

2013/2014 Lamp catalogue



Imagination at work

GE Innovation History



Nowadays GE Lighting has become one of the biggest lighting solution suppliers in the world.

About GE Lighting

GE Lighting invents with the vigor of its founder Thomas Edison to develop energy-efficient solutions that change the way people light their world in commercial, industrial, municipal and residential settings. The business employs over 16,000 people in more than 100 countries, and sells products under the Reveal and Energy Smart consumer brands, and Evolve, GTx, Immersion, Infusion, Lumination and Tetra commercial brands, all trademarks of GE. General Electric (NYSE: GE) works on things that matter to build a world that works better. For more information, visit <http://www.gelighting.com/LightingWeb/apac/>.



As a London 2012 Sustainability Partner and a Global Olympic 2012 sponsor, GE Lighting has worked alongside the London Organising Committee of the Olympic Games (LOCOG) to deliver a series of lighting projects.

To mark the Olympic Games and Paralympic Games GE Lighting has transformed London's iconic Tower Bridge with a new state-of-the-art lighting system – designed to enhance its architectural features and replace static lights with bulbs that can vary in intensity and colour, while at the same time cutting energy consumption considerably.

The famous landmark will also feature giant suspended Olympic Rings and Paralympic Agitos for the 45 days of the Games. GE will be illuminating the rings, as well as smaller versions in Belfast, Edinburgh and Cardiff using its powerful LED Floodlights and working in conjunction with all the major cities' councils to ensure that once again, the installations can be reused after the Olympic Games come to a close.

GE Lighting also has provided energy efficient, low impact lighting solutions for permanent as well as temporary lighting installations that will either continue to deliver energy savings for years to come or allow lamps to be re-used in projects around the city after the Olympic & Paralympic Games end in September 2012.



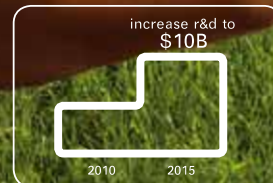
ecomaginationSM

ECOMAGINATION WORDING
MAKING RENEWABLE ENERGY A REALITY.

Ecomagination is a business initiative to help meet the world's demand for more energy-efficient products and to drive reliable growth for GE.
It's GE's commitment to invest in innovative solutions to environmental challenges, delivering valuable products and services to customers while generating profitable growth for the company.
Already, GE Lighting has produced over 800 products of Ecomagination, and that number will continue to grow with the introduction of new products in the future.

1. Continue to increase revenue from ecomagination products

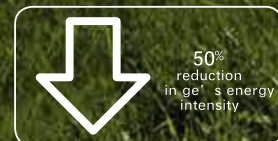
2. Double investment in R&D



3. Reduce greenhouse gas
emissions and improve
energy efficiency of GE

4. Reduce water use
and improve water reuse

5. Keep the public informed



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Toulouse



“Our products are proven to be matching the requirements that a modern city can ask for, from energy & maintenance cost savings to safer roads and emphasized aesthetics.”

—Phillippe Moreau,
Sales Manager of the project from GE Lighting

Situation:

- The city decided about the renovation of ~50,000 fittings (the project will be carried out in 4 different phases, lasting one year each)
- The key factors were: the initial investment should be low, the savings should be significant and the quality of light should improve residents' comfort

GE Lighting Solution:

- GE Lighting proposed the Lucalox XO Superlife and Streetwise lamps, each for a specific place
- The LongLife version of the Lucalox XO, the solution selected for roadways, it achieves a luminous efficiency of up to 150 lumens/watt
- The Streetwise is the solution selected for sidewalks and for accident black spots such as roundabouts and pedestrian crossings

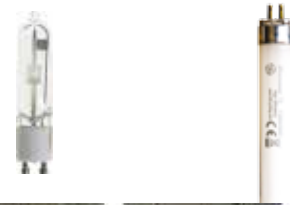
Operating Impact

- reducing consumption and maintenance costs
- reducing replacement expenses
- the significant reduction of maintenance costs easily covers the purchase cost

Environmental Impact

- greater lighting comfort
- the result has improved the social and functional environment without an increase in the wattage used

China Vanguard Supermarket



“GE’ s solution meets our lighting requirement while the energy saved is significant.”

—Mr. Liu, Senior Engineer, Sourcing Department,
China Vanguard supermarket

Situation:

- The previous T8 system in general lighting is energy costing and needs frequent maintenance. They require the new system to maintain the original lighting standard while achieve energy saving by 20%. They used local brand for signage, but want to have a better quality products to assure the lighting level, with lumen maintained to over 70% in 5 years.

GE Lighting Solution:

- GE proposed 2*28W T5 Starcoat system for shop lighting. GE T5 system achieved 22% energy saving and maintained illumination at 1000Lux and 85+ CRI. The LED signage increased the panel illumination by 20% while ensuring the ROI feasible in 3 years.

Operating Impact

- \$26,607 energy savings per year
- 2.3 Year simple project payback

Environmental Impact

- 0.33MM lbs per yr Co2 emissions eliminated
- =28.2 Cars off the road or
- = 40.3 acres of new trees

John Lewis



“By specifying GE Lighting’ s CMH Ultra range, we have significantly reduced energy consumption without compromising the look and feel of our stores.”

—Barry Ayling,
Lighting Design Manager at John Lewis Partnership

Situation:

- Replace the traditional light sources with more efficient and attractive products in John Lewis’ flagship store in Oxford Street, London as a first step in its country-wide refurbishment program.

GE Lighting Solution:

- GE Lighting’ s CMH Ultra range has been designed specifically for the retail environment, providing high efficiency, long life and superb overall lighting quality – ideal for enhancing retail displays and optimising merchandise illumination.

Operating Impact

- reduced energy consumption by over 50% while improving the look and feel of their stores

Environmental Impact

- Reduced energy consumption by 50%

Budapest Lighting



Situation:

- Aesthetics, safety and energy efficiency - GE is providing the right lighting solutions for the historic and forward-looking city of Budapest.

GE Lighting Solution:

- Hungarian Parliament glittering in its original magnificent blaze
- Széchenyi Chain Bridge: lighting system based on GE CFL (Compact Fluorescent Lamps) lamps that highlights the bridge’ s unique architecture
- Innovative lighting system along the banks of the Danube river based on GE’ s latest CMH StreetWise lamps
- Erzsébet Bridge: previous HPS light sources replaced by 250W GE CMH lamps

Operating Impact

- The greater efficiency and high lumen maintenance of GE’ s CMH lamps means the city now enjoys longer mean time between failures and significant savings in service costs.
- The LED system offers energy saving benefits of up to 40%.

Environmental Impact

- All the products used in the project increase road traffic safety and provide an energy efficient solution.

Halogen Lamps



GE invented the first halogen lamp in the world in 1958.



Halogen lamps – clean, bright, white light.
Invented in 1958 by GE, halogen lamps provide a compact, high output, crisp, white light that delivers superior colour reproduction.

By using halogen gas which allows the lamp to burn more brightly without sacrificing life, they are more efficient than incandescent lamps at converting electricity into light, therefore giving more light for less energy and from a smaller physical size.

Why halogen?

- Crisp white light (CCT 2800K+)
- Excellent colour rendering, light close to natural (100% CRI)
- Long lasting bright light – more than 90% lumen maintenance
- Instant (re-)start – full light output immediately after switch on
- Dimmable
- Environmentally friendly technology – mercury and lead free, no electromagnetic emission

Popular for accent, display and general lighting applications in a wide variety of commercial, industrial and residential environments.



Premium performance product alternatives for more efficient lighting

For Energy Saving

MR16 → upgrade to → Precise MR16 IR

Infra Red MR16 – Energy Saving solution

- Up to 40% energy saving
- 5,000 hours life
- Premium quality light
- Replacement for standard MR16 lamp

Base Watt	New MR16 IR Watt	Saved Watt	Saved Energy Cost through total life
35W	20W	15W	7,5 EUR
50W	35W	15W	7,5 EUR
~65W	45W	20W	~10 EUR

For Energy Saving

Standard Double Ended Linear 150, 200, 300 and 500W → upgrade to → C energy class Double Ended Linear 100, 130, 200 and 330W

C class Double Ended Linear

- Increased efficiency – C energy class
- More than 30% energy saving
- Retrofit to standard Double Ended Linear
- Full range 100-330W to replace 150-500W standard range

Base Watt	New Watt	Saved Watt	Saved Energy Cost / 1000hrs
150W	100W	50W	5 EUR
200W	130W	70W	7 EUR
300W	200W	100W	10 EUR
500W	330W	170W	17 EUR

For Energy Saving

Incandescent → upgrade to → Halogen

The 'new incandescent' lamps

- Exactly same size and appearance as an incandescent lamp
- Provides full light strength at start-up
- 30% energy saving
- Dimmable

- 2,000 hours life
- Environmentally friendly – mercury and lead free
- Excellent colour rendering, light close to natural (100% CRI)
- More than 90% lumen maintenance over life

Base Watt	New Watt	25W	40W	60W	100W
25W	18W	No	Yes	Yes	No
40W	28W	Yes	Yes	Yes	Yes
60W	42W	Yes	Yes	Yes	Yes
100W	75W	Yes	No	No	Yes
150W	100W	Yes	No	No	No

Precise ConstantColor MR16 IR

Energy efficient low voltage dichroic mirror halogen reflector lamps from GE

GE halogen IR (infrared) range of low voltage reflector lamps provide up to 43% energy savings over conventional MR16 lamps and – with the addition of the patented GE reflector coating technology – unparalleled colour rendering throughout life.

Available in two versions, the high performance MR16 ConstantColor IR offers low energy use, superior lumen and color maintenance, while the MR16 IR delivers savings using a standard dichroic reflector.

Halogen-IR Technology?

The Precise IR halogen capsule has multiple layers of very durable, thin, interference film which redirects heat, which would otherwise be wasted, back onto the lamp filament. This increases the filament temperature and allows it to give off more visible light for the same input power.



GE ConstantColor halogen lamps have a unique glass reflector coating technology that provide consistent colour performance throughout their rated life.

Conventional MR16 halogen lamps utilize reflector coating that is gradually degraded by the heat emitted by the filament. Unlike any other product on the market, the GE ConstantColor MR16 IR lamp coated with durable titania and silica oxides withstand temperatures of 500°C without a change in reflector qualities. The result is close to 90% maintained light output over life and identical colour temperature from lamp to lamp. With coating applied to both inside and outside the reflector, wasted backlight is virtually eliminated.



The benefits of Precise ConstantColor IR

- Up to 43% energy savings compared to standard products
- Cool beam
- Long 5000 hour life, 2.5x longer than standard MR16's
- Eliminates backlight
- Long-term reliability
- Precise optical control
- Close to 90% lumen maintenance
- Evenly lit surfaces
- Environmentally friendly technology
 - UV control
 - Mercury free
 - Can be disposed with household waste

Energy efficient halogen solutions from GE

Familiar shape and light

GE's Energy Efficient Halogen (EEH) range is a direct replacement for regular incandescent lamps offering a crisp white light with 30% energy saving and similar lumens.

Available in standard GLS, candle, spherical and reflector shapes, GE EEH lamps are the environmentally friendly solution for those who prefer the features and light quality associated with incandescent bulbs.

- Last twice as long and consume 30% less electricity than corresponding incandescent lamps.
- Provide instant-on, full light output at start-up and lumens are maintained throughout the life of the product.
- Unlike some compact fluorescent products, EEH lamps are size 100% retrofit with the incandescent lamps they replace.
- Can be used with dimming switches.
- Environmentally friendly with no lead or mercury.



			I	I	I	U
	Standard GLS	HaloGLS				
	40W	28W D			•	•
	60W	42W C			•	•
	100W	70W C			•	•
	150W	100W C			•	•
	Standard Candle	HaloCandle				
	25W	18W D		•	•	
	40W	28W D	•	•	•	•
	60W	42W C	•	•	•	•
	Standard Spherical	HaloSpherical				
	25W	18W D		•	•	•
	40W	28W D	•	•	•	•
	60W	42W C		•	•	•
	Standard R50	HaloR50				
	40W	28W		•		
	Standard R63	HaloR63				
	60W	42W				•
	Standard R80	HaloR80				
	60W	42W				•
	100W	70W				•



MR 11 Low Voltage

Standard

Cap: GU4
Wattages: 12-35W
Volts: 12
Beam Spread: 8-26°
Front: Open or Closed
Life: 3,500Hrs
Page: 15

Start

Cap: GU4
Wattages: 20-35W
Volts: 12
Beam Spread: 26°
Front: Closed
Life: 2,000Hrs
Page: 15

MR 16 Low Voltage

MR16 IR

Cap: GU5.3
Wattages: 20-45W
Volts: 12
Beam Spread: 10-36°
Life (hrs): 5,000Hrs
Page: 15

Precise ConstantColor

Cap: GU5.3
Wattages: 20-71W
Volts: 12
Beam Spread: 12-55°
Feature: Consistent light quality and exceptional long life
Life: 4,000-6,000Hrs
Page: 15

Precise Bright

Cap: GU5.3
Wattages: 20-50W
Volts: 12
Beam Spread: 18-60°
Feature: Outstanding light output in a mid range lamp
Life: 5,000Hrs
Page: 16

Start

Cap: GU5.3
Wattages: 20-50W
Volts: 12
Beam Spread: 12-55°
Feature: Budget lamp with reliable GE quality
Life: 2,000Hrs
Page: 16

Alutech

Cap: GU5.3
Wattages: 20-50W
Volts: 12
Beam Spread: 36-60°
Feature: For heat sensitive halogen fixtures
Life: 3,000Hrs
Page: 17

AR111 Aluminium Reflector

Standard

Cap: G53
Wattages: 35-100W
Volts: 12
Beam Spread: 8-45°
Life: 3,000Hrs
Page: 17

MR 16 & MR 20 Mains Voltage GU10 Cap

Alutech

Cap: GU10
Wattages: 20-50W
Volts: 230-240
Beam Spread: 36°
Life: Up to 3,000Hrs
Page: 17

Coloured

Cap: GU10
Wattages: 50W
Volts: 240
Beam Spread: 36°
Finish: Red, Yellow or Blue
Life: 1,500Hrs
Page: 18

G9 Mains Voltage

Clear

Cap: G9
Wattages: 25-75W
Life: 1,500-3,000Hrs
Page: 18

Single Ended Halogen Capsules

Transversal and Axial Filament

Cap: G4 or GY6.35
Wattages: 5-100W
Life: up to 4,000Hrs
Page: 18

Low Pressure

Cap: G4 or GY6.35
Wattages: 10-75W
Life: 2,000Hrs
Page: 19

Start

Cap: G4 or GY6.35
Wattages: 10-100W
Life: 1,000Hrs
Page: 19

Double Ended Linear

Energy Saver

Cap: R7s
Wattages: 100-330W
Life: 1,000Hrs
Page: 19

IR

Cap: R7s
Wattages: 225-375W
Life: 2,000Hrs
Page: 19

Standard and Start

Cap: R7s
Wattages: 60-2000W
Life: 1,000-2,000Hrs
Page: 20

PAR 16, 20, 25, 30

PAR 16

Cap: E14
Wattages: 40W
Life: 2,000Hrs
Page: 20

PAR 20

Cap: E27
Wattages: 50W
Beam Choice: Spot or Flood
Life: 2,000Hrs
Page: 20

PAR 25

Cap: E27
Wattages: 75W
Beam Choice: Flood
Life: 3,000Hrs
Page: 20

PAR 30

Cap: E27
Wattages: 75-100W
Beam Choice: Spot or Flood
Life: 2,000-3,000Hrs
Page: 20

Energy Efficient Halogen Incandescent Shapes

HaloGLS

Cap: E27, B22
Wattages: 28-100W
Life: 2,000Hrs
Page: 21

HaloCandle

Cap: E14, E27, B15, B22
Wattages: 18-42W
Life: 2,000Hrs
Page: 22

HaloSpherical

Cap: E14, B15, E27, B22
Wattages: 18-42W
Life: 2,000Hrs
Page: 22

HaloReflector

Cap: E14, E27
Wattages: 28-70W
Life: 2,000Hrs
Page: 22

Product identification

The following glossary of terms will help you when selecting lamps in this section. Within each product line, lamps are divided into families – within these families, lamps are listed by wattage. The Product Description can be used as a quick reference to each product’s attributes. Where Life or Average Life are stated we refer to the industry standard definition of how many hours of operation 50% of a given installation will exceed.

Additional parameters:
Lumens: Light output
EEC: Energy Efficiency Class

Product description:
The lamp's identification code

Watts:
Energy Used – Nominal Watts. To estimate energy consumption (kWh), multiply watts x hours of use and divide by 1000

Cap:
The type of cap fitted. See page 134-135 for cap drawings

Peak Beam Candelas:
For reflector type lamps. Luminous intensity of the lamp beam expressed in candelas

CCT (K): Colour Temperature - Kelvins:
A measure of the visual "warmth" or "coolness" of the light from the lamp. The higher the value the whiter or "cooler" the light appears

Diameter:
Bulb diameter in mm

Pack quantity:
Number of product units packed in a case

Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Candela [cd]	Beam Angle [°]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
Precise MR11 - Open											
19626	M62/FTD	20	12	GU4	550	26	2900	3,500	35.3	40	10
19635	M66/FTF	35	12	GU4	2300	21	2900	3,500	35.3	40	10
19634	M199/FTH	35	12	GU4	1300	26	2900	3,500	35.3	40	10

Product code:
It is important to use this code when ordering to ensure that you receive the exact product you require

FTD - ANSI code
Industry code specifying lamps type defined by the American National Standard Institute

Volts:
Lamp data is based on operation at rated voltage

Life:
The point in time when 50% of installed lamps are still burning

Beam Spread Degrees:
For reflector type lamps. The angle of the cone of light produced by a reflector lamp at 50% of its intensity

Length:
Lamp length in mm

Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Candela [cd]	Beam Angle [°]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]
Precise MR11 - Open										
19626	M62/FTD	20	12	GU4	550	26	2900	3,500	35	40
19635	M66/FTF	35	12	GU4	2300	21	2900	3,500	35	40
19634	M199/FTH	35	12	GU4	1300	26	2900	3,500	35	40
Precise MR11 - Closed										
19639	M264/FTA/CG	12	12	GU4	3960	8	2900	2,000	35	45
19636	M251/FTC/CG	20	12	GU4	1800	17	2900	3,500	35	45
19625	M262/FTD/CG	20	12	GU4	490	26	2900	3,500	35	45
19627	M266/FTF/CG	35	12	GU4	2070	21	2900	3,500	35	45
MR11 Start - Closed										
17200	FTD/M262/CG	20	12	GU4	490	26	2900	2,000	35	40
17201	FTF/M199/CG	35	12	GU4	1150	26	2900	2,000	35	40
Precise ConstantColor MR16 IR										
77900	Q20MR16HIR/CCG10	20	12	GU5.3	6000	10	2900	5000	51	51
77901	Q20MR16HIR/CCG24	20	12	GU5.3	2300	24	2900	5000	51	51
77902	Q20MR16HIR/CCG36	20	12	GU5.3	1000	36	2900	5000	51	51
79584	Q30MR16HIR/CCG10	30	12	GU5.3	10000	10	2950	5000	51	51
79585	Q30MR16HIR/CCG24	30	12	GU5.3	3350	24	2950	5000	51	51
79586	Q30MR16HIR/CCG36	30	12	GU5.3	1600	36	2950	5000	51	51
77904	Q35MR16HIR/CCG10	35	12	GU5.3	12000	10	2950	5000	51	51
77905	Q35MR16HIR/CCG24	35	12	GU5.3	4200	24	2950	5000	51	51
77906	Q35MR16HIR/CCG36	35	12	GU5.3	2000	36	2950	5000	51	51
77907	Q45MR16HIR/CCG10	45	12	GU5.3	14000	10	3000	5000	51	51
77908	Q45MR16HIR/CCG24	45	12	GU5.3	5200	24	3000	5000	51	51
77909	Q45MR16HIR/CCG36	45	12	GU5.3	2300	36	3000	5000	51	51
Precise MR16 IR										
77657	MR16 IR 20W 12V WFL	20	12	GU5.3	1000	36	2900	5,000	51	51
77658	MR16 IR 35W 12V WFL	35	12	GU5.3	2000	36	2950	5,000	51	51
Precise ConstantColor MR16 - Open										
20841	EYJ/CC	71	12	GU5.3	5500	25	3000	4,000	51	46
20840	EYC/CC	71	12	GU5.3	2000	42	3000	4,000	51	46
Precise ConstantColor MR16 - Closed										
20858	ESX/CG	20	12	GU5.3	3150	15	3000	5,000	51	51
20857	BAB/CG	20	12	GU5.3	475	40	3000	5,000	51	51
20864	FRB/CG	35	12	GU5.3	7500	12	3000	5,000	51	51
20860	FRA/CG	35	12	GU5.3	3200	20	3000	5,000	51	51
20859	FMW/CG	35	12	GU5.3	900	40	3000	5,000	51	51
20872	EXT/CG	50	12	GU5.3	8400	15	3000	6,000	51	51
20871	EXZ/CG	50	12	GU5.3	2900	25	3000	6,000	51	51
20867	EXN/CG	50	12	GU5.3	1500	40	3000	6,000	51	51
20865	FNV/CG	50	12	GU5.3	850	55	3000	6,000	51	51
20876	EYF/CG	71	12	GU5.3	10400	15	3000	4,000	51	51
20874	EYJ/CG	71	12	GU5.3	4550	25	3000	4,000	51	51
20873	EYC/CG	71	12	GU5.3	2000	40	3000	4,000	51	51

Halogen Lamps



Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Candela [cd]	Beam Angle [°]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]
Precise Bright 5000 MR16 - Open										
88231	M69/BAB	20	12	GU5.3	480	36	2900	5,000	51	46
88229	M81/FMW	35	12	GU5.3	1390	36	2900	5,000	51	46
88234	M58/EXN	50	12	GU5.3	2250	36	2900	5,000	51	46
88232	M80/FNV	50	12	GU5.3	1070	60	2900	5,000	51	46

PrecisePlus MR16 (5000hr) - Open

71624	MR16 12V 20W 8D /open 5000 hours	20	12	GU5.3	4280	8	2800	5,000	50	48
71625	MR16 12V 20W 36D /BAB /open 5000 hours	20	12	GU5.3	480	36	2800	5,000	50	48
71618	MR16 12V 50W 8D /open 5000 hours	50	12	GU5.3	8560	8	3000	5,000	50	48
71619	MR16 12V 50W 18D /open 5000 hours	50	12	GU5.3	5080	18	3000	5,000	50	48
71620	MR16 12V 50W 36D /ENX /open 5000 hours	50	12	GU5.3	2250	36	3000	5,000	50	48
71621	MR16 12V 50W 60D /FNV /open 5000 hours	50	12	GU5.3	1070	60	3000	5,000	50	48

PrecisePlus MR16 (5000hr) - Closed

71616	MR16 12V 20W 8D /CG 5000 hours	20	12	GU5.3	4000	8	2800	5,000	50	48
71617	MR16 12V 20W 36D /BAB /CG 5000 hours	20	12	GU5.3	450	36	2800	5,000	50	48
71610	MR16 12V 50W 8D /CG 5000 hours	50	12	GU5.3	8000	8	3000	5,000	50	48
71611	MR16 12V 50W 18D /CG 5000 hours	50	12	GU5.3	4750	18	3000	5,000	50	48
71612	MR16 12V 50W 36D /ENX /CG 5000 hours	50	12	GU5.3	2100	36	3000	5,000	50	48
71613	MR16 12V 50W 60D /FNV /CG 5000 hours	50	12	GU5.3	1000	60	3000	5,000	50	48

Precise Bright 5000 MR16 - Closed

88235	M269/BAB/CG	20	12	GU5.3	450	36	2900	5,000	51	51
88236	M281/FMW/CG	35	12	GU5.3	1300	36	2900	5,000	51	51
88237	M250/EXZ/CG	50	12	GU5.3	4750	18	2900	5,000	51	51
88239	M258/EXN/CG	50	12	GU5.3	2100	36	2900	5,000	51	51
88238	M280/FNV/CG	50	12	GU5.3	950	60	2900	5,000	51	51

MR16 Start - Open

38000	M69/BAB/EC	20	12	GU5.3	500	36	2900	2,000	51	48
38001	M81/FMW/EC	35	12	GU5.3	925	36	2900	2,000	51	48
38002	M58/EXN/EC	50	12	GU5.3	1500	36	2900	2,000	51	48
89677	Q20MR16/FL	20	12	GU5.3	500	36	2900	1,000	50	48
89678	Q20MR16/SP	20	12	GU5.3	3500	12	2900	1,000	50	48
89679	Q35MR16/FL	35	12	GU5.3	925	36	2900	1,000	50	48
89680	Q35MR16/M(FMV)	35	12	GU5.3	1950	24	2900	1,000	50	48
89681	Q50MR16/FL	50	12	GU5.3	1500	36	3000	1,000	50	48
89682	Q50MR16/M	50	12	GU5.3	3000	24	3000	1,000	50	48

Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Candela [cd]	Beam Angle [°]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]
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MR16 Start - Closed

38012	M268/ESX/CG/EC	20	12	GU5.3	3150	12	2900	2,000	51	51
38006	M269/BAB/CG/EC	20	12	GU5.3	450	36	2900	2,000	51	51
38013	FRB/CG/EC	35	12	GU5.3	6750	12	2900	2,000	51	51
38007	M281/FMW/CG/EC	35	12	GU5.3	830	36	2900	2,000	51	51

38014	M249/EXT/CG/EC	50	12	GU5.3	8550	12	2900	2,000	51	51
39611	M250/EXZ/CG/EC	50	12	GU5.3	2700	24	2900	2,000	51	51
38011	M258/EXN/CG/EC	50	12	GU5.3	1350	36	2900	2,000	51	51
39236	M280/FNV/CG/EC	50	12	GU5.3	630	55	2900	2,000	51	51
89683	Q20MR16/FL/CG	20	12	GU5.3	450	36	2800	1,000	50	48
89684	Q20MR16/SP/CG	20	12	GU5.3	3500	12	2800	1,000	50	48
89685	Q35MR16/FL/CG	35	12	GU5.3	832	36	2900	1,000	50	48
89686	Q35MR16/M(FMV) CG	35	12	GU5.3	1750	24	2900	1,000	50	48
89687	Q50MR16/FL/CG	50	12	GU5.3	1350	36	3000	1,000	50	48
89688	Q50MR16/M/CG	50	12	GU5.3	2700	24	3000	1,000	50	48

Precise Alutech MR16 - Closed

88216	M269/BAB/CG/AL	20	12	GU5.3	450	36	2900	3,000	51	51
88217	M281/FMW/CG/AL	35	12	GU5.3	1300	36	2900	3,000	51	51
88215	M258/EXN/CG/AL	50	12	GU5.3	1800	36	2900	3,000	51	51
88214	M280/FNV/CG/AL	50	12	GU5.3	700	60	2900	3,000	51	51

AR111 - Low Pressure Capsule With Aluminium Reflector

10774	AR111 35W12V SP	35	12	G53	14000	8	2900	2,000	111	67
10775	AR111 35W12V FL	35	12	G53	2500	24	2900	2,000	111	67
10766	AR111 50W12V SP	50	12	G53	17800	8	2900	3,000	111	67
10767	AR111 50W12V FL	50	12	G53	3500	24	2900	3,000	111	67
10768	AR111 75W12V SP	75	12	G53	23500	8	2900	3,000	111	67
10769	AR111 75W12V FL	75	12	G53	5300	24	2900	3,000	111	67
10771	AR111 75W12V WFL	75	12	G53	1700	45	2900	3,000	111	67
41915	AR111 100W12V SP	100	12	G53	40000	8	2900	3,000	111	67
41922	AR111 100W12V FL	100	12	G53	8000	24	2900	3,000	111	67
41923	AR111 100W12V WFL	100	12	G53	2300	45	2900	3,000	111	67
25152	AR111 50W 12V SP	50	12	G53	17800	8	2900	3,000	111	67
25154	AR111 50W 12V FL	50	12	G53	3500	24	2900	3,000	111	67
25155	AR111 75W 12V SP	75	12	G53	23500	8	2900	3,000	111	67
25156	AR111 75W 12V FL	75	12	G53	5300	24	2900	3,000	111	67
25157	AR111 75W 12V WFL	75	12	G53	1700	45	2900	3,000	111	67

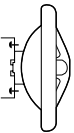
Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Candela [cd]	Beam Angle [°]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]
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MR16 Mains Alutech Long Life

40402	Q50MR16/230/25°	50	230	GU10	950	25	2800	3,000	51	55
40403	Q50MR16/230/36°	50	230	GU10	600	36	2800	3,000	51	55
40404	Q50MR16/240/25°	50	240	GU10	950	25	2800	3,000	51	55
40405	Q50MR16/240/36°	50	240	GU10	600	36	2800	3,000	51	55

MR16 Mains Alutech

10898	Q20MR16/230/FL	20	230	GU10	200	36	2700	1,500	51	55
10896	Q35MR16/230/FL	35	230	GU10	400	36	2700	1,500	51	55
92729	Q50MR16/230/FL	50	230	GU10	600	36	2700	1,500	51	55
10859	Q20MR16/240/FL	20	240	GU10	200	36	2700	1,500	51	55
10857	Q35MR16/240/FL	35	240	GU10	400	36	2700	1,500	51	55
92730	Q50MR16/240/FL	50	240	GU10	600	36	2700	1,500	51	55



Halogen Lamps



Product Code	Product Description	Colour	Wattage [W]	Volts [V]	Cap	Candela [cd]	Beam Angle [°]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]
MR16 Mains Alutech - Coloured											
12988	Q50MR16/240/FL START	Red	50	240	GU10	600	36	2700	1,500	51	55
12995	Q50MR16/240/FL START	Blue	50	240	GU10	600	36	2700	1,500	51	55
13003	Q50MR16/240/FL START	Yellow	50	240	GU10	600	36	2700	1,500	51	55



Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Lumen [lm]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]
Single ended mains voltage capsule short G9 - Clear									
45692	SHORTG9 25W CL 230V	25	230	G9	260	2800	1,500	13	43
22504	SHORTG9 40W CL 230V	40	230	G9	460	2800	3,000	13	43
88941	SHORTG9 25W CL 240V	25	240	G9	260	2800	1,500	13	43
22498	SHORTG9 40W CL 240V	40	240	G9	460	2800	3,000	13	43
75979	OT SHORTG9 25W CL 240V GE HFBL2/20 TRAY	25	240	G9	255	2650	2,000	12.5	41.8
88305	OT SHORTG9 40W CL 240V GE HFBL2/20 TRAY	40	240	G9	470	2700	2,000	12.5	42.8
75980	OT SHORTG9 60W CL 240V GE HFBL2/20 TRAY	60	240	G9	790	2700	1,500	12.5	44.8
75983	OT SHORTG9 75W CL 240V GE HFBL2/20 TRAY	75	240	G9	1040	2750	1,500	12.5	44.8

Single ended mains voltage capsule short G9 - frosted

88311	OT SHORTG9 25W FR 240V GE HFBL2/20 TRAY	25	240	G9	240	2600	1,500	12.5	41.8
88307	OT SHORTG9 40W FR 240V GE HFBL2/20 TRAY	40	240	G9	425	2700	1,500	12.5	42.8
75982	OT SHORTG9 60W FR 240V GE HFBL2/20 TRAY	60	240	G9	730	2700	1,500	12.5	44.8
75984	OT SHORTG9 75W FR 240V GE HFBL2/20 TRAY	75	240	G9	965	2700	1,500	12.5	44.8



Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Lumen [lm]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]
Single ended low voltage capsule - Transversal Filament									
34720	M29/Q10 G4	10	6	G4	200	2800	100	9	33
34718	M30/ESB/Q20 G4	20	6	G4	450	2900	100	9	33
34719	M34/FHE/Q20 G4	20	6	G4	350	2900	2,000	9	33
42959	M9/H5 G4	5	12	G4	60	2800	2,000	9	33
34674	M11/H10 G4	10	12	G4	140	2800	2,000	9	33
34714	M35/Q20 G4	20	12	G4	400	2900	250	9	33
34715	M47/Q20 G4	20	12	G4	380	2900	2,000	9	33
34708	M95/Q35/GY6.35	35	12	GY6.35	550	2900	3,000	11	44
34702	M32/Q50 GY6.35	50	12	GY6.35	930	2900	4,000	11	44
34682	M313/Q75/GY6.35	75	12	GY6.35	1350	2900	2,000	11	44
34676	M28/Q100 GY6.35	100	12	GY6.35	2200	2900	3,000	11	44
34663	M67/Q100 GY6.35 24V	100	24	GY6.35	2000	2900	2,000	11	44

Single ended low voltage capsule - Axial Filament

34728	M42/Q10 G4	10	6	G4	140	2800	2,000	9	33
34712	M76/Q20/GY6.35	20	12	GY6.35	300	2900	3,000	11	44
34710	M75/Q35/GY6.35	35	12	GY6.35	600	2900	4,000	11	44
34703	M74/Q50/GY6.35	50	12	GY6.35	900	2900	4,000	11	44
34683	M73/Q75/GY6.35	75	12	GY6.35	1350	2900	4,000	11	44
34664	M180/Q100/GY6.35	100	12	GY6.35	2150	2900	4,000	11	44



Single ended low voltage capsule - Low Pressure, Axial Filament

35705	Q10T2,5/12V G4	10	12	G4	140	2800	2,000	9	33
35710	Q20T2,5/12V G4	20	12	G4	320	2900	2,000	9	33
35696	Q20T3/12V GY6.35	20	12	GY6.35	300	2900	2,000	11	44
35699	Q35T3/12V GY6.35	35	12	GY6.35	600	2900	2,000	11	44
35700	Q50T3/12V GY6.35	50	12	GY6.35	900	2900	2,000	11	44
35701	Q75T3/12V GY6.35	75	12	GY6.35	1350	2900	2,000	11	44



Single ended low voltage capsule Start - Transversal Filament

12708	M11/Q10/G4 ST	10	12	G4	100	2800	1,000	10	33
12711	M47/Q20/G4 ST	20	12	G4	250	2900	1,000	10	33
12712	M95/Q35/GY6.35 ST	35	12	GY6.35	480	2900	1,000	11	44
12713	M32/Q50/GY6.35 ST	50	12	GY6.35	800	2900	1,000	11	44
12718	Q100/GY6.35 ST	100	12	GY6.35	1950	2900	1,000	11	44



Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Lumen [lm]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	EEC
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Double ended linear Halogen Energy Saver

76210	K12 C100W 230V R7S	100	230	R7s	1900	2800	1,000	8	78	C
76209	K11 C130W 230V R7S	130	230	R7s	2440	2800	1,000	8	117.6	C
76208	K9 C200W 230V R7S	200	230	R7s	4000	2800	1,000	8	117.6	C
76207	K1 C330W 230V R7S	330	230	R7s	7400	2800	1,000	8	117.6	C
76530	K12 C100W 240V R7S	100	240	R7s	1900	2800	1,000	8	78	C
76529	K11 C130W 240V R7S	130	240	R7s	2440	2800	1,000	8	117.6	C
76528	K9 C200W 240V R7S	200	240	R7s	4000	2800	1,000	8	117.6	C
76527	K1 C330W 240V R7S	330	240	R7s	7400	2800	1,000	8	117.6	C



Double ended linear Halogen IR

91515	K9/Q225 T3/230V HIR	225	230	R7s	5000	3000	2,000	10	117.6	C
31598	K1/Q375 T3/230V HIR	375	230	R7s	9400	3000	2,000	10	117.6	C
43299	K9/Q225 T3/240V HIR	225	240	R7s	5000	3000	2,000	10	117.6	C
31612	K1/Q375 T3/240V HIR	375	240	R7s	9400	3000	2,000	10	117.6	C



Halogen Lamps

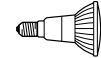


Double ended linear Halogen

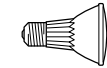
29161	K1/Q500 T2.5/CL	500	120	R7s	11000	2900	2,000	8	117.6	C
29165	K1/Q500 T2.5/CL	500	230	R7s	9800	2900	2,000	8	117.6	D
29180	K4/Q1000 T3/CL	1000	230	R7s	21000	2900	2,000	10	189.1	N/A
29184	K5/Q1500 T3/CL	1500	230	R7s	32000	2900	1,000	10	254.1	N/A
30886	K8/Q2000 T3/CL	2000	230	R7s	44000	2900	1,000	10	330.8	N/A
29168	K1/Q500 T2.5/CL	500	240	R7s	9800	2900	2,000	8	117.6	D
29181	K4/Q1000 T3/CL	1000	240	R7s	21000	2900	2,000	10	189.1	N/A
43712	K10/1000 T3/CL	1000	240	R7s	21000	2900	2,000	10	254.1	N/A
23830	K5/Q1500 T3/CL	1500	240	R7s	33000	2900	1,000	10	254.1	N/A
29187	K5/Q1500 T3/CL	1500	240	R7s	32000	2900	1,000	10	254.1	N/A
23832	K5/Q1500 T3/CL	1500	277	R7s	33000	2900	2,000	10	254.1	N/A



Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Lumen [lm]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]
HaloTubular T38									
32108	Halo T38/1000W/E40/230	1000	230	E40	21000	2900	2,000	38	280
32109	Halo T38/1000W/E40/240	1000	240	E40	21000	2900	2,000	38	280



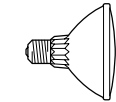
Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Candela [cd]	Beam Angle [°]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]
Halogen PAR 16										
27826	40PAR16/230/FL	40	230	E14	950	25	2800	2,000	51	79
27845	40PAR16/240/FL	40	240	E14	950	25	2800	2,000	51	79



Halogen PAR 20										
40363	50PAR20/230/SP	50	230	E27	3000	10	2800	2,000	64.5	91
40362	50PAR20/230/FL	50	230	E27	1000	25	2800	2,000	64.5	91
40364	50PAR20/240/SP	50	240	E27	3000	10	2800	2,000	64.5	91
40365	50PAR20/240/FL	50	240	E27	1000	25	2800	2,000	64.5	91
95700	50PAR20 FL-230V	50	230	E27	1000	25	2650	2,100	65	85
95701	50PAR20 SP-230V	50	230	E27	2200	10	2650	2,100	65	85
95775	50PAR20/240/SP	50	240	E27	1000	10	2600	2,100	65	85
95776	50PAR20/240/FL	50	240	E27	2200	25	2600	2,100	65	85



Halogen PAR 25										
91775	75PAR25/230/FL	75	230	E27	1300	25	2800	3,000	81	108
92165	75PAR25/240/FL	75	240	E27	1300	25	2800	3,000	81	108



Halogen PAR 30										
40366	75PAR30/230/SP	75	230	E27	6200	10	2800	2,000	97	90.5
40349	75PAR30/230/FL	75	230	E27	2000	30	2800	2,000	97	90.5
32484	100PAR30/230/FL	100	230	E27	3100	30	2800	3,000	97	90.5
40367	75PAR30/240/SP	75	240	E27	6200	10	2800	2,000	97	90.5
40361	75PAR30/240/FL	75	240	E27	2000	30	2800	2,000	97	90.5
32482	100PAR30/240/FL	100	240	E27	3100	30	2800	3,000	97	90.5
95702	75PAR30 FL-230V	75	230	E27	1400	30	2700	3,000	97	93
95703	75PAR30 SP-230V	75	230	E27	5800	10	2700	3,000	97	93

95777	75PAR30/240/SP	75	240	E27	5800	10	2700	3,000	97	93
95778	75PAR30/240/FL	75	240	E27	1400	30	2700	3,000	97	93
95779	100PAR30/240/SP	100	240	E27	8500	10	2750	2,100	97	93
95780	100PAR30/240/FL	100	240	E27	2100	30	2750	2,100	97	93

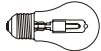
Halogen PAR 30 HIR

10302	50PAR30/110/K9N	50	110	E26NP	12000	-	2800	3,000	95	88
10301	50PAR30/110/K9N	50	110	E26NP	2800	-	2800	3,000	95	88

Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Lumen [lm]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	EEC
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Energy Efficient HaloGLS

76957	28W HALO A CL E27 230V	28	230	E27	340	2900	2,000	50	96	D
76953	42W HALO A CL E27 230V	42	230	E27	630	2900	2,000	50	96	C
76948	70W HALO A CL E27 230V	70	230	E27	1300	2900	2,000	50	96	C
76944	100W HALO A CL E27 230V	100	230	E27	1800	2900	2,000	50	104	C
76954	28W HALO A CL E27 240V	28	240	E27	340	2900	2,000	50	96	D
76950	42W HALO A CL E27 240V	42	240	E27	630	2900	2,000	50	96	C
76945	70W HALO A CL E27 240V	70	240	E27	1300	2900	2,000	50	96	C
76941	100W HALO A CL E27 240V	100	240	E27	1800	2900	2,000	50	104	C
76955	28W HALO A CL B22 240V	28	240	B22	340	2900	2,000	50	96	D
76951	42W HALO A CL B22 240V	42	240	B22	630	2900	2,000	50	96	C
76946	70W HALO A CL B22 240V	70	240	B22	1300	2900	2,000	50	96	C
76942	100W HALO A CL B22 240V	100	240	B22	1800	2900	2,000	50	104	C



Product Code	Product Description	Wattage [W]	Volts [V]	MOL [in]	Lumen [lm]	Life [h]	Warning and Caution Notices	Additional Information
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A-19

78795	29A/CL/H-2PK	29	120	4.43	310	1000	1a, 2a, 2b, 2c, 2e, 4i, 4j, 9a, 10b, 10c	Clear, Halogen
78796	43A/CL/H-2PK	43	120	4.43	750	1000	1a, 2a, 2b, 2c, 2e, 4i, 4j, 9a, 10b, 10c	Clear, Halogen
78797	53A/CL/H-2PK	53	120	4.43	1050	1000	1a, 2a, 2b, 2c, 2e, 4i, 4j, 9a, 10b, 10c	Clear, Halogen
82137	60A/CL/H/RVL-CD	60	120	4.43	675	3000	1a, 2a, 2b, 2c, 2e, 4i, 4j, 9a, 10b, 10c	Reveal Clear, Halogen, Carded
72373	60A/CRY/H/RVL-CD	60	120	4.43	800	3000	1a, 2a, 2b, 2c, 2e, 4i, 4j, 9a, 10b, 10c	Reveal Crystal, Halogen, Carded
78798	72A/CL/H-2PK	72	120	4.43	1490	1000	1a, 2a, 2b, 2c, 2e, 4i, 4j, 9a, 10b, 10c	Clear, Halogen
82138	75A/CL/H/RVL-CD	75	120	4.43	850	3000	1a, 2a, 2b, 2c, 2e, 4i, 4j, 9a, 10b, 10c	Reveal Clear, Halogen, Carded
82139	100A/CL/H/RVL-CD	100	120	4.43	1275	3000	1a, 2a, 2b, 2c, 2e, 4i, 4j, 9a, 10b, 10c	Reveal Clear, Halogen, Carded
72374	100A/CRY/H/RVL-CD	100	120	4.43	140	3000	1a, 2a, 2b, 2c, 2e, 4i, 4j, 9a, 10b, 10c	Reveal Crystal, Halogen, Carded

Halogen Lamps

Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Lumen [lm]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	EEC
Energy Efficient HaloCandle										
98402	20W HALO C CL E14 230V	20	230	E14	235	2900	2,000	36	100	D
98398	30W HALO C CL E14 230V	30	230	E14	405	2900	2,000	36	100	D
76575	42W HALO C CL E14 230V	42	230	E14	630	2900	2,000	36	100	C
98396	30W HALO C CL E27 230V	30	230	E27	405	2900	2,000	36	100	D
76573	42W HALO C CL E27 230V	42	230	E27	630	2900	2,000	36	100	C
98399	20W HALO C CL E14 240V	20	240	E14	235	2900	2,000	36	100	D
98392	30W HALO C CL E14 240V	30	240	E14	405	2900	2,000	36	100	D
76569	42W HALO C CL E14 240V	42	240	E14	630	2900	2,000	36	100	C
98391	30W HALO C CL E27 240V	30	240	E27	405	2900	2,000	36	100	D
76568	42W HALO C CL E27 240V	42	240	E27	630	2900	2,000	36	100	C
98394	30W HALO C CL B15 240V	30	240	B15	405	2900	2,000	36	100	D
76571	42W HALO C CL B15 240V	42	240	B15	630	2900	2,000	36	100	C
98400	20W HALO C CL B22 240V	20	240	B22	235	2900	2,000	36	100	D
98393	30W HALO C CL B22 240V	30	240	B22	405	2900	2,000	36	100	D
76570	42W HALO C CL B22 240V	42	240	B22	630	2900	2,000	36	100	C
Energy Efficient HaloSpherical										
98390	20W HALO S CL E14 230V	20	230	E14	235	2900	2,000	45	78	D
98384	30W HALO S CL E14 230V	30	230	E14	405	2900	2,000	45	78	D
76553	42W HALO S CL E14 230V	42	230	E14	630	2900	2,000	45	78	C
98388	20W HALO S CL E27 230V	20	230	E27	235	2900	2,000	45	78	D
98382	30W HALO S CL E27 230V	30	230	E27	405	2900	2,000	45	78	D
76551	42W HALO S CL E27 230V	42	230	E27	630	2900	2,000	45	78	C
98385	20W HALO S CL E14 240V	20	240	E14	235	2900	2,000	45	78	D
98378	30W HALO S CL E14 240V	30	240	E14	405	2900	2,000	45	78	D
76548	42W HALOS CL E14 240V	42	240	E14	630	2900	2,000	45	78	C
98377	30W HALO S CL E27 240V	30	240	E27	405	2900	2,000	45	78	D
76547	42W HALOS CL E27 240V	42	240	E27	630	2900	2,000	45	78	C
98380	30W HALO S CL B15 240V	30	240	B15	405	2900	2,000	45	78	D
98386	20W HALO S CL B22 240V	20	240	B22	235	2900	2,000	45	78	D
98379	30W HALO S CL B22 240V	30	240	B22	405	2900	2,000	45	78	D
76549	42W HALOS CL B22 240V	42	240	B22	630	2900	2,000	45	78	C
Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Candela [cd]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	
Energy Efficient HaloReflector										
76546	28W HALO R50 E14 230V	28	230	E14	220	2900	2,000	50	86	
76543	42W HALO R63 E27 230V	42	230	E27	600	2900	2,000	63.5	101	
76540	42W HALO R80 E27 230V	42	230	E27	230	2900	2,000	80	121	
76537	70W HALO R80 E27 230V	70	230	E27	TBD	2900	2,000	80	121	
76544	28W HALO R50 E14 240V	28	240	E14	220	2900	2,000	50	86	
76541	42W HALO R63 E27 240V	42	240	E27	600	2900	2,000	63.5	101	
76538	42W HALO R80 E27 240V	42	240	E27	230	2900	2,000	80	121	

Linear Fluorescent Lamps



Ever since GE promoted its first fluorescent lamp in 1938, GE has an over-60-year experience in designing and manufacturing fluorescent lamps.



Linear Fluorescent Lamps

Whether its long life, energy savings, or quality of light, GE's linear fluorescent lamps have your application covered. Delivering excellent colour rendering and high lumen maintenance, for more high quality light.

The characteristics of fluorescent lamps vary widely according to the lamp type. In general, fluorescent lamps have the following advantages:

- Efficient installation and reduced running costs with our Watt-Miser lamps
- Long life – life ratings for fluorescent lamps are now up to 42,000 hours with our LongLast lamps, based on the industry standard of 3-hour burning cycles
- Light quality – high colour rendering and high lumen maintenance
- Flexibility – many combinations of wattage and length, provide flexibility of fixture design and ceiling layout

Looking to the future, we will continue to bring you new technology and improve the efficiency and performance of our portfolio, in line with technology advancements.



T5 Solutions

For maintenance saving

GE T5 StarCoat LongLast

- 36,000 hour extra long life
- Superior lumen maintenance - 90%
- Excellent colour rendering - 85Ra

For energy Saving

GE T5 Watt-Miser

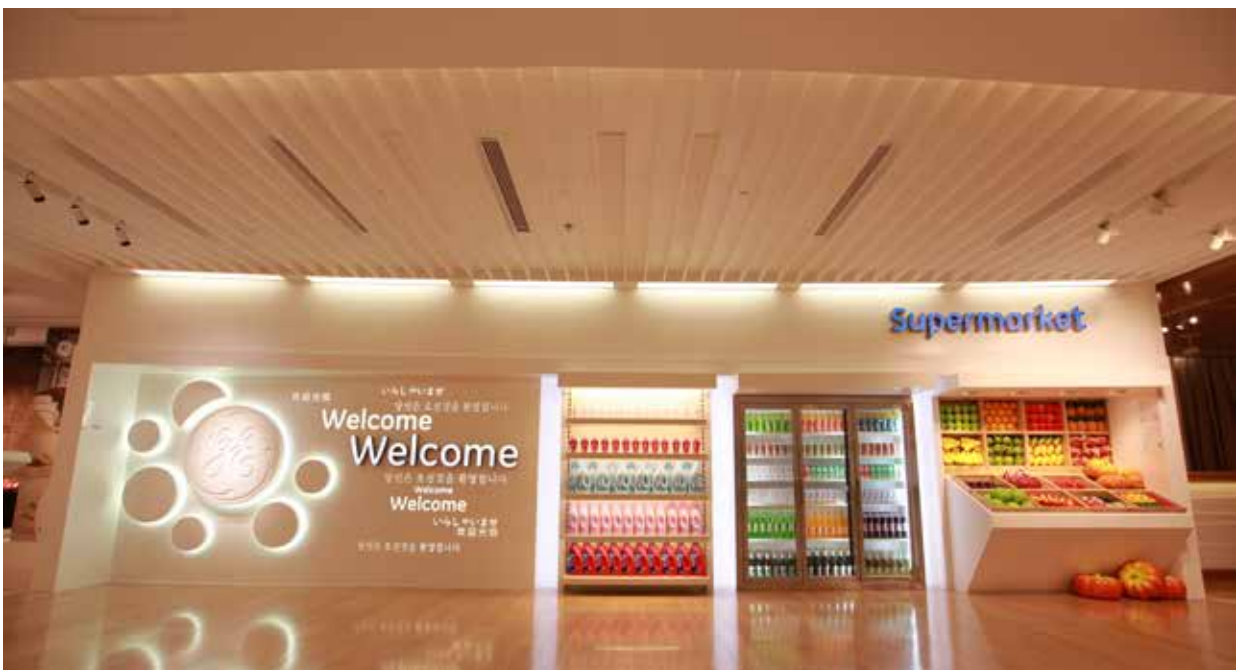
- 5% energy saving with existion system
- 30,000 hour long life
- Reduces CO₂ and other greenhouse gas emissions

For Best in Value

GE T5 StarV

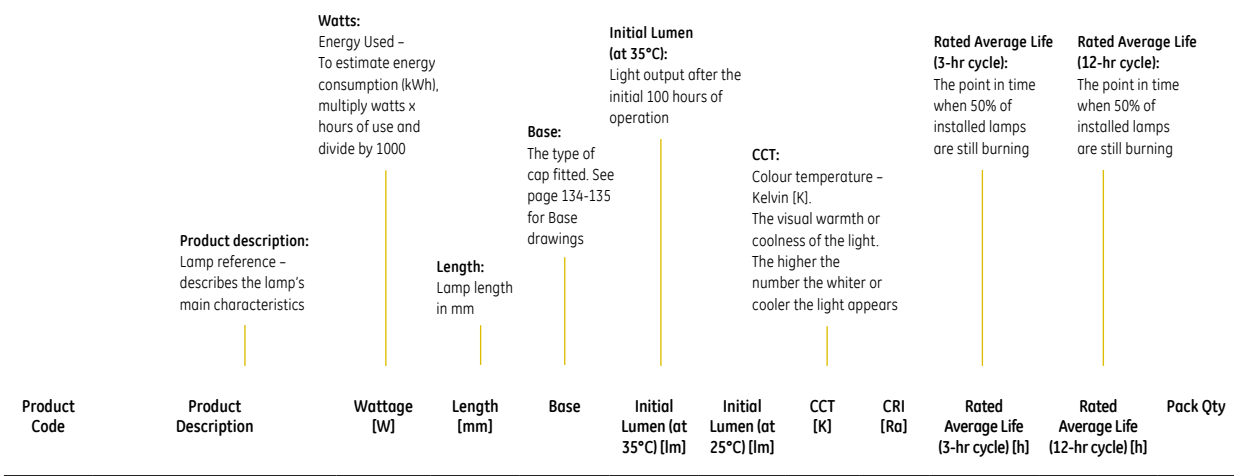
- 20,000 hour rated life
- superior lumen maintenance

T5	T5 Starcoat Cap: G5 Wattages: 14-80W Life: 30,000-36,000Hrs Page: 27	T5 StarV Cap: G5 Wattages: 14-80W Life: 20,000Hrs Page: 28	T5 Miniature Cap: G5 Wattages: 4-13W Life: 5,000-6,000Hrs Page: 28
T8	T8 TriTeah Plus Cap: G13 Wattages: 18-58W Life: 15,000Hrs Page: 29	T8 Polylux XLR Cap: G13 Wattages: 15-70W Life: 15,000-24,000Hrs Page: 29	T8 Standard Cap: G13 Wattages: 10-36W Life: 10,000-15,000Hrs Page: 30
Circline	T9 Circline Cap: G10q Wattages: 22-40W Life: 6,000Hrs Page: 31	T5 Circline Cap: 2G x 13 Wattages: 22-55W Life: 12,000Hrs Page: 31	



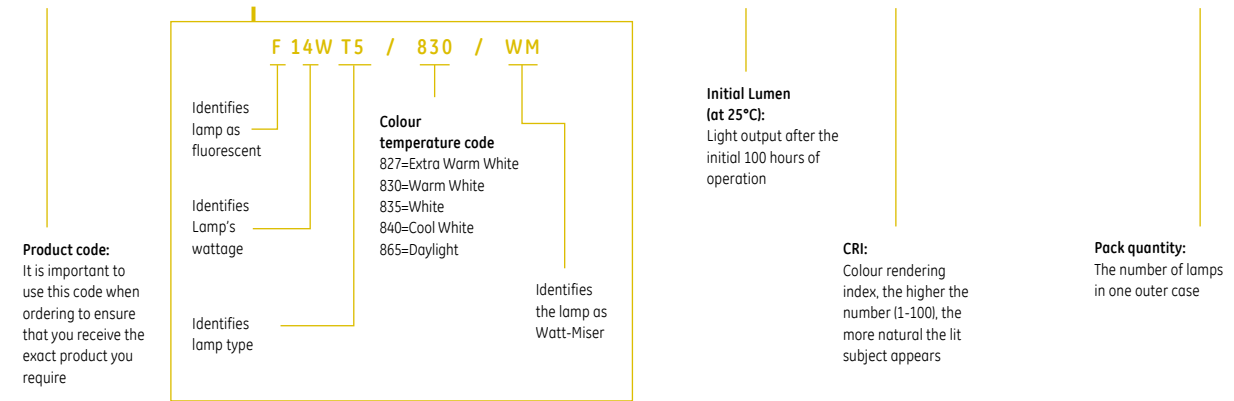
Linear Fluorescent Lamps

Product identification



T5 StarCoat Watt-Miser

71632	F14T5/830/WM/ECO	14	549	G5	1350	1230	3000	85	25,000	30,000	40
71633	F14T5/835/WM/ECO	14	549	G5	1350	1230	3500	85	25,000	30,000	40
71634	F14T5/841/WM/ECO	14	549	G5	1350	1230	4000	85	25,000	30,000	40



Product Code	Product Description	Nominal Wattage [W]	Actual Wattage [W]	Length [mm]	Base	Initial Lumen (at 35°C) [lm]	Initial Lumen (at 25°C) [lm]	CCT [K]	CRI [Ra]	Rated Average Life (3-hr cycle) [h]	Rated Average Life (12-hr cycle) [h]	Pack Qty
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T5 StarCoat Watt-Miser

71632	F14T5/830/WM/ECO	14	13.0	549	G5	1350	1230	3000	85	25,000	30,000	40
71633	F14T5/835/WM/ECO	14	13.0	549	G5	1350	1230	3500	85	25,000	30,000	40
71634	F14T5/841/WM/ECO	14	13.0	549	G5	1350	1230	4000	85	25,000	30,000	40
71636	F14T5/865/WM/ECO	14	13.0	549	G5	1250	1140	6500	85	25,000	30,000	40
71637	F21T5/830/WM/ECO	21	19.7	549	G5	2100	1910	3000	85	25,000	30,000	40
71638	F21T5/835/WM/ECO	21	19.7	849	G5	2100	1910	3500	85	25,000	30,000	40
71639	F21T5/841/WM/ECO	21	19.7	849	G5	2100	1910	4000	85	25,000	30,000	40
71641	F21T5/865/WM/ECO	21	19.7	849	G5	1950	1770	6500	85	25,000	30,000	40
71642	F28T5/830/WM/ECO	28	26.4	849	G5	2900	2640	3000	85	25,000	30,000	40
71643	F28T5/835/WM/ECO	28	26.4	849	G5	2900	2640	3500	85	25,000	30,000	40
71644	F28T5/841/WM/ECO	28	26.4	1,149	G5	2900	2640	4000	85	25,000	30,000	40
71646	F28T5/865/WM/ECO	28	26.4	1,149	G5	2700	2450	6500	85	25,000	30,000	40
71627	F54T5/830/WM/ECO	54	51.1	1,149	G5	5000	4460	3000	85	25,000	30,000	40
71628	F54T5/835/WM/ECO	54	51.1	1,149	G5	5000	4460	3500	85	25,000	30,000	40
71629	F54T5/841/WM/ECO	54	51.1	1,149	G5	5000	4460	4000	85	25,000	30,000	40
71631	F54T5/865/WM/ECO	54	51.1	1,449	G5	4750	4100	6500	85	25,000	30,000	40
71647	F35T5/830/WM/ECO	35	33.0	1,449	G5	3650	3320	3000	85	25,000	30,000	40
71648	F35T5/835/WM/ECO	35	33.0	1,449	G5	3650	3320	3500	85	25,000	30,000	40
71649	F35T5/841/WM/ECO	35	33.0	1,449	G5	3650	3320	4000	85	25,000	30,000	40
71651	F35T5/865/WM/ECO	35	33.0	1,449	G5	3400	3090	6500	85	25,000	30,000	40

Product Code	Product Description	Wattage [W]	Length [mm]	Base	Initial Lumen [lm]	Initial Lumen (at 25°C) [lm]	CCT [K]	CRI [Ra]	Rated Average Life (3-hr cycle) [h]	Rated Average Life (12-hr cycle) [h]	Pack Qty
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T5 StarCoat Watt-Miser Plus

62020	F54T5/47W/830ECO	47	1149	G5	4800	1230	3000	84	30,000	36,000	40
62021	F54T5/47W/835ECO	47	1149	G5	4800	1230	3500	84	30,000	36,000	40
62022	F54T5/47W/840ECO	47	1149	G5	4800	1230	4100	84	30,000	36,000	40
62023	F54T5/47W/850ECO	47	1149	G5	4600	1140	5000	84	30,000	36,000	40
62024	F54T5/47W/865ECO	47	1149	G5	4550	1910	6500	84	30,000	36,000	40

Product Code	Product Code	Product Code	Product Description	Wattage [W]	Length [mm]	Base	Initial Lumen (at 35°C) [lm]	Initial Lumen (at 25°C) [lm]	CCT [K]	CRI [Ra]	Rated Average Life (3-hr cycle) [h]	Rated Average Life (12-hr cycle) [h]
40 pc industrial pack	30 pc sleeve pack	30 pc sleeve pack For Taiwan only										

T5 StarCoat - High Efficiency

72408	73296	73296TW	F14W/T5/830/Starcoat/40	14	549	G5	1350	1230	3000	85	30,000	36,000
72409	73297	73297TW	F14W/T5/840/Starcoat/40	14	549	G5	1350	1230	4000	85	30,000	36,000
72410	73298	73298TW	F14W/T5/865/Starcoat/40	14	549	G5	1250	1140	6500	85	30,000	36,000
72411	73299	73299TW	F21W/T5/830/Starcoat/40	21	849	G5	2100	1910	3000	85	30,000	36,000
72412	73300	73300TW	F21W/T5/840/Starcoat/40	21	849	G5	2100	1910	4000	85	30,000	36,000
72413	73301	73301TW	F21W/T5/865/Starcoat/40	21	849	G5	1950	1770	6500	85	30,000	36,000
72414	73302	73302TW	F28W/T5/830/Starcoat/40	28	1149	G5	2900	2640	3000	85	30,000	36,000
72415	73303	73303TW	F28W/T5/840/Starcoat/40	28	1149	G5	2900	2640	4000	85	30,000	36,000
72416	73304	73304TW	F28W/T5/865/Starcoat/40	28	1149	G5	2700	2450	6500	85	30,000	36,000

Linear Fluorescent Lamps

72417	F35W/T5/830/Starcoat/40	35	1449	G5	3650	3320	3000	85	30,000	36,000
72418	F35W/T5/840/Starcoat/40	35	1449	G5	3650	3320	4000	85	30,000	36,000
72419	F35W/T5/865/Starcoat/40	35	1449	G5	3400	3090	6500	85	30,000	36,000

T5 StarCoat - High Output

72420			F24W/T5/830/Starcoat/40	24	549	G5	2000	1750	3000	85	30,000	36,000
72421			F24W/T5/840/Starcoat/40	24	549	G5	2000	1750	4000	85	30,000	36,000
72422			F24W/T5/865/Starcoat/40	24	549	G5	1900	1600	6500	85	30,000	36,000
72423			F39W/T5/830/Starcoat/40	39	849	G5	3500	3200	3000	85	30,000	36,000
72424			F39W/T5/840/Starcoat/40	39	849	G5	3500	3200	4000	85	30,000	36,000
72425			F39W/T5/865/Starcoat/40	39	849	G5	3330	2950	6500	85	30,000	36,000
72429			F54W/T5/830/Starcoat/40	54	1149	G5	5000	4460	3000	85	30,000	36,000
72430			F54W/T5/840/Starcoat/40	54	1149	G5	5000	4460	4000	85	30,000	36,000
72431			F54W/T5/865/Starcoat/40	54	1149	G5	4750	4100	6500	85	30,000	36,000
72426	73317	73317TW	F49W/T5/830/Starcoat/40	49	1449	G5	4900	4450	3000	85	30,000	36,000
72427	73318	73318TW	F49W/T5/840/Starcoat/40	49	1449	G5	4900	4450	4000	85	30,000	36,000
72428	73319	73319TW	F49W/T5/865/Starcoat/40	49	1449	G5	4650	4100	6500	85	30,000	36,000
72432			F80W/T5/830/Starcoat/40	80	1449	G5	7000	6450	3000	85	30,000	36,000
72433			F80W/T5/840/Starcoat/40	80	1449	G5	7000	6450	4000	85	30,000	36,000
72434			F80W/T5/865/Starcoat/40	80	1449	G5	6650	5950	6500	85	30,000	36,000

Product Code	Product Code For Taiwan only	Product Description	Wattage [W]	Length [mm]	Base	Initial Lumen (at 35°C) [lm]	Initial Lumen (at 25°C) [lm]	CCT [K]	CRI [Ra]	Rated Average Life (3-hr cycle) [h]	Rated Average Life (12-hr cycle) [h]	Pack Qty
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T5 StarV

62694E	62694TW	F14W/830 T5/StarV/SL30	14	549	G5	1350	1230	3000	82	17,000	20,000	30
62695E	62695TW	F14W/840 T5/StarV/SL30	14	549	G5	1350	1230	4000	82	17,000	20,000	30
62696E	62696TW	F14W/865 T5/StarV/SL30	14	549	G5	1250	1140	6500	82	17,000	20,000	30
62697E	62697TW	F21W/830 T5/StarV/SL30	21	849	G5	2100	1910	3000	82	17,000	20,000	30
62698E	62698TW	F21W/840 T5/StarV/SL30	21	849	G5	2100	1910	4000	82	17,000	20,000	30
62699E	62699TW	F21W/865 T5/StarV/SL30	21	849	G5	1950	1770	6500	82	17,000	20,000	30
62700E	62700TW	F28W/830 T5/StarV/SL30	28	1149	G5	2900	2640	3000	82	17,000	20,000	30
62701E	62701TW	F28W/840 T5/StarV/SL30	28	1149	G5	2900	2640	4000	82	17,000	20,000	30
62702E	62702TW	F28W/865 T5/StarV/SL30	28	1149	G5	2700	2450	6500	82	17,000	20,000	30

Product Code	Product Description	Wattage [W]	Length [mm]	Diameter [mm]	Base	Initial Lumen (at 25°C) [lm]	Colour Type	CCT [K]	CRI [Ra]	Rated Average Life (3-hr cycle) [h]	Pack Qty
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T5 Miniature - Triphosphor

37008	F8W/T5/827/IND	8	302.5	16	G5	460	Extra Warm White	2720	80+	5,000	100
37009	F8W/T5/840/IND	8	302.5	16	G5	460	Cool White	4040	80+	5,000	100
39447	F13W/T5/827/SL	13	531.1	16	G5	1000	Extra Warm White	2700	80+	6,000	25

T5 Miniature - Standard

39446	F4W/T5/35/SL	4	150.1	16	G5	130	White	3450	54	5,000	25
10004	F4W/T5/CW	4	150.1	16	G5	130	Cool White	4040	58	5,000	25
39442	F6W/T5/35/SL	6	226.3	16	G5	260	White	3450	54	5,000	25
39445	F6W/T5/33/SL	6	226.3	16	G5	260	Cool White	4040	58	5,000	25
10028	F6W/T5/D	6	226.3	16	G5	230	Day light	6500	75	5,000	25
37754	F8W/T5/29/SL	8	302.5	16	G5	385	Warm White	2940	51	5,000	25

37756	F8W/T5/35/SL	8	302.5	16	G5	385	White	3450	54	5,000	25
10059	F8W/T5/CW	8	302.5	16	G5	385	Cool White	4040	58	5,000	25
10055	F8W/T5/D	8	302.5	16	G5	330	Day light	6500	70	5,000	25
10089	F13W/T5/WW	13	531.1	16	G5	850	Warm White	2950	51	6,000	25
10086	F13W/T5/CW	13	531.1	16	G5	800	Cool White	4040	58	6,000	25

Product Code	Product Code For Theilard On	Product Description	Wattage [W]	Length [mm]	Base	Initial Lumen	Color	CCT [K]	CRI [Ra]	Rated Average Life (3-hr cycle) [h]	Rated Average Life (12-hr cycle) [h]	Pack Qty
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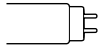
T8 TriTech Plus

79462/F		F18W/T8/WW/Tri-Tech plus	18	600	G13	1350	Warm White	3000	85	15,000	18,000	25
79463/F	79463T	F18W/T8/CW/Tri-Tech plus	18	600	G13	1350	Cool White	4000	85	15,000	18,000	25
79464/F	79464T	F18W/T8/DL/Tri-Tech plus	18	600	G13	1250	Daylight	6500	85	15,000	18,000	25
79465/F		F30W/T8/WW/Tri-Tech plus	30	900	G13	2450	Warm White	3000	85	15,000	18,000	25
79466/F		F30W/T8/CW/Tri-Tech plus	30	900	G13	2450	Cool White	4000	85	15,000	18,000	25
79469/F		F30W/T8/DL/Tri-Tech plus	30	900	G13	2300	Daylight	6500	85	15,000	18,000	25
79470/F		F36W/T8/WW/Tri-Tech plus	36	1200	G13	3200	Warm White	3000	85	15,000	18,000	25
79471/F	79471T	F36W/T8/CW/Tri-Tech plus	36	1200	G13	3200	Cool White	4000	85	15,000	18,000	25
79472/F	79472T	F36W/T8/DL/Tri-Tech plus	36	1200	G13	3100	Daylight	6500	85	15,000	18,000	25
66410		F58W/T8/830/Tri-Tech	58	1500	G13	5000	Warm White	3000	85	10,000	12,000	25
66411		F58W/T8/840/Tri-Tech	58	1500	G13	5000	Cool White	4000	85	10,000	12,000	25
66412		F58W/T8/865/Tri-Tech	58	1500	G13	4930	Daylight	6500	85	10,000	12,000	25

Product Code	Product Description	Wattage [W]	Length [mm]	Diameter [mm]	Initial Lumen (at 25°C) [lm]	Colour Type	CCT [K]	CRI [Ra]	Rated Average Life (3-hr cycle) [h]	Pack Qty
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T8 Polylux XLR - G13 Cap

23248	F15W/T8/830/POLYLUX	15	451.6	26	1000	Warm White	2940	85	15,000	25
78133	F15W/T8/835 POLYLUX	15	451.6	26	1000	White	3450	85	15,000	25
23249	F15W/T8/840/POLYLUX	15	451.6	26	1000	Cool White	4040	85	15,000	25
78131	F15W/T8/860/POLYLUX	15	451.6	26	900	Daylight	6400	85	15,000	25
62560	F18W/T8/827/POLYLUX	18	604	26	1350	Extra Warm White	2720	85	15,000	25
62559	F18W/T8/830/POLYLUX	18	604	26	1350	Warm White	2940	85	15,000	25
62534	F18W/T8/835/POLYLUX	18	604	26	1350	White	3450	85	15,000	25
62558	F18W/T8/840/POLYLUX	18	604	26	1350	Cool White	4040	85	15,000	25
62557	F18W/T8/860/POLYLUX	18	604	26	1300	Daylight	6400	85	15,000	25
18141	F30W/T8/830/POLYLUX	30	908.8	26	2450	Warm White	2940	85	15,000	25
78132	F30W/T8/835/POLYLUX	30	908.8	26	2450	White	3450	85	15,000	25
18142	F30W/T8/840/POLYLUX	30	908.8	26	2450	Cool White	4040	85	15,000	25
62554	F36W/T8/827/POLYLUX	36	1,213.6	26	3350	Extra Warm White	2720	85	15,000	25
62553	F36W/T8/830/POLYLUX	36	1,213.6	26	3350	Warm White	2940	85	15,000	25
62532	F36W/T8/835/POLYLUX	36	1,213.6	26	3350	White	3450	85	15,000	25
62551	F36W/T8/840/POLYLUX	36	1,213.6	26	3350	Cool White	4040	85	15,000	25
62552	F36W/T8/860/POLYLUX	36	1,213.6	26	3250	Daylight	6400	85	15,000	25
93330	F58W/T8/827/POLYLUX	58	1,514.2	26	5200	Extra Warm White	2720	85	15,000	25
93334	F58W/T8/830/POLYLUX	58	1,514.2	26	5200	Warm White	2940	85	15,000	25
93331	F58W/T8/835/POLYLUX	58	1,514.2	26	5200	White	3450	85	15,000	25
93333	F58W/T8/840/POLYLUX	58	1,514.2	26	5200	Cool White	4040	85	15,000	25
12943	F58W/T8/860/POLYLUX	58	1,514.2	26	5000	Daylight	6400	85	15,000	25
62572	F70W/T8/835/POLYLUX	70	1,778	26	6300	White	3450	85	15,000	25
62573	F70W/T8/840/POLYLUX	70	1,778	26	6300	Cool White	4040	85	15,000	25



Linear Fluorescent Lamps

Product Code	Product Description	Wattage [W]	Length [mm]	Diameter [mm]	Initial Lumen (at 25°C) [lm]	Colour Type	CCT [K]	CRI [Ra]	Rated Average Life (3-hr cycle) [h]	Pack Qty
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T8 Polylux XLR LongLast - G13 Cap

62567	F18/T8/830/POLYLUX/LL	18	604	26	1350	Warm White	3000	85	24,000	25
62566	F18/T8/840/POLYLUX/LL	18	604	26	1350	Cool White	4000	85	24,000	25
62565	F36/T8/830/POLYLUX/LL	36	1,200	26	3350	Warm White	3000	85	24,000	25
62564	F36/T8/840/POLYLUX/LL	36	1,200	26	3350	Cool White	4000	85	24,000	25
62563	F58/T8/830/POLYLUX/LL	58	1,500	26	5200	Warm White	3000	85	24,000	25
62562	F58/T8/840/POLYLUX/LL	58	1,500	26	5200	Cool White	4000	85	24,000	25

Product Code	Product Description	Wattage [W]	Length [mm]	Base	Initial Lumen	Color	CCT [K]	CRI [Ra]	Life	Pack Qty
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T8 Standard - G13 Cap

81412	F10T8/33	10	300	G13	420	Cool White	4000	60	5,000	25
17272	F10T8/54	10	300	G13	400	Day light	6500	75	5,000	25
61516	F15W/33	15	450	G13	825	Cool White	4000	60	7,500	25
61517	F15W/54	15	450	G13	700	Day light	6500	75	7,500	25

Product Code	Product Code For Taiwan only	Product Description	Wattage [W]	Length [mm]	Initial Lumen (at 35°C) [lm]	CCT [K]	CRI [Ra]	Rated Average Life [h]	Pack Qty
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T8 Standard

65152		F18T8/WW	18	600	1050	3000	51	10,000	25
73335	73335T	F18T8/CW	18	600	1050	4000	58	10,000	25
73336	73336T	F18T8/DL	18	600	900	6500	76	10,000	25
65153		F36T8/WW	36	900	2750	3000	51	10,000	25
73337	73337T	F36T8/CW	36	900	2750	4000	58	10,000	25
73338	73338T	F36T8/DL	36	900	2350	6500	76	10,000	25

Product Code	Product Description	Wattage [W]	Base	Initial Lumen	Burn Position	CCT [K]	CRI [Ra]	Life [h]	Current [mA]	Control Gear
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T8 Standard - LongLast, G13 Cap

71255	F10W/DL XL	10	G13	377	Universal	6500	76	5000	230	T8 ELB/EMB
71256	F18W/WW XL	18	G13	1200	Universal	3000	51	15000	370	T8 ELB/EMB
71257	F18W/CW XL	18	G13	1150	Universal	4000	58	15000	370	T8 ELB/EMB
71258	F18W/DL XL	18	G13	960	Universal	6500	76	15000	370	T8 ELB/EMB
71259	F36W/WW XL	36	G13	2760	Universal	3000	51	15000	430	T8 ELB/EMB
71260	F36W/CW XL	36	G13	2650	Universal	4000	58	15000	430	T8 ELB/EMB
71261	F36W/DL XL	36	G13	2400	Universal	6500	76	15000	430	T8 ELB/EMB

Product Code	Product Description	Wattage [W]	Length [mm]	Cap	Initial Lumen	Color	CCT [K]	CRI [Ra]	Rated life [h]	Pack Qty
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T8 Standard for Philippines Only - G13 Cap

61535	F18T8/WW	18	600	G13	1150	Warm White	3000	51	10000	25
61536	F18T8/CW	18	600	G13	1100	Cool White	4000	58	10000	25
61537	F18T8/DL	18	600	G13	960	Daylight	6500	76	10000	25
61538	F30T8/WW	30	900	G13	2100	Warm White	3000	51	10000	25
61539	F30T8/CW	30	900	G13	2025	Cool White	4000	58	10000	25
61540	F30T8/DL	30	900	G13	1720	Daylight	6500	76	10000	25
61541	F36T8/WW	36	1200	G13	2760	Warm White	3000	51	10000	25
61542	F36T8/CW	36	1200	G13	2650	Cool White	4000	58	10000	25
61543	F36T8/DL	36	1200	G13	2400	Daylight	6500	76	10000	25

T12 Standard

71708S	F20WT12/DL	20	600	G13	1100	Daylight	6500	76	15,000	36
71709S	F40WT12/DL	40	1200	G13	2640	Daylight	6500	76	10,000	36

Product Code	Product Description	Wattage [W]	Diam. [mm]	Base	CCT [K]	Initial Lumens [lm]	CRI [Ra]	Avg.Life [Hr]	Pack Qty.
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T9 Circline - Standard

95847EN	Edison FCL22/DL	22	216	G10q	6500	1050	75	6000	30
95848EN	Edison FCL32/DL	32	305	G10q	6500	1750	75	6000	30
95774EN	Edison FCL40/DL	40	406	G10q	6500	2440	75	6000	20

Product Code	Product Description	Wattage [W]	Diam. [mm]	Base	CCT [K]	Initial Lumens [lm]	CRI [Ra]	Avg.Life [Hr]	Pack Qty.
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T9 Circline - Triphosphate

61607	FCL22W/827	22	216	G10q	2700	1400	80	6000	30
61608	FCL22W/840	22	216	G10q	4000	1400	80	6000	30
61609	FCL22W/850	22	216	G10q	5000	1300	80	6000	30
24089EN	FCL22/HO/DL/860	22	216	G10q	6500	1300	80	6000	30
61610	FCL32W/827	32	305	G10q	2700	2480	80	6000	30
61611	FCL32W/840	32	305	G10q	4000	2480	80	6000	30
61612	FCL32W/850	32	305	G10q	5000	2300	80	6000	30
24090EN	FCL32/HO/DL/860	32	305	G10q	6500	2300	80	6000	30
61613	FCL40W/827	40	406	G10q	2700	3200	80	6000	20
61614	FCL40W/840	40	406	G10q	4000	3200	80	6000	20
61615	FCL40W/850	40	406	G10q	5000	3000	80	6000	20
24091EN	FCL40/HO/DL/W/860	40	406	G10q	6500	3000	80	6000	20

Product Code	Product Description	Wattage [W]	Length [mm]	Diameter [mm]	Base	Initial Lumen (at 25°C) [lm]	Colour Type	CCT [K]	CRI [Ra]	Rated Average Life (3-hr cycle) [h]	Pack Qty
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T5 Circline - Triphosphor

75709	FC22W/T5/830	22	225	16	2Gx13	1900	Warm White	3000	82	12,000	10
75720	FC22W/T5/840	22	225	16	2Gx13	1900	Cool White	4000	82	12,000	10
75712	FC40W/T5/830	40	300	16	2Gx13	3300	Warm White	3000	82	12,000	10
75713	FC40W/T5/840	40	300	16	2Gx13	3300	Cool White	4000	82	12,000	10
75717	FC55W/T5/830	55	300	16	2Gx13	4200	Warm White	3000	82	12,000	10
75718	FC55W/T5/840	55	300	16	2Gx13	4200	Cool White	4000	82	12,000	10

Compact Fluorescent Lamps



GE's full-family CFL lamp rivals incandescent lamp in appearance, size and light color, but surpasses in long lifetime and significant energy-saving effect.



The smart way for an efficient professional lighting application with GE non-integrated compact fluorescent lamps.

GE lighting has one of the most extensive range of compact fluorescent light sources available, providing extra energy saving with the Watt-Miser concept and long life performance with the LongLast range, which can be ideal for almost every application. Since compact fluorescent bulbs use less energy, these products save you money on your electricity bill and help protect the environment.

In response to the demand from the market for a lower energy consumption GE has developed the extra energy saving 2D™ Watt-Miser.

GE Watt-Miser is a new generation of lamp family where end users can save additional energy versus regular compact fluorescent lamps on the market. Currently this unique GE 2D range has this extra feature where extra energy saving can reach up to 12%.

GE LongLast plug-in range is over the standard, and can last up to 20,000 hours.

The range is wide, having this long life performance from 10-70W in variety of different product shapes.

GE Biax lamps offers:

- Extra energy saving – up to 12%
- Long life – up to 20,000 hours
- High industry standard efficacy level
- Wide range of colour, wattage
- Suitable for dimming and motion detection
- Robust technical design
- High quality product
- Low running cost
- Warranty
- Environmentally friendly



Plug-In CFL

Biax S-2 pin



- 8000hr to 10000hr rated life, which is 8 to 10 time compared to Inc
- 78% energy saving compared to INC
- can change lamp or ballast separately, save replacement cost
- Lumen maintenance keep 90% for 2000hr

Application

- Down light
- Commercial & Industrial lighting
- Hotel, restaurant, airport

Biax D-2 pin



- 8000hr to 10000hr rated life, which is 8 to 10 time compared to Inc
- 78% energy saving compared to INC
- can change lamp or ballast separately, save replacement cost
- Lumen maintenance keep 90% for 2000hr

HLBX Biax L: 36/40/55W

- 6000 hrs rated life
- Compact size, high wattage
- Round tube end, no dark area
- 36W is only with GE, fitting in 600mm*600mm fixture

Biax D-4 pin



- 8000hr to 10000hr rated life, which is 8 to 10 time compared to Inc
- 78% energy saving compared to INC
- can change lamp or ballast separately, save replacement cost
- Lumen maintenance keep 90% for 2000hr



Standard Biax D&T
upgraded to LongLast

For Maintenance Saving



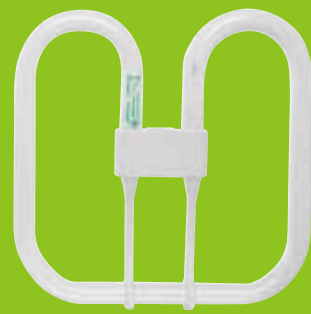
Our new compact fluorescent LongLast lamps provide increased service life which significantly reduces replacement and maintenance costs. They are ultra compact energy saving fluorescent lamps with new, innovative double and triple tube designs giving an ideal light source for small fixtures and downlighters.

GE LongLast guarantees the same light output in any burning position. It can be used in closed luminaires and outdoor applications too without significant light loss due to GE Amalgam technology providing stable lumen performance within a wide temperature range.

- Standard product has been upgraded to LongLast
- Retrofit – can be used with existing fittings and control gears
- 20% life increase on 2-pin and 60% life increase on 4-pin range
- Reduces replacement and maintenance costs
- Best in class versus competition – standard price at premium performance
- Further energy saving with dimming possibilities
- Available in warm to cool temperatures (2700 – 6500K)

Standard 2D upgraded
to Watt-Miser

For Energy Saving



New 2D Watt-Miser lamps are energy saving compact fluorescent tubes formed into a "2D" shape. All types are available with a 4-pin cap which permits use with conventional or electronic control gear, dimming and emergency lighting circuits.

2D lamps use rare earth triphosphors to give high efficacy with good colour rendering properties.

This new range of GE 2D Watt-Miser compact fluorescent lamps give additional energy savings, even on standard control gear.

- Direct replacements for 16-21-28-38W standard 2D range
- Unique shape suitable for broad range of applications
- Interchangeable – can be used with existing fittings and control gear
- Excellent for circular light distribution
- Extra 5-12% energy saving depending on lamp/gear/environment
- The only 'A' class energy 2D lamp on the market
- Highest saving of 12% using 28W in high frequency operation – fast payback
- Best performance at the best running cost on the market!

2D Watt-Miser
The next generation of 2D lamps



The new 2D Watt-Miser lamps are energy saving compact fluorescent tubes. Available in either 16W, 21W, 28W, or 38W versions, in a wide choice of colour temperatures. These lamps are a direct replacement for existing 2D lamps, delivering market leading life, with excellent energy saving performance that is unique to GE!

2D Watt-Miser lamps provide similar lumen output as standard 2D lamps, with an energy saving of up to 12% dependent upon ballast and wattage.

Key benefits

- Reduced energy consumption
- The only 'A' Class energy rated 2D lamp
- Maintains market leading lumen maintenance
- Retrofit products to existing fittings and ballasts
- 2 and 4 pin versions

Application areas

2D Watt-Miser lamps are suitable for a wide range of exterior and interior applications:

- Residential
- Domestic
- Utility areas
- Task lighting
- Hotels/offices/restaurants
- Emergency lighting
- Decorative installations



Energy saving possibilities

	16W			21W			28W			38W		
	W/ Electronic gear	W/ Standard gear	Lumen	W/ Electronic gear	W/ Standard gear	Lumen	W/ Electronic gear	W/ Standard gear	Lumen	W/ Electronic gear	W/ Standard gear	Lumen
2D Watt-Miser	14.05	14.84	1100	18.76	19.61	1350	24.24	26.74	2150	34	37.41	3000
Standard GE 2D lamp	15.4	15.75	1150	20.17	21.17	1450	27.57	28.05	2250	37.28	38.68	3000
Saving	8.8%	5.8%		7%	7.4%		12.1%	4.7%		8.8%	3.3%	

GE's new compact fluorescent lamps give you the energy saving benefits you want and the high quality lighting you expect. These lamps are the perfect alternatives to incandescent lamps.

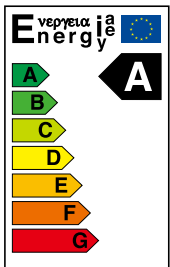
Save money on energy bills and lose nothing in quality. The benefits of GE's compact fluorescent range are:

- 80% energy efficient vs incandescent from our 'A' energy labeled products
- Available in small incandescent sizes and look-a-like shapes – they fit almost everywhere!
- Guaranteed outstanding light quality throughout the lamps' life, available in various colour temperatures
- Provide quick and flicker-free start, fast warm-up
- Last long years in service from 6,000 up to 15,000 hours
- Available in a wide range of shapes – from stick, spiral to decorative form

- Meeting specific requirements with special lamps that offer dimmability, dusk to dawn operation and high switching endurance.
- Environmentally friendly solutions – WEEE, RoHS and EUP compliant products with minimized mercury content.

Get Your shape back!

GE's brand new top performance Energy Smart compact fluorescent lamp is now your true look-a-like replacement of a frosted incandescent bulb – providing excellent light quality and energy savings for up to 10 years.



LongLast Spiral T2 15,000 hours

Small size premium quality lamp providing fast light and long life.



Key features

- Full range from 8-23W
- Fast warm-up
- 15,000 hours life
- 20,000 switching endurance
- Ecolabel certified quality

T3 Dimmable

These premium compact fluorescent lamps are dimmable: this means that lighting can be adjusted to suit mood and also extra energy savings can be made.



Key features

- 20W T3
- Fast warm-up
- 10,000 hours life
- Reduced mercury content <2mg
- 15-100% continuous dimming

Incandescent Upgrade

Incandescent Product Group	Compact Fluorescent Standard Substitute	Compact Fluorescent Premium Substitute	Compact Fluorescent High Performance Substitute
GLS	Stick T3 Mini Eco 6,000 hours	Stick T3 Mini 10,000 hours LongLast Spiral T2 8,000 hours GLS T2 6,000 hours	LongLast Spiral T2 15,000 hours Dimmable Spiral T3 10,000 hours Energy Smart T2 10,000 hours
Krypton Mushroom	Stick T3 Mini Eco 6,000 hours	Stick T3 Mini 10,000 hours Spiral T2 8,000 hours GLS T2 6,000 hours	LongLast Spiral T2 15,000 hours Dimmable Spiral T3 10,000 hours Energy Smart T2 10,000 hours
Candle		Candle T2 6,000 hours	
Spherical		Spiral T2 8,000 hours Spherical T2 6,000 hours	LongLast Spiral T2 15,000 hours Energy Smart T2 10,000 hours
Globe	Stick T3 Mini Eco 6,000 hours	Stick T3 Mini 10,000 hours	Stick T3 Extra Mini 15,000 hours* Spiral T2 15,000 hours Dimmable Spiral T3 10,000 hours Energy Smart T2 10,000 hours

Energy Smart At last, the NEW energy saving lamp that everyone's been waiting for

Miniaturized electronics developed by GE engineers are the enabling technology of a new covered Energy Smart compact fluorescent lamp featuring the "T2 GE Spiral" inside the glass bulb. With this new lamp – an exclusive design achievement that GE has protected with more than 16 patents – the electronics fit in the neck of the frosted-glass bulb. The result is a profile that's virtually identical to a standard incandescent light bulb – same size and shape.

The new premium Energy Smart compact fluorescent bulb is available only from GE, has instant-on technology, consists of eco-friendly components and provides excellent light quality combined with massive energy savings for up to 10 years.



With a T2 tube inside

Key features

- Traditional soft light bulb
- The first glass frosted compact fluorescent lamp, compliant with European Legislation
- 9, 11, 15 and 20W versions
- 80% energy saving
- 10,000 hours lifetime
- Unique GE innovation using 16 patents
- Minimized mercury content, <0.8 mg

a product of
ecomaginationSM



Biax S



Biax S - 2 pin
Cap: G23
Wattages: 5-7-9-11W
Colours: 2700 - 6500K
Life: 8,000Hrs
Page: 46

Biax D



Biax D - 2pin
Cap: G24d
Wattages: 10-13-18-26W
Colours: 2700 - 6500K
Life: 7,000 - 10,000Hrs
Page: 46



Biax D/E - 4pin
Cap: G24q
Wattage: 10-13-18-26W
Colours: 2700 - 6500K
Life: 7,000 - 10,000Hrs
Page: 47

Biax D-D



Biax D-D - 2 pin
Cap: GR-8
Wattages: 16W
Colours: 2700 - 6500K
Life: 10,000Hrs
Page: 47



Biax D-D - 4 pin
Cap: GR-10q
Wattages: 16-28-38W
Colours: 2700 - 6500K
Life: 10,000Hrs
Page: 48

Biax S



Biax S - 2pin
Cap: G23
Wattages: 5-7-9-11W
Colours: 2700 - 6500K
Life: 10,000Hrs
Page: 48



Biax S/E - 4pin
Cap: 2G7
Wattages: 5-7-9-11W
Colours: 2700 - 6500K
Life: 10,000Hrs
Page: 48

Biax D



Biax D - 2pin
Cap: G24d
Wattages: 10-13-18-26W
Colours: 2700 - 6500K
Life: 12,000Hrs
Page: 49



Biax D/E - 4pin
Cap: G24q
Wattage: 10-13-18-26W
Colours: 2700 - 6500K
Life: 20,000Hrs
Page: 49

Biax T



Biax T - 2pin
Cap: GX24d
Wattages: 13-18-26-32W
Colours: 2700 - 6500K
Life: 12,000Hrs
Page: 50



Biax T/E - 4pin
Cap: GX24q
Wattages: 13-18-26-32-42W
Colours: 2700 - 6500K
Life: 20,000Hrs
Pages: 50

Compact Fluorescent Lamps Non-Integrated

Selector

Biax Q



Biax Q/E - 4pin

Cap: GX24q
Wattages: 57-70W
Colours: 2700 - 5000K
Life: 20,000Hrs
Page: 50

Biax L



Biax L - 4pin

Cap: 2G11
Wattages: 18-26-36-40-55W
Colours: 2700 - 6500K
Life: 12,000-20,000Hrs
Page: 51

2D



Biax 2D - 2pin

Cap: GR8
Wattages: 16-28W
Colours: 2700 - 6000K
Life: 12,000Hrs
Page: 51



2D - 4pin

Cap: GR10q, GRY10q
Wattages: 10-16-28-38-55W
Colours: 2700 - 6000K
Life: 8,000-15,000Hrs
Page: 52



Biax 2D Intergral

Cap: GRZ10d, GRZ10t
Wattages: 18-30W
Colours: 2700 - 6000K
Life: 10,000Hrs
Page: 52

*10W and 55W versions are not Watt-Miser type

Stick



T3 Stick - Ultralife

Cap: E27, E14, B22
Wattages: 6-20W
Colours: 2700 - 6500K
Life: 8,000Hrs
Page: 52



T3&T4 Stick - Economizer

Cap: E27
Wattages: 9-23W
Colours: 2700 - 6500K
Life: 6,000Hrs
Page: 54



T3&T4 Econo-mizer Plus

Cap: E27, E14
Wattages: 5-23W
Colours: 2700 - 6500K
Life: 6,000Hrs
Page: 54



T4 Stick - Sensor

Cap: E27
Wattages: 15W
Colours: 2700 - 6500K
Life: 6,000Hrs
Page: 55



T3 Mini

Cap: E27, E14, B22
Wattages: 9-23W
Colours: 2700 - 6500K
Life: 10,000Hrs
Page: 55

Spiral



T2 Spiral - Tiny

Cap: E27, E14, B22, B15
Wattages: 8-20W
Colours: 2700 - 6500K
Life: 8,000Hrs, 15,000Hrs
Page: 56



T3 Spiral-Ultralife Plus

Cap: E27, B22
Wattages: 14-24W
Colours: 2700 - 6500K
Life: 8,000Hrs
Page: 59



T3 Spiral - Economizer Plus

Cap: E27, E14
Wattages: 9-23W
Colours: 2700 - 6500K
Life: 6,000Hrs
Page: 60



T3 Spiral - Dim-mable

Cap: E27, B22
Wattages: 13W, 20W
Colours: 2700 - 6500K
Life: 8,000Hrs
Page: 61



T5 Spiral-High Power

Cap: E27, B22, E40
Wattages: 45W, 60W
Colours: 2700 - 6500K
Life: 6000 - 10,000Hrs
Page: 61



T2 All Glass

Cap: E27, B22
Wattages: 9-20W
Colours: 2700 - 6500K
Life: 8,000-10,000Hrs
Page: 62



T2 Candle

Cap: E27, E14, B22, B15
Wattages: 5W, 7W
Colours: 2700 - 4000K
Life: 6,000-10,000Hrs
Page: 63



T2 Spherical

Cap: E27, E14, B22, B15
Wattages: 5W, 7W
Colours: 2700 - 6500K
Life: 6,000-10,000Hrs
Page: 63



T2&T3 GLS

Cap: E27, E14, B22
Wattages: 8-20W
Colours: 2700 - 4000K
Life: 6,000Hrs
Page: 64



T2 REF

Cap: E27, E14, B22
Wattages: 7W, 11W
Colours: 2700 - 4000K
Life: 6,000Hrs
Page: 64



T2 SOFT

Cap: E27, E14, B22
Wattages: 8W, 12W
Colours: 2700K
Life: 6,000Hrs
Page: 65



T2 GU10

Cap: GU10
Wattages: 7W, 9W
Colours: 2700 - 4000K
Life: 6,000Hrs
Page: 65



T2 Buglite GLS

Cap: E27, B22
Wattages: 11W
Colours: 2700K
Life: 6,000Hrs
Page: 65



T3 GG

Cap: E27
Wattages: 20W
Colours: 2700 - 6500K
Life: 6,000Hrs
Page: 65



PAR38

Cap: E27, B22
Wattages: 23W
Colours: 2700K
Life: 8,000Hrs
Page: 65



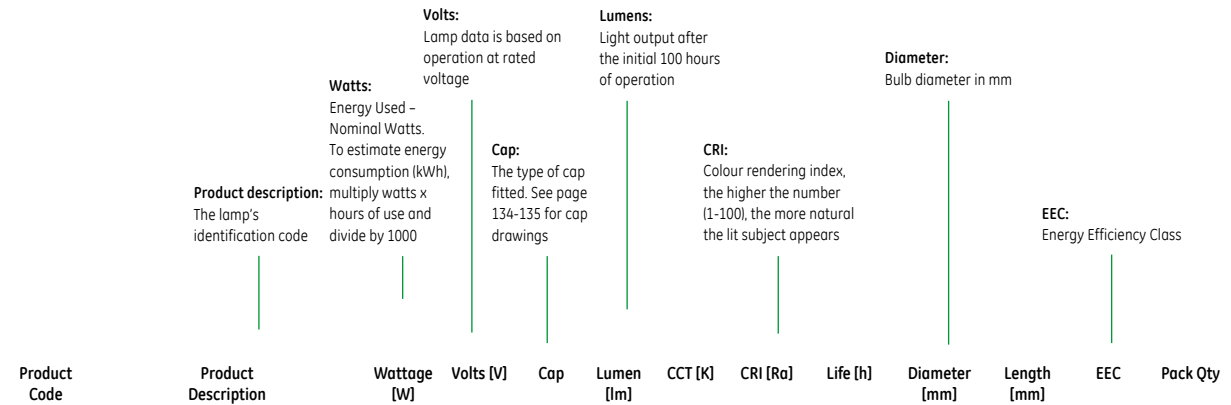
R80

Cap: E27, B22
Wattages: 15W
Colours: 2700K
Life: 8,000Hrs
Page: 65

Compact Fluorescent Lamps Integrated

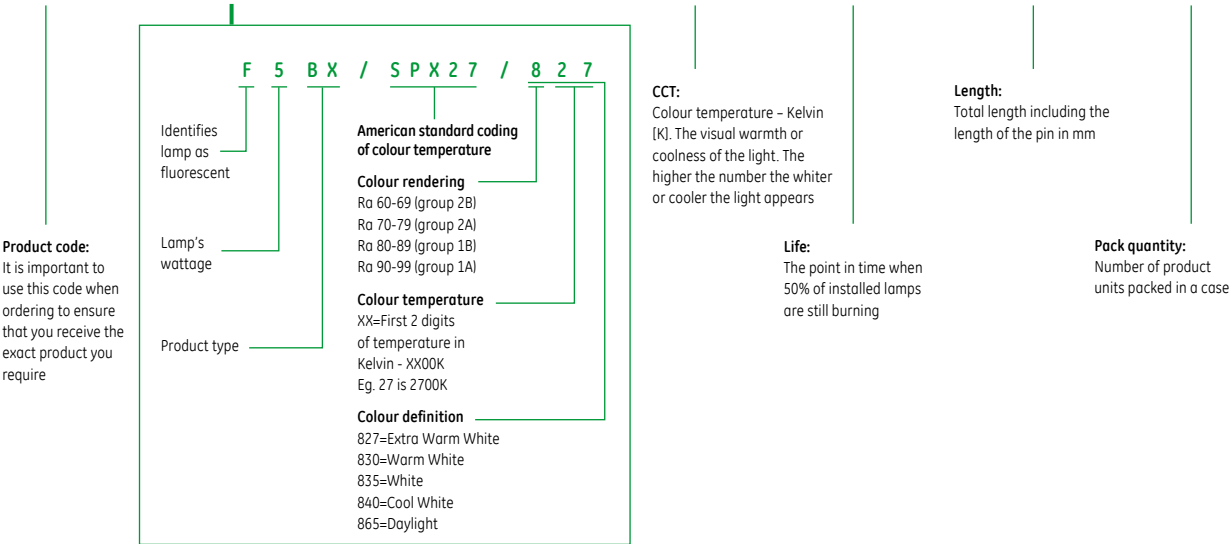
Product identification

The following glossary of terms will help you when selecting lamps in this section. Within each product line, lamps are divided into families – within these families, lamps are listed by wattage. The Product Description can be used as a quick reference to each product's attributes. Where Life or Average Life are stated we refer to the industry standard definition of how many hours of operation 50% of a given installation will exceed. All Biax CFL lamps manufactured with the high quality Polylux triphosphor technology.

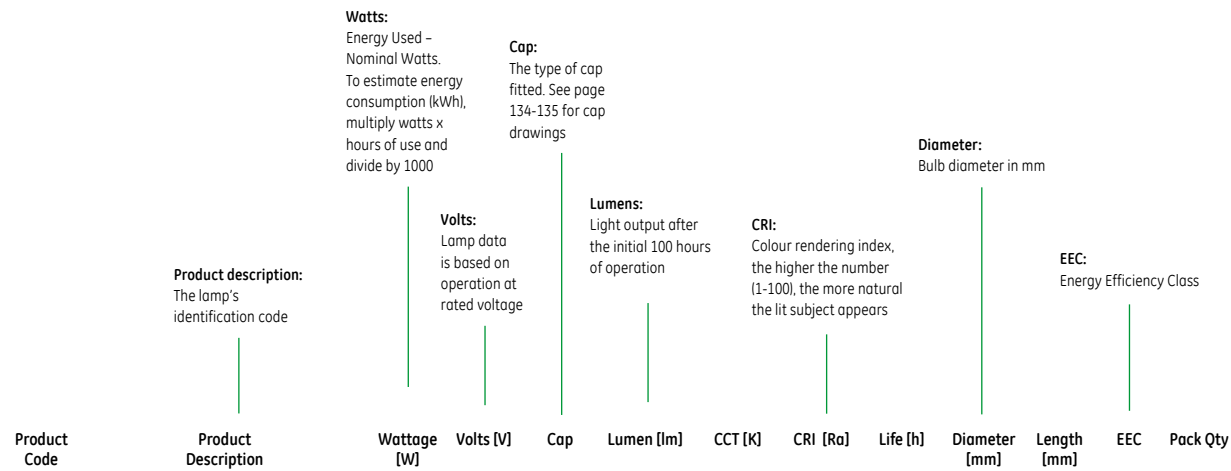


Biax S 2-pin, Internal Starter

Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Lumen [lm]	CCT [K]	CRI [Ra]	Life [h]	Diameter [mm]	Length [mm]	EEC	Pack Qty
37654	F5BX/SPX27/827	5	35	G23	265	2700	82	10,000	32	107.5	A	10
37661	F5BX/SPX41/840	5	35	G23	265	4000	82	10,000	32	107.5	A	10
37846	F7BX/SPX27/827	7	47	G23	425	2700	82	10,000	32	136.5	A	10

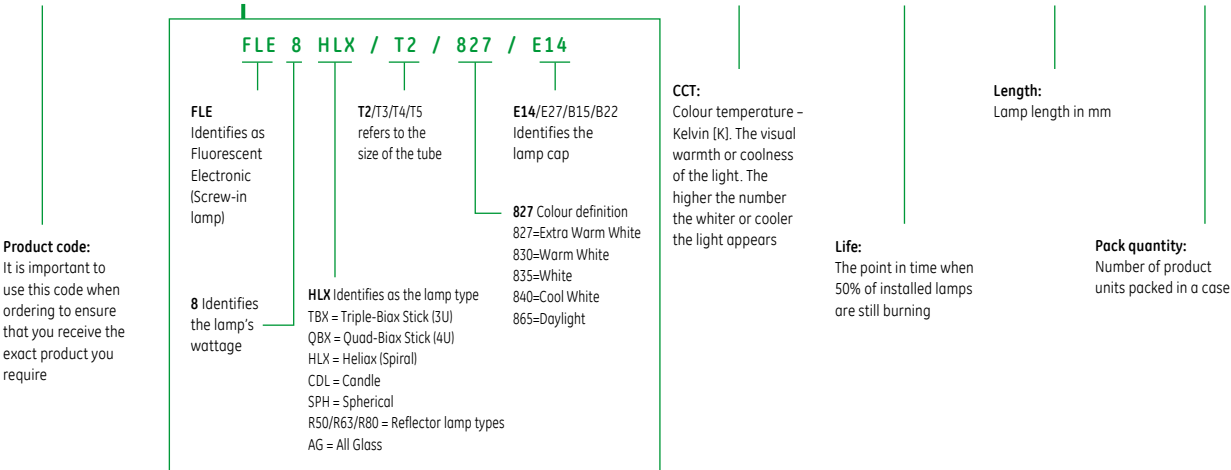


The following glossary of terms will help you when selecting lamps in this section. Within each product line, lamps are divided into families – within these families, lamps are listed by wattage. The Product Description can be used as a quick reference to each product's attributes. Where Life or Average Life are stated we refer to the industry standard definition of how many hours of operation 50% of a given installation will exceed.



Electronic Spiral T2 - 15,000 hours

76153	FLE8HLX/T2/827/E14	8	220-240	E14	460	2700	80	15,000	100.5	46	A	8
76154	FLE8HLX/T2/827/E27	8	220-240	E27	460	2700	80	15,000	88.5	46	A	8
76155	FLE12HLX/T2/827/E14	12	220-240	E14	700	2700	80	15,000	112.5	53	A	6



Compact Fluorescent Lamps Non-Integrated



Product Code	Product Description	Wattage [W]	Cap	Life [h]	CCT [K]	Lumen [lm]	CRI [Ra]	Length [mm]	Country	COO
Biax S-2 pin										
47201E	F7BX/NCO/840/2P/STD	7	G23	8000	4000	400	80	137	Australia	China
47231E	F9BX/NCO/827/2P/STD	9	G23	8000	2700	550	80	167	Australia	China
47232E	F9BX/NCO/840/2P/STD	9	G23	8000	4000	550	80	167	Australia	China
47285E	F11BX/NCO/827/2P/STD	11	G23	8000	2700	850	80	235	Australia	China
47286E	F11BX/NCO/840/2P/STD	11	G23	8000	4000	850	80	235	Australia	China
47200N	F7BX/827/2P	7	G23	8000	2700	400	80	137	MY/PH/SG/TH	China
47201N	F7BX/840/2P	7	G23	8000	4000	400	80	137	MY/PH/SG/TH	China
47202N	F7BX/865/2P	7	G23	8000	6500	400	80	137	MY/PH/SG/TH	China
47231N	F9BX/827/2P	9	G23	8000	2700	550	80	167	MY/PH/SG/TH	China
47232N	F9BX/840/2P	9	G23	8000	4000	550	80	167	MY/PH/SG/TH	China
47284N	F9BX/865/2P	9	G23	8000	6500	550	80	167	MY/PH/SG/TH	China
47285N	F11BX/827/2P	11	G23	8000	2700	850	80	235	MY/PH/SG/TH	China
47286N	F11BX/840/2P	11	G23	8000	4000	850	80	235	MY/PH/SG/TH	China
47287N	F11BX/865/2P	11	G23	8000	6500	850	80	235	MY/PH/SG/TH	China



Biax D-2 pin										
85182E	F10DBX/827/2P/STD	10	G24d-1	10000	2700	560	80	112	Australia	China
85183E	F10DBX/840/2P/STD	10	G24d-1	10000	4000	520	80	112	Australia	China
85185E	F13DBX/827/2P/STD	13	G24d-1	10000	2700	760	80	136	Australia	China
85186E	F13DBX/840/2P/STD	13	G24d-1	10000	4000	740	80	136	Australia	China
85194E	F18DBX/827/2P/STD	18	G24d-2	10000	2700	1100	80	156	Australia	China
85195E	F18DBX/840/2P/STD	18	G24d-2	10000	4000	990	80	156	Australia	China
65396E	F26DBX/827/2P/G24d-3	26	G24d-3	7000	2700	1600	80	180	Australia/ID/PH/SG/MY/TH	China
65399E	F26DBX/840/2P/G24d-3	26	G24d-3	7000	4000	1600	80	180	Australia/ID/PH/SG/MY/TH	China
65405E	F26DBX/865/2P/G24d-3	26	G24d-3	7000	6500	1485	78	180	Australia/ID/PH/SG/MY/TH	China
47288	F10DBX/827/2P	10	G24d-1	10000	2700	560	80	112	PH	China
47290	F10DBX/840/2P	10	G24d-1	10000	4000	520	80	112	PH	China
47291	F10DBX/865/2P	10	G24d-1	10000	6500	505	78	112	PH	China
47296	F13DBX/827/2P	13	G24d-1	10000	2700	760	80	136	PH	China
47300	F13DBX/840/2P	13	G24d-1	10000	4000	740	80	136	PH	China
47303	F13DBX/865/2P	13	G24d-1	10000	6500	720	78	136	PH	China
47306	F18DBX/827/2P	18	G24d-2	10000	2700	1100	80	156	PH	China
47318	F18DBX/840/2P	18	G24d-2	10000	4000	990	80	156	PH	China
47319	F18DBX/865/2P	18	G24d-2	10000	6500	920	78	156	PH	China
85194N	F18DBX/827/2P	18	G24d-2	10000	2700	1100	80	156	PH	China
85195N	F18DBX/840/2P	18	G24d-2	10000	4000	990	80	156	PH	China
85196N	F18DBX/865/2P	18	G24d-2	10000	6500	920	78	156	PH	China

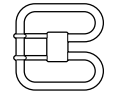
Product Code	Product Description	Wattage [W]	Cap	Life [h]	CCT [K]	Lumen [lm]	CRI [Ra]	Length [mm]	Country	COO
Biax D-2 pin										
85182N	F10DBX/827/2P	10	G24d-1	10000	2700	560	80	112	SG/MY	China
85183N	F10DBX/840/2P	10	G24d-1	10000	4000	520	80	112	SG/MY	China
85184N	F10DBX/865/2P	10	G24d-1	10000	6500	505	78	112	SG/MY	China
85185N	F13DBX/827/2P	13	G24d-1	10000	2700	760	80	136	SG/MY	China
85186N	F13DBX/840/2P	13	G24d-1	10000	4000	740	80	136	SG/MY	China
85191N	F13DBX/865/2P	13	G24d-1	10000	6500	720	78	136	SG/MY	China
85194N	F18DBX/827/2P	18	G24d-2	10000	2700	1100	80	156	SG/MY	China
85195N	F18DBX/840/2P	18	G24d-2	10000	4000	990	80	156	SG/MY	China
85196N	F18DBX/865/2P	18	G24d-2	10000	6500	920	78	156	SG/MY	China
95824EN	F10DBX/827/2P	10	G24d-1	10000	2700	560	80	112	TH	China
95825EN	F10DBX/840/2P	10	G24d-1	10000	4000	520	80	112	TH	China
95826EN	F10DBX/865/2P	10	G24d-1	10000	6500	505	78	112	TH	China
95827EN	F13DBX/827/2P	13	G24d-1	10000	2700	760	80	136	TH	China
95828EN	F13DBX/840/2P	13	G24d-1	10000	4000	740	80	136	TH	China
95829EN	F13DBX/865/2P	13	G24d-1	10000	6500	720	78	136	TH	China
95830EN	F18DBX/827/2P	18	G24d-2	10000	2700	1100	80	156	TH	China
95831EN	F18DBX/840/2P	18	G24d-2	10000	4000	990	80	156	TH	China
95832EN	F18DBX/865/2P	18	G24d-2	10000	6500	920	78	156	TH	China



Biax D/E-4 pin										
85214E	F13DBX/840/4P/STD	13	G24q-1	10000	4000	740	80	130	Australia	China
85216E	F13DBX/865/4P/STD	13	G24q-1	10000	6500	720	78	130	Australia	China
85232E	F18DBX/840/4P/STD	18	G24q-2	10000	4000	990	80	150	Australia	China
85236E	F18DBX/865/4P/STD	18	G24q-2	10000	6500	920	78	150	Australia	China
65407E	F26DBX/827/4P/G24q-3	26	G24q-3	7000	2700	1600	80	175	Australia/ID/MY/PH/SG/TH	China
65413E	F26DBX/840/4P/G24q-3	26	G24q-3	7000	4000	1600	80	175	Australia/ID/MY/PH/SG/TH	China
65415E	F26DBX/865/4P/G24q-3	26	G24q-3	7000	6500	1485	78	175	Australia/ID/MY/PH/SG/TH	China
85197N	GE F10DBX/827/4P	10	G24q-1	10000	2700	560	80	106	MY/PH/SG/TH	China
85198N	GE F10DBX/840/4P	10	G24q-1	10000	4000	520	80	106	MY/PH/SG/TH	China
85199N	GE F10DBX/865/4P	10	G24q-1	10000	6500	505	78	106	MY/PH/SG/TH	China
85211N	GE F13DBX/827/4P	13	G24q-1	10000	2700	760	80	130	MY/PH/SG/TH	China
85214N	GE F13DBX/840/4P	13	G24q-1	10000	4000	740	80	130	MY/PH/SG/TH	China
85216N	GE F13DBX/865/4P	13	G24q-1	10000	6500	720	78	130	MY/PH/SG/TH	China
85221N	GE F18DBX/827/4P	18	G24q-2	10000	2700	1100	80	150	MY/PH/SG/TH	China
85232N	GE F18DBX/840/4P	18	G24q-2	10000	4000	990	80	150	MY/PH/SG/TH	China
85236N	GE F18DBX/865/4P	18	G24q-2	10000	6500	920	78	150	MY/PH/SG/TH	China



Product Code	Product Description	Wattage [W]	Cap	Life [h]	CCT [K]	Lumen [lm]	CRI [Ra]	Dimension [mm]	Country	COO
Biax D-D - 2 pin										
86354N	F16DDT4/827/2P	16	GR8	8000	2700	950	82	141x138	SG	China
86361N	F16DDT4/840/2P	16	GR8	8000	4000	950	82	141x138	SG	China
86376N	F16DDT4/865/2P	16	GR8	8000	6500	903	82	141x138	SG	China



Compact Fluorescent Lamps Non-Integrated



Biax D-D - 4 pin

86391N	F16DDT4/827/4P	16	GR10q	8000	2700	950	82	141x138	SG	China
86406N	F16DDT4/865/4P	16	GR10q	8000	6500	903	82	141x138	SG	China
86421N	F28DDT6/827/4P	28	GR10q	8000	2700	1950	82	207x205	SG	China
86436N	F28DDT6/840/4P	28	GR10q	8000	4000	1950	82	207x205	SG	China
86451N	F28DDT6/865/4P	28	GR10q	8000	6500	1853	82	207x205	SG	China
86466N	F38DDT6/827/4P	38	GR10q	8000	2700	2700	82	207x205	SG	China
86481N	F38DDT6/840/4P	38	GR10q	8000	4000	2700	82	207x205	SG	China
86496N	F38DDT6/865/4P	38	GR10q	8000	6500	2565	82	207x205	SG	China

Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Lumen [lm]	CCT [K]	CRI [Ra]	Life [h]	Diameter [mm]	Length [mm]	COO
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Biax S 2-pin, Internal Starter

37654	F5BX/SPX27/827	5	35	G23	265	2700	82	10,000	32	107.5	Hungary
37661	F5BX/SPX41/840	5	35	G23	265	4000	82	10,000	32	107.5	Hungary
37846	F7BX/SPX27/827	7	47	G23	425	2700	82	10,000	32	136.5	Hungary
38930	F7BX/830	7	47	G23	425	3000	82	10,000	32	136.5	Hungary
37659	F7BX/SPX35/835	7	47	G23	425	3500	82	10,000	32	136.5	Hungary
37660	F7BX/SPX41/840	7	47	G23	425	4000	82	10,000	32	136.5	Hungary
38984	F7BX/865	7	47	G23	425	6500	82	10,000	32	136.5	Hungary
37651	F9BX/827	9	60	G23	600	2700	82	10,000	32	167	Hungary
38929	F9BX/830	9	60	G23	600	3000	82	10,000	32	167	Hungary
37652	F9BX/SPX35/835	9	60	G23	600	3500	82	10,000	32	167	Hungary
37653	F9BX/SPX41/840	9	60	G23	600	4000	82	10,000	32	167	Hungary
38985	F9BX/865	9	60	G23	600	6500	82	10,000	32	167	Hungary
37663	F11BX/827	11	91	G23	900	2700	82	10,000	32	237	Hungary
38928	F11BX/830	11	91	G23	900	3000	82	10,000	32	237	Hungary
37666	F11BX/835	11	91	G23	900	3500	82	10,000	32	237	Hungary
37664	F11BX/840	11	91	G23	900	4000	82	10,000	32	237	Hungary
38986	F11BX/840	11	91	G23	900	6500	82	10,000	32	237	Hungary

Biax S/E 4-pin, External Starter Required

37714	F5BX/827/4P	5	35	2G7	265	2700	82	10,000	37.5	92	Hungary
37715	F5BX/840/4P	5	35	2G7	265	4000	82	10,000	37.5	92	Hungary
37658	F7BX/827/4P	7	47	2G7	425	2700	82	10,000	37.5	121	Hungary
37716	F7BX/840/4P	7	47	2G7	425	4000	82	10,000	37.5	121	Hungary
37710	F9BX/827/4P	9	60	2G7	600	2700	82	10,000	37.5	151	Hungary
37711	F9BX/840/4P	9	60	2G7	600	4000	82	10,000	37.5	151	Hungary
37717	F11BX/827/4P	11	91	2G7	900	2700	82	10,000	37.5	222	Hungary
37713	F11BX/840/4P	11	91	2G7	900	4000	82	10,000	37.5	222	Hungary
12603	F11BX/865/4P	11	91	2G7	900	6500	82	10,000	37.5	222	Hungary



Biax D 2-pin, Internal Starter

78211	F10DBX/T3/827/2P	10	64	G24D-1	600	2700	82	12000	34.4	108	Hungary
78212	F10DBX/T3/830/2P	10	64	G24D-1	600	3000	82	12000	34.4	108	Hungary
78213	F10DBX/T3/835/2P	10	64	G24D-1	600	3500	82	12000	34.4	108	Hungary
78214	F10DBX/T3/840/2P	10	64	G24D-1	600	4000	82	12000	34.4	108	Hungary
78215	F10DBX/T3/865/2P	10	64	G24D-1	600	6500	82	12000	34.4	108	Hungary
78221	F13DBX/T3/827/2P	13	91	G24D-1	900	2700	82	12000	34.4	139	Hungary
78222	F13DBX/T3/830/2P	13	91	G24D-1	900	3000	82	12000	34.4	139	Hungary
78223	F13DBX/T3/835/2P	13	91	G24D-1	900	3500	82	12000	34.4	139	Hungary
78224	F13DBX/T3/840/2P	13	91	G24D-1	900	4000	82	12000	34.4	139	Hungary
78225	F13DBX/T3/865/2P	13	91	G24D-1	900	6500	82	12000	34.4	139	Hungary
12860	F18DBXT4/SPX27/827	18	100	G24d-2	1200	2700	82	12,000	34.4	154	Hungary
12861	F18DBXT4/SPX30/830	18	100	G24d-2	1200	3000	82	12,000	34.4	154	Hungary
12863	F18DBXT4/SPX35/835	18	100	G24d-2	1200	3500	82	12,000	34.4	154	Hungary
12864	F18DBXT4/SPX41/840	18	100	G24d-2	1200	4000	82	12,000	34.4	154	Hungary
13017	F18DBXT4/SPX65/865	18	100	G24d-2	1200	6500	82	12,000	34.4	154	Hungary
35250	F26DBXT4/SPX27/827	26	105	G24d-3	1800	2700	82	12,000	34.4	169.5	Hungary
35237	F26DBXT4/SPX30/830	26	105	G24d-3	1800	3000	82	12,000	34.4	169.5	Hungary
35251	F26DBXT4/SPX35/835	26	105	G24d-3	1800	3500	82	12,000	34.4	169.5	Hungary
35252	F26DBXT4/SPX41/840	26	105	G24d-3	1800	4000	82	12,000	34.4	169.5	Hungary
35305	F26DBXT4/SPX65/865	26	105	G24d-3	1630	6500	82	12,000	34.4	169.5	Hungary

Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Lumen [lm]	CCT [K]	CRI [Ra]	Life [h]	Diameter [mm]	Length [mm]	COO
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Biax D/E LongLast 4-pin, External Starter Required

78217	F10DBX/T3/827/4P	10	51	G24Q-1	600	2700	82	20000	34.4	100.5	Hungary
78218	F10DBX/T3/830/4P	10	51	G24Q-1	600	3000	82	20000	34.4	100.5	Hungary
78219	F10DBX/T3/835/4P	10	51	G24Q-1	600	3500	82	20000	34.4	100.5	Hungary
78220	F10DBX/T3/840/4P	10	51	G24Q-1	600	4000	82	20000	34.4	100.5	Hungary
78231	F10DBX/T3/865/4P	10	51	G24Q-1	600	6500	82	20000	34.4	100.5	Hungary
78226	F13DBX/T3/827/4P	13	77	G24Q-1	900	2700	82	20000	34.4	131.5	Hungary
78227	F13DBX/T3/830/4P	13	77	G24Q-1	900	3000	82	20000	34.4	131.5	Hungary
78228	F13DBX/T3/835/4P	13	77	G24Q-1	900	3500	82	20000	34.4	131.5	Hungary
78229	F13DBX/T3/840/4P	13	77	G24Q-1	900	4000	82	20000	34.4	131.5	Hungary
78232	F13DBX/T3/865/4P	13	77	G24Q-1	900	6500	82	20000	34.4	131.5	Hungary
12865	F18DBX/SPX27/827/4P	18	80	G24q-2	1200	2700	82	20,000	34.4	146.5	Hungary
12866	F18DBX/SPX30/830/4P	18	80	G24q-2	1200	3000	82	20,000	34.4	146.5	Hungary
12869	F18DBX/SPX35/835/4P	18	80	G24q-2	1200	3500	82	20,000	34.4	146.5	Hungary
12870	F18DBX/SPX41/840/4P	18	80	G24q-2	1200	4000	82	20,000	34.4	146.5	Hungary
35247	F26DBX/SPX27/827/4P	26	80	G24q-3	1800	2700	82	20,000	34.4	162	Hungary
35235	F26DBX/SPX30/830/4P	26	80	G24q-3	1800	3000	82	20,000	34.4	162	Hungary
35248	F26DBX/SPX35/835/4P	26	80	G24q-3	1800	3500	82	20,000	34.4	162	Hungary
35236	F26DBX/SPX41/840/4P	26	80	G24q-3	1800	4000	82	20,000	34.4	162	Hungary
42798	F26DBX/SPX65/865/4P	26	80	G24q-3	1710	6500	82	12,000	34.40	162	Hungary



Compact Fluorescent Lamps Non-Integrated



Biax T 2-pin with Amalgam, Internal Starter											
35940	F13TBX/827/A/2P	13	91	GX24d-1	900	2700	82	12,000	49.3	112.9	Hungary
35966	F13TBX/SPX30/830/A/2P	13	91	GX24d-1	900	3000	82	12,000	49.3	112.9	Hungary
35941	F13TBX/SPX41/A/2P	13	91	GX24d-1	900	4000	82	12,000	49.3	112.9	Hungary
35945	F18TBX/SPX27/827/A/2P	18	100	GX24d-2	1200	2700	82	12,000	49.3	127.4	Hungary
35944	F18TBX/SPX30/830/A/2P	18	100	GX24d-2	1200	3000	82	12,000	49.3	127.4	Hungary
35937	F18TBX/SPX35/835/A/2P	18	100	GX24d-2	1200	3500	82	12,000	49.3	127.4	Hungary
35939	F18TBX/SPX41/840/A/2P	18	100	GX24d-2	1200	4000	82	12,000	49.3	127.4	Hungary
35959	F26TBX/SPX27/827/A/2P	26	105	GX24d-3	1800	2700	82	12,000	49.3	139.9	Hungary
35952	F26TBX/SPX30/830/A/2P	26	105	GX24d-3	1800	3000	82	12,000	49.3	139.9	Hungary
35963	F26TBX/SPX35/835/A/2P	26	105	GX24d-3	1800	3500	82	12,000	49.3	139.9	Hungary
35964	F26TBX/SPX41/840/A/2P	26	105	GX24d-3	1800	4000	82	12,000	49.3	139.9	Hungary

Biax T/E LongLast 4-pin with Amalgam, External Starter Required											
34391	F13TBX/SPX27/827/A/4P	13	91	GX24q-1	900	2700	82	12,000	49.3	112.9	Hungary
34395	F13TBX/SPX30/830/A/4P	13	91	GX24q-1	900	3000	82	12,000	49.3	112.9	Hungary
34400	F13TBX/SPX35/835/A/4P	13	91	GX24q-1	900	3500	82	12,000	49.3	112.9	Hungary
34387	F13TBX/SPX41/840/A/4P	13	91	GX24q-1	900	4000	82	12,000	49.3	112.9	Hungary
34392	F18TBX/SPX27/827/A/4P	18	100	GX24q-2	1200	2700	82	12,000	49.3	127.4	Hungary
34396	F18TBX/SPX30/830/A/4P	18	100	GX24q-2	1200	3000	82	12,000	49.3	127.4	Hungary
34405	F18TBX/SPX35/835/A/4P	18	100	GX24q-2	1200	3500	82	12,000	49.3	127.4	Hungary
34385	F18TBX/SPX41/840/A/4P	18	100	GX24q-2	1200	4000	82	12,000	49.3	127.4	Hungary
34393	F26TBX/SPX27/827/A/4P	26	105	GX24q-3	1800	2700	82	12,000	49.3	139.9	Hungary
34397	F26TBX/SPX30/830/A/4P	26	105	GX24q-3	1800	3000	82	12,000	49.3	139.9	Hungary
34406	F26TBX/SPX35/835/A/4P	26	105	GX24q-3	1800	3500	82	12,000	49.3	139.9	Hungary
34381	F26TBX/SPX41/840/A/4P	26	105	GX24q-3	1800	4000	82	12,000	49.3	139.9	Hungary

Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Lumen [lm]	CCT [K]	CRI [Ra]	Life [h]	Diameter [mm]	Length [mm]	COO
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Biax T/E LongLast 4-pin with Amalgam, External Starter Required											
39377	F32TBX/SPX27/827/AP4P	32	100	GX24q-3	2400	2700	82	17,000	49.3	141.2	Hungary
39378	F32TBX/SPX30/830/AP4P	32	100	GX24q-3	2400	3000	82	17,000	49.3	141.2	Hungary
39379	F32TBX/SPX35/835/A/4P	32	100	GX24q-3	2400	3500	82	17,000	49.3	141.2	Hungary
39380	F32TBX/SPX41/840/A/4P	32	100	GX24q-3	2400	4000	82	17,000	49.3	141.2	Hungary
46312	F42TBX/827/A/4P	42	135	GX24q-4	3200	2700	82	17,000	49.3	163.2	Hungary
46313	F42TBX/830/A/4P	42	135	GX24q-4	3200	3000	82	17,000	49.3	163.2	Hungary
46314	F42TBX/835/A/4P	42	135	GX24q-4	3200	3500	82	17,000	49.3	163.2	Hungary
46315	F42TBX/841/A/4P	42	135	GX24q-4	3200	3000	82	17,000	49.3	163.2	Hungary

Biax Q/E LongLast 4-pin											
45213	F57QBX/827/A/4P/LL	57	175	GX24q-5	4300	2700	82	20,000	58.3	180.7	Hungary
45204	F57QBX/830/A/4P/LL	57	175	GX24q-5	4300	3000	82	20,000	58.3	180.7	Hungary
45202	F57QBX/835/A/4P/LL	57	175	GX24q-5	4300	3500	82	20,000	58.3	180.7	Hungary
45201	F57QBX/840/A/4P/LL	57	175	GX24q-5	4300	4000	82	20,000	58.3	180.7	Hungary
45208	F70QBX/830/A/4P/LL	70	219	GX24q-6	5200	3000	82	20,000	58.3	208.2	Hungary
45219	F70QBX/835/A/4P/LL	70	219	GX24q-6	5200	3500	82	20,000	58.3	208.2	Hungary
45218	F70QBX/840/A/4P/LL	70	219	GX24q-6	5200	4000	82	20,000	58.3	208.2	Hungary



Biax L LongLast 4-pin, External Starter Required											
41087	F18BX/827	18	58	2G11	1250	2700	82	10,000	43.8	231.3	Hungary
41088	F18BX/830	18	58	2G11	1250	3000	82	10,000	43.8	231.3	Hungary
41089	F18BX/835	18	58	2G11	1250	3500	82	10,000	43.8	231.3	Hungary
41090	F18BX/840	18	58	2G11	1250	4000	82	10,000	43.8	231.3	Hungary
41128	F24BX/827	24	87	2G11	1800	2700	82	10,000	43.8	326.8	Hungary
41134	F24BX/830	24	87	2G11	1800	3000	82	10,000	43.8	326.8	Hungary
41145	F24BX/835	24	87	2G11	1800	3500	82	10,000	43.8	326.8	Hungary
41155	F24BX/840	24	87	2G11	1800	4000	82	10,000	43.8	326.8	Hungary
41163	F34BX/830	34	120	2G11	2800	3000	82	10,000	43.8	538.8	Hungary
41166	F34BX/835	34	120	2G11	2800	3500	82	10,000	43.8	538.8	Hungary
41167	F34BX/840	34	120	2G11	2800	4000	82	10,000	43.8	538.8	Hungary
41307	F36BX/827	36	106	2G11	2900	2700	82	10,000	43.8	421.8	Hungary
41168	F36BX/830	36	106	2G11	2900	3000	82	10,000	43.8	421.8	Hungary
41169	F36BX/835	36	106	2G11	2900	3500	82	10,000	43.8	421.8	Hungary
41170	F36BX/840	36	106	2G11	2900	4000	82	10,000	43.8	421.8	Hungary
75694	F36BX/865	36	106	2G11	2750	6500	82	10000	43.8	421.8	Hungary
41171	F40BX/830	40	126	2G11	3500	3000	82	20,000	43.8	538.8	Hungary
41172	F40BX/835	40	126	2G11	3500	3500	82	20,000	43.8	538.8	Hungary
41173	F40BX/840	40	126	2G11	3500	4000	82	20,000	43.8	538.8	Hungary
41174	F55BX/830	55	101	2G11	4800	3000	82	20,000	43.8	538.8	Hungary
41260	F55BX/835	55	101	2G11	4800	3500	82	20,000	43.8	538.8	Hungary
41298	F55BX/840	55	101	2G11	4800	4000	82	20,000	43.8	538.8	Hungary
75695	F55BX/865	55	101	2G11	4550	6500	82	20000	43.8	538.8	Hungary



Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Lumen [lm]	CCT [K]	CRI [Ra]	Life [h]	Diameter [mm]	Length [mm]	COO
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2D Watt-Miser											
41744	F162D/827	16	103	GR8	1100	2700	82	12,000	138	142	Hungary
41745	F162D/835	16	103	GR8	1100	3500	82	12,000	138	142	Hungary
41746	F162D/827/4P	16	103	GR10q	1100	2700	82	12,000	138	142	Hungary
75066	F162D/830/4P	16	103	GR10q	1100	3000	82	12,000	138	142	Hungary
41747	F162D/835/4P	16	103	GR10q	1100	3500	82	12,000	138	142	Hungary
41749	F162D/860	16	103	GR8	1050	6000	82	12,000	138	142	Hungary
41794	F212D/827/4P	21	103	GR10q	1375	2700	82	12,000	138	142	Hungary
41806	F212D/835/4P	21	103	GR10q	1375	3500	82	12,000	138	142	Hungary
41808	F212D/860/4P	21	103	GR10q	1375	6000	82	12,000	138	142	Hungary
10546	F282DT5/827/2P	28	108	GR8	2150	2700	82	15,000	202	204	Hungary
10547	F282DT5/827/4P	28	108	GR10q	2150	2700	82	15,000	202	204	Hungary
75068	F282DT5/830/4P	28	108	GR10q	2150	3000	82	18,000	202	204	Hungary
10567	F282DT5/835/4P	28	108	GR10q	2150	3500	82	15,000	202	204	Hungary
10548	F282DT5/840/4P	28	108	GR10q	2150	4000	82	15,000	202	204	Hungary
10550	F382DT5/827/4P	38	110	GR10q	3000	2700	82	18,000	202	204	Hungary
75067	F382DT5/830/4P	38	110	GR10q	3000	3000	82	18,000	202	204	Hungary
10566	F382DT5/835/4P	38	110	GR10q	3000	3500	82	18,000	202	204	Hungary



Compact Fluorescent Lamps Integrated



Biax 2D

88105	F10W/2D/827/4P	10	60	GR10q	680	2700	82	8,000	92	95	Hungary
88106	F10W/2D/835/4P	10	60	GR10q	680	3500	82	8,000	92	95	Hungary

Biax 2D Watt-Miser with Integral Control Gear

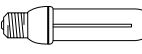
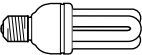
18122	FLE18W2D/827 GRZ10D	18	220-240	GRZ10d	1200	2700	80	10,000	138	142	Hungary
18123	FLE18W2D/835 GRZ10D	18	220-240	GRZ10d	1200	3500	80	10,000	138	142	Hungary
18120	FLE18W2D/840 GRZ10D	18	220-240	GRZ10d	1200	4000	80	10,000	138	142	Hungary



Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Life [h]	CCT [K]	Lumen [lm]	CRI [Ra]	Length [mm]	Diameter [mm]	Country	COO
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T3 Stick - Ultralife

11241	FLE9TBX/827/B22/T3 BP1	9	220-240	B22	8000	2700	480	80	107	45	Australia
74663	FLE9TBX/827/E27/T3 BX	9	220-240	E27	8000	2700	480	80	107	45	Australia
74699	FLE9TBX/827/B22/T3 BX2	9	220-240	B22	10000	2700	480	82	116	44.5	Australia
74700	FLE9TBX/827/E27/T3 BX2	9	220-240	E27	10000	2700	480	82	117	44.5	Australia
95836	FLE9TBX/840/B22/T3	9	220-240	B22	8000	4000	480	80	107	45	Australia
95837	FLE9TBX/840/E27/T3	9	220-240	E27	8000	4000	480	80	107	45	Australia
74671	FLE12TBX/827/B22/T3 BX	12	220-240	B22	8000	2700	700	80	117	46	Australia
74672	FLE12TBX/827/E27/T3 BX	12	220-240	E27	8000	2700	700	80	117	46	Australia
48191	FLE12TBX/840/E27/T3	12	220-240	E27	8000	4000	700	80	117	46	Australia
48192	FLE12TBX/840/B22/T3	12	220-240	B22	8000	4000	700	80	117	46	Australia
95761P	FLE15TBX/827/B22/T3 BP1	15	220-240	B22	8000	2700	872	82	138	44.5	Australia
74680	FLE15TBX/827/E27/T3 BX	15	220-240	E27	8000	2700	872	82	138	44.5	Australia
74701	FLE15TBX/827/B22/T3 BX2	15	220-240	B22	10000	2700	850	82	135	44.5	Australia
74702	FLE15TBX/827/E27/T3 BX2	15	220-240	E27	10000	2700	850	82	136	44.5	Australia
95800P	FLE15TBX/840/B22/T3	15	220-240	B22	8000	4000	800	76	138	44.5	Australia
95804P	FLE15TBX/840/E27/T3	15	220-240	E27	8000	4000	800	76	138	44.5	Australia
74705	FLE15TBX/840/B22/T3 BX2	15	220-240	B22	10000	4000	800	82	139	44.5	Australia
74706	FLE15TBX/840/E27/T3 BX2	15	220-240	E27	10000	4000	800	82	140	44.5	Australia
81025	FLE15TBX/865/B22/T3	15	220-240	B22	8000	6500	800	76	138	44.5	Australia
81026	FLE15TBX/865/E27/T3	15	220-240	E27	8000	6500	800	76	138	44.5	Australia
74681	FLE18TBX/827/B22/T3 BX	18	220-240	B22	8000	2700	1096	82	139	44.5	Australia
74684	FLE18TBX/827/E27/T3 BX	18	220-240	E27	8000	2700	1096	82	140	44.5	Australia
95802P	FLE18TBX/840/B22/T3	18	220-240	B22	8000	4000	1010	76	151	44.5	Australia
95805P	FLE18TBX/840/E27/T3	18	220-240	E27	8000	4000	1010	76	151	44.5	Australia
74703	FLE20TBX/827/B22/T3 BX2	20	220-240	B22	10000	2700	1200	82	151	44.5	Australia
74704	FLE20TBX/827/E27/T3 BX2	20	220-240	E27	10000	2700	1200	82	152	44.5	Australia
74707	FLE20TBX/840/B22/T3 BX2	20	220-240	B22	10000	4000	1152	82	151	44.5	Australia
74708	FLE20TBX/840/E27/T3 BX2	20	220-240	E27	10000	4000	1152	82	152	44.5	Australia
24879E	FLE9TBX/865/E27/T3	9	220-240	E27	8000	6500	460	80	107	45	ID
24880E	FLE9TBX/827/E27/T3	9	220-240	E27	8000	2700	480	80	107	45	ID
95414E	FLE6DBX/827/E27/T3	6	220-240	E27	8000	2700	300	82	108	40	PH
95416E	FLE6DBX/864/E27/T3	6	220-240	E27	8000	6500	280	76	108	40	PH
89584E	FLE9DBX/827/E27/T3	9	220-240	E27	8000	2700	497	82	126	40	PH
89587E	FLE9DBX/864/E27/T3	9	220-240	E27	8000	6500	440	76	126	40	PH
11236E	FLE9TBX/827/E27	9	220-240	E27	8000	2700	480	80	107	45	PH
11238E	FLE9TBX/865/E27	9	220-240	E27	8000	6500	460	80	107	45	PH
11349E	FLE9TBX/827/E14	9	220-240	E14	8000	2700	480	80	109	45	PH
11350E	FLE9TBX/865/E14	9	220-240	E14	8000	6500	460	80	109	45	PH

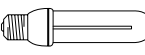


89588E	FLE11DBX/827/E27	11	220-240	E27	8000	2700	615	82	144	44.5	PH
89590E	FLE11DBX/864/E27	11	220-240	E27	8000	6500	590	76	144	44.5	PH
48189EP	FLE12TBX/827/E27	12	220-240	E27	8000	2700	700	80	117	46	PH
48191EP	FLE12TBX/840/E27	12	220-240	E27	8000	4000	700	80	117	46	PH
48193EP	FLE12TBX/865/E27	12	220-240	E27	8000	6500	650	80	117	46	PH
89591E	FLE15TBX/827/E27	15	220-240	E27	8000	2700	872	82	138	44.5	PH
89593E	FLE15TBX/865/E27	15	220-240	E27	8000	6500	800	76	138	44.5	PH
89594E	FLE18TBX/827/E27	18	220-240	E27	8000	2700	1096	82	151	44.5	PH
89596E	FLE18TBX/864/E27	18	220-240	E27	8000	6500	1010	76	151	44.5	PH

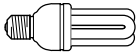
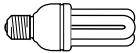
Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Life [h]	CCT [K]	Lumen [lm]	CRI [Ra]	Length [mm]	Diameter [mm]	Country	COO
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T3 Stick - Ultralife

95414EN	FLE6DBX/827/E27	6	220-240	E27	8000	2700	300	82	108	40	SG/MY	China
95416EN	FLE6DBX/865/E27	6	220-240	E27	8000	6500	280	76	108	40	SG/MY	China
89637EN	FLE6DBX/827/E14	6	220-240	E14	8000	2700	300	82	108	40	SG/MY	China
89639EN	FLE6DBX/865/E14	6	220-240	E14	8000	6500	280	76	108	40	SG/MY	China
89584EN	FLE9DBX/827/E27	9	220-240	E27	8000	2700	497	82	126	40	SG/MY	China
89585EN	FLE9DBX/840/E27	9	220-240	E27	8000	4000	440	76	126	40	SG/MY	China
89587EN	FLE9DBX/865/E27	9	220-240	E27	8000	6500	440	76	126	40	SG/MY	China
11236EN	FLE9TBX/827/E27	9	220-240	E27	8000	2700	480	80	107	45	SG/MY	China
11238EN	FLE9TBX/865/E27	9	220-240	E27	8000	6500	460	80	107	45	SG/MY	China
11349EN	FLE9TBX/827/E14	9	220-240	E14	8000	2700	480	80	109	45	SG/MY	China
11350EN	FLE9TBX/865/E14	9	220-240	E14	8000	6500	460	80	109	45	SG/MY	China
89588EN	FLE11DBX/827/E27	11	220-240	E27	8000	2700	615	82	144	44.5	SG/MY	China
89589EN	FLE11DBX/840/E27	11	220-240	E27	8000	4000	590	76	144	44.5	SG/MY	China
89590EN	FLE11DBX/865/E27	11	220-240	E27	8000	6500	590	76	144	44.5	SG/MY	China
89591EN	FLE15TBX/827/E27	15	220-240	E27	8000	2700	872	82	138	44.5	SG/MY	China
89592EN	FLE15TBX/840/E27	15	220-240	E27	8000	4000	800	76	138	44.5	SG/MY	China
89593EN	FLE15TBX/865/E27	15	220-240	E27	8000	6500	800	76	138	44.5	SG/MY	China
89594EN	FLE18TBX/827/E27	18	220-240	E27	8000	2700	1096	82	151	44.5	SG/MY	China
89595EN	FLE18TBX/840/E27	18	220-240	E27	8000	4000	1010	76	151	44.5	SG/MY	China
89596EN	FLE18TBX/865/E27	18	220-240	E27	8000	6500	1010	76	151	44.5	SG/MY	China
95414ET	FLE6DBX/827/E27	6	220-240	E27	8000	2700	300	82	108	40	TH	China
95416ET	FLE6DBX/864/E27	6	220-240	E27	8000	6500	280	76	108	40	TH	China
89637ET	FLE6DBX/827/E14	6	220-240	E14	8000	2700	300	82	108	40	TH	China
89639ET	FLE6DBX/865/E14	6	220-240	E14	8000	6500	280	76	108	40	TH	China
11236ET	FLE9TBX/827/E27	9	220-240	E27	8000	2700	480	80	107	45	TH	China
11237ET	FLE9TBX/840/E27	9	220-240	E27	8000	4000	480	80	107	45	TH	China
11238ET	FLE9TBX/865/E27	9	220-240	E27	8000	6500	460	80	107	45	TH	China
89584ET	FLE9DBX/827/E27	9	220-240	E27	8000	2700	497	82	126	40	TH	China
89585EN	FLE9DBX/840/E27	9	220-240	E27	8000	4000	440	76	126	40	TH	China
89587EN	FLE9DBX/865/E27	9	220-240	E27	8000	6500	440	76	126	40	TH	China
89588ET	FLE11DBX/827/E27	11	220-240	E27	8000	2700	615	82	144	44.5	TH	China
89589ET	FLE11DBX/840/E27	11	220-240	E27	8000	4000	590	76	144	44.5	TH	China
89590ET	FLE11DBX/865/E27	11	220-240	E27	8000	6500	590	76	144	44.5	TH	China
89591ET	FLE15TBX/827/E27	15	220-240	E27	8000	2700	872	82	138	44.5	TH	China
89592ET	FLE15TBX/840/E27	15	220-240	E27	8000	4000	800	76	138	44.5	TH	China
89593ET	FLE15TBX/865/E27	15	220-240	E27	8000	6500	800	76	138	44.5	TH	China
89594ET	FLE18TBX/827/E27	18	220-240	E27	8000	2700	1096	82	151	44.5	TH	China
89595ET	FLE18TBX/840/E27	18	220-240	E27	8000	4000	1010	76	151	44.5	TH	China
89596ET	FLE18TBX/865/E27	18	220-240	E27	8000	6500	1010	76	151	44.5	TH	China



Compact Fluorescent Lamps Integrated



Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Life [h]	CCT [K]	Lumen [lm]	CRI [Ra]	Length [mm]	Diameter [mm]	Country	COO
T3&T4 Stick - Economizer												
24875E	FLE9DBX/827/E27/220-240V	9	220-240	E27	6000	2700	490	80	135	42	ID	China
95595EID	FLE9DBX/865/E27/220-240V	9	220-240	E27	6000	6500	460	80	135	42	ID	China
24876E	FLE15DBX/827/E27/220-240V	15	220-240	E27	6000	2700	875	80	168	46	ID	China
95596EID	FLE15DBX/865/E27/220-240V	15	220-240	E27	6000	6500	810	80	168	46	ID	China
95650EID	FLE20TBX/827/E27/220-240V	20	220-240	E27	6000	2700	1200	80	165	49	ID	China
95597EID	FLE20TBX/865/E27/220-240V	20	220-240	E27	6000	6500	1120	81	165	49	ID	China
24877E	FLE23W/QBX/865/E27	23	220-240	E27	6000	6500	1380	80	167	56	ID	China
24878E	FLE23W/QBX/827/E27	23	220-240	E27	6000	2700	1380	80	167	56	ID	China
11305ET	FLE9DBX/827/E27/6k	9	220-240	E27	6000	2700	490	80	135	42	TH	China
11321ET	FLE9DBX/864/E27/6K	9	220-240	E27	6000	6500	460	80	135	42	TH	China
11324ET	FLE11DBX/827/E27/6K	11	220-240	E27	6000	2700	640	80	152	42	TH	China
11328ET	FLE11DBX/865/E27/6K	11	220-240	E27	6000	6500	590	80	152	42	TH	China
11332ET	FLE15TBX/827/E27/6k	15	220-240	E27	6000	2700	920	80.5	144	49	TH	China
11335ET	FLE15TBX/864/E27/6K	15	220-240	E27	6000	6500	830	80	144	49	TH	China
11336ET	FLE20TBX/827/E27	20	220-240	E27	6000	2700	1200	80	165	49	TH	China
11342ET	FLE20TBX/865/E27	20	220-240	E27	6000	6500	1120	81	165	49	TH	China
95600ET	FLE23QBX/827/E27	23	220-240	E27	6000	2700	1380	80	167	56	TH	China
95602ET	FLE23QBX/865/E27	23	220-240	E27	6000	6500	1380	80	167	56	TH	China

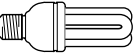
Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Life [h]	CCT [K]	Lumen [lm]	CRI [Ra]	Length [mm]	Diameter [mm]	Country	COO
T3&T4 Economizer Plus												
78168E	FLE5DBX/827/E27/T3 220-240V	5	220-240	E27	6000	2700	200	80	109	38	SG/MY/PH	China
78169E	FLE5DBX/865/E27/T3 220-240V	5	220-240	E27	6000	6500	180	80	109	38	SG/MY/PH	China
78170E	FLE8DBX/827/E27/T3 220-240V	8	220-240	E27	6000	2700	430	80	135	38	SG/MY/PH	China
78171E	FLE8DBX/865/E27/T3 220-240V	8	220-240	E27	6000	6500	390	80	135	38	SG/MY/PH	China
78172E	FLE11DBX/827/E27/T3 220-240V	11	220-240	E27	6000	2700	520	80	145	38	SG/MY/PH	China
78173E	FLE11DBX/865/E27/T3 220-240V	11	220-240	E27	6000	6500	480	80	145	38	SG/MY/PH	China
78174E	FLE14TBX/827/E27/T4 220-240V	14	220-240	E27	6000	2700	820	80	140	44	SG/MY/PH	China
78175E	FLE14TBX/865/E27/T4 220-240V	14	220-240	E27	6000	6500	760	80	140	44	SG/MY/PH	China
78176E	FLE20TBX/827/E27/T4 220-240V	20	220-240	E27	6000	2700	1100	80	160	48	SG/MY/PH	China
78177E	FLE20TBX/865/E27/T4 220-240V	20	220-240	E27	6000	6500	1020	80	160	48	SG/MY/PH	China
78178E	FLE23TBX/827/E27/T4 220-240V	23	220-240	E27	6000	2700	1260	80	170	48	SG/MY/PH	China
78179E	FLE23TBX/865/E27/T4 220-240V	23	220-240	E27	6000	6500	1170	80	170	48	SG/MY/PH	China
64556E	FLE6DBX/827/E27/T3	6	220-240	E27	6000	2700	240	80	111	40	SG/MY/PH	China
64557E	FLE6DBX/865/E27/T3	6	220-240	E27	6000	6500	216	80	111	40	SG/MY/PH	China
64558E	FLE8DBX/827/E27/T3	8	220-240	E27	6000	2700	430	80	126.5	40	SG/MY/PH	China
64559E	FLE8DBX/865/E27/T3	8	220-240	E27	6000	6500	390	80	126.5	40	SG/MY/PH	China
64560E	FLE11DBX/827/E27/T3	11	220-240	E27	6000	2700	532	80	146	44.5	SG/MY/PH	China
64561E	FLE11DBX/865/E27/T3	11	220-240	E27	6000	6500	480	80	146	44.5	SG/MY/PH	China
64562E	FLE14TBX/827/E27/T3	14	220-240	E27	6000	2700	820	80	140	44.5	SG/MY/PH	China
64563E	FLE14TBX/865/E27/T3	14	220-240	E27	6000	6500	760	80	140	44.5	SG/MY/PH	China
64564E	FLE20TBX/827/E27/T3	20	220-240	E27	6000	2700	1100	80	158	44.5	SG/MY/PH	China
64565E	FLE20TBX/865/E27/T3	20	220-240	E27	6000	6500	1020	80	158	44.5	SG/MY/PH	China
64566E	FLE23TBX/827/E27/T3	23	220-240	E27	6000	2700	1260	80	158	44.5	SG/MY/PH	China
64567E	FLE23TBX/865/E27/T3	23	220-240	E27	6000	6500	1170	80	158	44.5	SG/MY/PH	China

95600EN	FLE23QBX/827/E27	23	220-240	E27	6000	2700	1380	80	167	56	SG/MY/PH	China
95601EN	FLE23QBX/840/E27	23	220-240	E27	6000	4000	1380	80	167	56	SG/MY/PH	China
95602EN	FLE23QBX/865/E27	23	220-240	E27	6000	6500	1380	80	167	56	SG/MY/PH	China
65031E	FLE6DBX/827/E14/T3	6	220-240	E14	6000	2700	240	80	108.5	40	SG/MY/TH	China
65032E	FLE6DBX/865/E14/T3	6	220-240	E14	6000	6500	216	80	108.5	40	SG/MY/TH	China
65033E	FLE8DBX/827/E14/T3	8	220-240	E14	6000	2700	430	80	125.5	40	SG/MY/TH	China
65034E	FLE8DBX/865/E14/T3	8	220-240	E14	6000	6500	390	80	125.5	40	SG/MY/TH	China
65035E	FLE11DBX/827/E14/T3	11	220-240	E14	6000	2700	532	80	144.5	44.5	SG/MY/TH	China
65036E	FLE11DBX/865/E14/T3	11	220-240	E14	6000	6500	480	80	144.5	44.5	SG/MY/TH	China
78168T	FLEBX/827/E27/T3 220-240V	6	220-240	E27	6000	2700	240	80	111	40	TH	China
78169T	FLEBX/865/E27/T3 220-240V	6	220-240	E27	6000	6500	216	80	111	40	TH	China
78170T	FLE8DBX/827/E27/T3 220-240V	8	220-240	E27	6000	2700	430	80	126.5	40	TH	China
78171T	FLE8DBX/865/E27/T3 220-240V	8	220-240	E27	6000	6500	390	80	126.5	40	TH	China
78172T	FLE11DBX/827/E27/T3 220-240V	11	220-240	E27	6000	2700	532	80	146	44.5	TH	China
78173T	FLE11DBX/865/E27/T3 220-240V	11	220-240	E27	6000	6500	480	80	146	44.5	TH	China
78174T	FLE14TBX/827/E27/T3 220-240V	14	220-240	E27	6000	2700	820	80	140	44.5	TH	China
78175T	FLE14TBX/865/E27/T3 220-240V	14	220-240	E27	6000	6500	760	80	140	44.5	TH	China
78176T	FLE20TBX/827/E27/T3 220-240V	20	220-240	E27	6000	2700	1100	80	158	44.5	TH	China
78177T	FLE20TBX/865/E27/T3 220-240V	20	220-240	E27	6000	6500	1020	80	158	44.5	TH	China
78178T	FLE23TBX/827/E27/T3 220-240V	23	220-240	E27	6000	2700	1260	80	158	44.5	TH	China
78179T	FLE23TBX/865/E27/T3 220-240V	23	220-240	E27	6000	6500	1170	80	158	44.5	TH	China

Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Life [h]	CCT [K]	Lumen [lm]	CRI [Ra]	Length [mm]	Diameter [mm]	Country	COO
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T4 Stick - Sensor

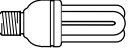
66839TH	FLE15TBX/827/E27 SENSOR	15	220-240	E27	6000	2700	800	80	148	56	TH	China
66841TH	FLE15TBX/865/E27 SENSOR	15	220-240	E27	6000	6500	800	80	148	56	TH	China



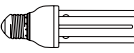
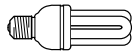
Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Lumen [lm]	CCT [K]	CRI [Ra]	Life [h]	Length [mm]	Diameter [mm]	EEC	COO
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Electronic Stick T3 Mini - 10,000 hours

88697	FLE9TBX/T3/827/E14	9	220-240	E14	480	2700	82	10,000	117	45	A	China
88695	FLE9TBX/T3/827/E27	9	220-240	E27	480	2700	82	10,000	115	45	A	China
88696	FLE9TBX/T3/827/B22	9	220-240	B22	480	2700	82	10,000	114	46	A	China
88700	FLE9TBX/T3/840/E14	9	220-240	E14	455	4000	82	10,000	117	45	A	China
88698	FLE9TBX/T3/840/E27	9	220-240	E27	455	4000	82	10,000	115	45	A	China
88703	FLE9TBX/T3/865/E14	9	220-240	E14	455	6500	82	10,000	117	45	A	China
88701	FLE9TBX/T3/865/E27	9	220-240	E27	455	6500	82	10,000	115	45	A	China
78690	FLE11TBX/T3/827/E14	11	220-240	E14	660	2700	82	10,000	126	45	A	China
72689	FLE11TBX/T3/827/E27	11	220-240	E27	660	2700	82	10,000	124	45	A	China
72690	FLE11TBX/T3/827/B22	11	220-240	B22	660	2700	82	10,000	123	45	A	China
88709	FLE11TBX/T3/840/E14	11	220-240	E14	620	4000	82	10,000	126	45	A	China
88712	FLE11TBX/T3/865/E14	11	220-240	E14	620	6500	82	10,000	126	45	A	China
75730	FLE11TBX/T3/865/E27	11	220-240	E27	620	6500	82	10,000	124	45	A	China
72688	FLE15TBX/T3/827/E27	15	220-240	E27	850	2700	82	10,000	139.5	46	A	China
88713	FLE15TBX/T3/827/B22	15	220-240	B22	850	2700	82	10,000	138.5	45	A	China
88714	FLE15TBX/T3/840/E27	15	220-240	E27	800	4000	82	10,000	139.5	46	A	China



Compact Fluorescent Lamps Integrated



88716	FLE15TBX/T3/865/E27	15	220-240	E27	800	6500	82	10,000	139.5	46	A	China
88718	FLE20TBX/T3/827/E27	20	220-240	E27	1200	1200	82	10,000	153	46	A	China
88719	FLE20TBX/T3/827/B22	20	220-240	B22	1200	1200	82	10,000	153	46	A	China
88720	FLE20TBX/T3/840/E27	20	220-240	E27	1152	4000	82	10,000	153	46	A	China
88722	FLE20TBX/T3/865/E27	20	220-240	E27	1152	6500	82	10,000	153	46	A	China
88723	FLE20TBX/T3/865/B22	20	220-240	B22	1152	6500	82	10,000	153	46	A	China
75039	FLE23QBX/T3/827/B22	23	220-240	B22	1450	2700	82	10,000	147	50	A	China
75268	FLE23QBX/T3/827/E27	23	220-240	E27	1450	2700	82	10,000	147	50	A	China
97000	FLE23QBX/T3/840/E27	23	220-240	E27	1450	4000	82	10,000	147	50	A	China
97006	FLE23QBX/T3/865/E27	23	220-240	E27	1380	6500	82	10,000	147	50	A	China

Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Life [h]	CCT [K]	Lumen [lm]	CRI [Ra]	Length [mm]	Diameter [mm]	Country	COO
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T2 Spiral - Tiny 15000Hrs



89514	FLE10HLX/827/E27/XL	10	220-240	E27	15000	2700	520	80	117	44	Australia	China
89517	FLE10HLX/827/B22/XL	10	220-240	B22	15000	2700	520	80	117	44	Australia	China
89520	FLE15HLX/827/E27/XL	15	220-240	E27	15000	2700	900	80	128	53	Australia	China
89523	FLE15HLX/827/B22/XL	15	220-240	B22	15000	2700	900	80	128	53	Australia	China
89526	FLE20HLX/827/E27/XL	20	220-240	E27	15000	2700	1200	80	127	60	Australia	China
89529	FLE20HLX/827/B22/XL	20	220-240	B22	15000	2700	1200	80	127	60	Australia	China

Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Life [h]	CCT [K]	Lumen [lm]	CRI [Ra]	Length [mm]	Diameter [mm]	Country	COO
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T2 Spiral - Tiny 8000Hrs



74658	FLE8HLX/827/B15/T2	8	220-240	B15	8000	2700	460	80	101.5	46	Australia	China
74659	FLE8HLX/827/B22/T2	8	220-240	B22	8000	2700	460	80	85	46	Australia	China
74660	FLE8HLX/827/E14/T2	8	220-240	E14	8000	2700	460	80	103	46	Australia	China
74661	FLE8HLX/827/E27/T2	8	220-240	E27	8000	2700	460	80	85	46	Australia	China
47375	FLE8HLX/840/E27/T2	8	220-240	E27	8000	4000	460	80	85	46	Australia	China
47382	FLE8HLX/840/E14/T2	8	220-240	E14	8000	4000	460	80	103	46	Australia	China
47385	FLE8HLX/840/B22/T2	8	220-240	B22	8000	4000	460	80	85	46	Australia	China
47386	FLE8HLX/840/B15/T2	8	220-240	B15	8000	4000	460	80	101.5	46	Australia	China
74668	FLE12HLX/827/B15/T2	12	220-240	B15	8000	2700	700	80	110.5	46	Australia	China
74669	FLE12HLX/827/E14/T2	12	220-240	E14	8000	2700	700	80	112	46	Australia	China
30472	FLE12HLX/827/E27/T2	12	220-240	E27	8000	2700	700	80	95	46	Australia	China
30490	FLE12HLX/827/B22/T2	12	220-240	B22	8000	2700	700	80	95	46	Australia	China
47389	FLE12HLX/840/E27/T2	12	220-240	E27	8000	4000	700	80	95	46	Australia	China
47392	FLE12HLX/840/E14/T2	12	220-240	E14	8000	4000	700	80	112	46	Australia	China
47393	FLE12HLX/840/B22/T2	12	220-240	B22	8000	4000	700	80	95	46	Australia	China
47394	FLE12HLX/840/B15/T2	12	220-240	B15	8000	4000	700	80	110.5	46	Australia	China
30474	FLE12HLX/865/E27/T2	12	220-240	E27	8000	6500	660	80	95	46	Australia	China
30492	FLE12HLX/865/B22/T2	12	220-240	B22	8000	6500	660	80	95	46	Australia	China
74677	FLE15HLX/827/B22/T2	15	220-240	B22	8000	2700	900	80	100	53	Australia	China
74678	FLE15HLX/827/E27/T2	15	220-240	E27	8000	2700	900	80	101	53	Australia	China
71040	FLE15HLX/840/E27/T2	15	220-240	E27	8000	4000	900	80	101	53	Australia	China
71308	FLE15HLX/840/B22/T2	15	220-240	B22	8000	4000	900	80	100	53	Australia	China
61414	FLE15HLX/865/T2/B22	15	220-240	B22	8000	6500	850	80	100	53	Australia	China
61415	FLE15HLX/865/T2/E27	15	220-240	E27	8000	6500	850	80	101	53	Australia	China



Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Life [h]	CCT [K]	Lumen [lm]	CRI [Ra]	Length [mm]	Diameter [mm]	Country	COO
74687	FLE20HLX/827/B22/T2	20	220-240	B22	8000	2700	1100	80	104	57	Australia	China
74689	FLE20HLX/827/E27/T2	20	220-240	E27	8000	2700	1100	80	105	57	Australia	China
71043	FLE20HLX/840/E27/T2	20	220-240	E27	8000	4000	1100	80	105	57	Australia	China
71311	FLE20HLX/840/B22/T2	20	220-240	B22	8000	4000	1100	80	104	57	Australia	China
61412	FLE20HLX/865/T2/B22	20	220-240	B22	8000	6500	1040	80	104	57	Australia	China
61413	FLE20HLX/865/T2/E27	20	220-240	E27	8000	6500	1040	80	105	57	Australia	China
30431ID	FLE8HLX/827/E27/T2	8	220-240	E27	8000	2700	460	80	85	46	ID	China
30433ID	FLE8HLX/865/E27/T2	8	220-240	E27	8000	6500	430	80	85	46	ID	China
30472ID	FLE12HLX/827/E27/T2	12	220-240	E27	8000	2700	700	80	95	46	ID	China
30474ID	FLE12HLX/865/E27/T2	12	220-240	E27	8000	6500	660	80	95	46	ID	China
30431EP	FLE8HLX/827E27/T2	8	220-240	E27	8000	2700	460	80	85	46	PH	China
30433EP	FLE8HLX865E27/T2	8	220-240	E27	8000	6500	430	80	85	46	PH	China
47738EP	FLE8HLX/827/E14/T2	8	220-240	E14	8000	2700	460	80	103	46	PH	China
47740EP	FLE8HLX/865/E14/T2	8	220-240	E14	8000	6500	430	80	103	46	PH	China
30472EP	FLE12HLX/827/E27/T2	12	220-240	E27	8000	2700	700	80	95	46	PH	China
30474EP	FLE12HLX/865/E27/T2	12	220-240	E27	8000	6500	660	80	95	46	PH	China
47742EP	FLE12HLX/827/E14/T2	12	220-240	E14	8000	2700	700	80	112	46	PH	China
47755EP	FLE12HLX/865/E14/T2	12	220-240	E14	8000	6500	660	80	112	46	PH	China
71039EN	FLE15HLX/827/T2/E27	15	220-240	E27	8000	2700	900	80	101	53	PH/SG/MY	China
71040EN	FLE15HLX/840/T2/E27	15	220-240	E27	8000	4000	900	80	101	53	PH/SG/MY	China
71041EN	FLE15HLX/865/T2/E27	15	220-240	E27	8000	6500	850	80	101	53	PH/SG/MY	China
71042EN	FLE20HLX/827/T2/E27	20	220-240	E27	8000	2700	1100	80	105	57	PH/SG/MY	China
71043EN	FLE20HLX/840/T2/E27	20	220-240	E27	8000	4000	1100	80	105	57	PH/SG/MY	China
71044EN	FLE20HLX/865/T2/E27	20	220-240	E27	8000	6500	1040	80	105	57	PH/SG/MY	China
30431EN	FLE8HLX/827/E27/T2	8	220-240	E27	8000	2700	460	80	85	46	SG/MY	China
47375EN	FLE8HLX/840/E27/T2	8	220-240	E27	8000	4000	460	80	85	46	SG/MY	China
30433EN	FLE8HLX/865/E27/T2	8	220-240	E27	8000	6500	430	80	85	46	SG/MY	China
47738EN	FLE8HLX/827/E14/T2	8	220-240	E14	8000	2700	460	80	103	46	SG/MY	China
47382EN	FLE8HLX/840/E14/T2	8	220-240	E14	8000	4000	460	80	103	46	SG/MY	China
47740EN	FLE8HLX/865/E14/T2	8	220-240	E14	8000	6500	430	80	103	46	SG/MY	China
30472EN	FLE12HLX/827/E27/T2	12	220-240	E27	8000	2700	700	80	95	46	SG/MY	China
47389EN	FLE12HLX/840/E27/T2	12	220-240	E27	8000	4000	700	80	95	46	SG/MY	China
30474EN	FLE12HLX/865/E27/T2	12	220-240	E27	8000	6500	660	80	95	46	SG/MY	China
47742EN	FLE12HLX/827/E14/T2	12	220-240	E14	8000	2700	700	80	112	46	SG/MY	China
47392EN	FLE12HLX/840/E14/T2	12	220-240	E14	8000	4000	700	80	112	46	SG/MY	China
47755EN	FLE12HLX/865/E14/T2	12	220-240	E14	8000	6500	660	80	112	46	SG/MY	China
30431ET	FLE8HLX/827/E27/T2	8	220-240	E27	8000	2700	460	80	85	46	SG/MY	China
30433ET	FLE8HLX/865/E27/T2	8	220-240	E27	8000	6500	430	80	85	46	SG/MY	China
47738ET	FLE8HLX/827/E14/T2	8	220-240	E14	8000	2700	460	80	103	46	TH	China
47740ET	FLE8HLX/865/E14/T2	8	220-240	E14	8000	6500	430	80	103	46	TH	China
30472ET	FLE12HLX/827/E27/T2	12	220-240	E27	8000	2700	700	80	95	46	TH	China
30474ET	FLE12HLX/865/E27/T2	12	220-240	E27	8000	6500	660	80	95	46	TH	China
47742ET	FLE12HLX/827/E14/T2	12	220-240	E14	8000	2700	700	80	112	46	TH	China
47755ET	FLE12HLX/865/E14/T2	12	220-240	E14	8000	6500	660	80	112	46	TH	China
71039T	FLE15HLX/827/E27/T2	15	220-240	E27	8000	2700	900	80	101	53	TH	China
71040T	FLE15HLX/840/E27/T2	15	220-240	E27	8000	4000	900	80	101	53	TH	China
71041T	FLE15HLX/865/E27/T2	15	220-240	E27	8000	6500	850	80	101	53	TH	China
71042T	FLE20HLX/827/E27/T2	20	220-240	E27	8000	2700	1100	80	105	57	TH	China
71043T	FLE20HLX/840/E27/T2	20	220-240	E27	8000	4000	1100	80	105	57	TH	China
71044T	FLE20HLX/865/E27/T2	20	220-240	E27	8000	6500	1040	80	105	57	TH	China

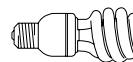


Compact Fluorescent Lamps Integrated

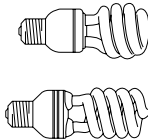


Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Lumen [lm]	CCT [K]	CRI [Ra]	Life [h]	Length [mm]	Diameter [mm]	EEC	COO
Electronic LongLast Spiral T2 - 15,000 hours												
76153	FLE8HLX/T2/827/E14	8	220-240	E14	470	2700	80	15,000	100.5	46	A	China
76154	FLE8HLX/T2/827/E27	8	220-240	E27	470	2700	80	15,000	88.5	46	A	China
78156	FLE8HLX/T2/827/B22	8	220-240	B22	470	2700	80	15,000	88.5	46	A	China
78157	FLE8HLX/T2/840/E14	8	220-240	E14	460	4000	80	15,000	100.5	46	A	China
78188	FLE8HLX/T2/840/E27	8	220-240	E27	460	4000	80	15,000	88.5	46	A	China
78189	FLE8HLX/T2/865/E27	8	220-240	E27	430	6500	80	15,000	88.5	46	A	China
76155	FLE12HLX/T2/827/E14	12	220-240	E14	715	2700	80	15,000	112.5	53	A	China
76157	FLE12HLX/T2/827/E27	12	220-240	E27	715	2700	80	15,000	100	53	A	China
78190	FLE12HLX/T2/827/B22	12	220-240	B22	715	2700	80	15,000	100	53	A	China
78191	FLE12HLX/T2/840/E14	12	220-240	E14	700	4000	80	15,000	112.5	53	A	China
78192	FLE12HLX/T2/840/E27	12	220-240	E27	700	4000	80	15,000	100	53	A	China
78193	FLE12HLX/T2/865/E14	12	220-240	E14	665	6500	80	15,000	112.5	53	A	China
78194	FLE12HLX/T2/865/E27	12	220-240	E27	665	6500	80	15,000	100	53	A	China
76156	FLE15HLX/T2/827/E27	15	220-240	E27	950	2700	80	15,000	100	53	A	China
78195	FLE15HLX/T2/827/B22	15	220-240	B22	950	2700	80	15,000	100	53	A	China
78196	FLE15HLX/T2/840/E27	15	220-240	E27	950	4000	80	15,000	100	53	A	China
78197	FLE15HLX/T2/865/E27	15	220-240	E27	900	6500	80	15,000	100	53	A	China
76158	FLE20HLX/T2/827/E27	20	220-240	E27	1220	2700	80	15,000	108	57	A	China
78198	FLE20HLX/T2/827/B22	20	220-240	B22	1220	2700	80	15,000	108	57	A	China
78199	FLE20HLX/T2/840/E27	20	220-240	E27	1200	4000	80	15,000	108	57	A	China
78200	FLE20HLX/T2/865/E27	20	220-240	E27	1152	6500	80	15,000	108	57	A	China
76159	FLE23HLX/T2/827/E27	23	220-240	E27	1500	2700	80	15,000	127	58	A	China
78202	FLE23HLX/T2/840/E27	23	220-240	E27	1380	4000	80	15,000	127	58	A	China
78203	FLE23HLX/T2/865/E27	23	220-240	E27	1380	6500	80	15,000	127	58	A	China

Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Life [h]	CCT [K]	Lumen [lm]	CRI [Ra]	Length [mm]	Diameter [mm]	Country	COO
T3 Spiral-Ultralife Plus												
85940	FLE14HLX/827/B22/T3	14	220-240	B22	8000	2700	950	80	128	53	Australia	China
85942	FLE14HLX/827/E27/T3	14	220-240	E27	8000	2700	950	80	128	53	Australia	China
74709	FLE14HLX/827/B22/T3 BX2	14	220-240	B22	8000	2700	950	80	128	53	Australia	China
74710	FLE14HLX/827/E27/T3 BX2	14	220-240	E27	8000	2700	950	80	128	53	Australia	China
90147	FLE14HLX/840/E27/T3	14	220-240	E27	8000	4000	950	80	128	53	Australia	China
90148	FLE14HLX/840/B22/T3	14	220-240	B22	8000	4000	950	80	128	53	Australia	China
74715	FLE14HLX/840/B22/T3 BX2	14	220-240	B22	8000	4000	950	80	128	53	Australia	China
74716	FLE14HLX/840/E27/T3 BX2	14	220-240	E27	8000	4000	950	80	128	53	Australia	China
85956	FLE20HLX/827/B22/T3	20	220-240	B22	8000	2700	1350	80	124	60	Australia	China
85966	FLE20HLX/827/E27/T3	20	220-240	E27	8000	2700	1350	80	124	60	Australia	China
74711	FLE20HLX/827/B22/T3 BX2	20	220-240	B22	8000	2700	1350	80	124	60	Australia	China
74712	FLE20HLX/827/E27/T3 BX2	20	220-240	E27	8000	2700	1350	80	124	60	Australia	China
90145	FLE20HLX/840/E27/T3	20	220-240	E27	8000	4000	1300	80	124	60	Australia	China
90146	FLE20HLX/840/B22/T3	20	220-240	B22	8000	4000	1300	80	124	60	Australia	China
74717	FLE20HLX/840/B22/T3 BX2	20	220-240	B22	8000	4000	1300	80	124	60	Australia	China
74718	FLE20HLX/840/E27/T3 BX2	20	220-240	E27	8000	4000	1300	80	124	60	Australia	China
76598	FLE23HLX/827/B22/T2 BX2	23	220-240	B22	8000	2700	1380	80	127	57	Australia	China
76599	FLE23HLX/827/E27/T2 BX2	23	220-240	E27	8000	2700	1380	80	128	57	Australia	China
76600	FLE23HLX/840/B22/T2 BX2	23	220-240	B22	8000	4000	1380	80	127	57	Australia	China
76601	FLE23HLX/840/E27/T2 BX2	23	220-240	E27	8000	4000	1380	80	128	57	Australia	China
81262	FLE14HLX/827/E27/T3 220-240V	14	220-240	E27	8000	2700	950	80	128	53	ID	China
81263	FLE14HLX/865/E27/T3 220-240V	14	220-240	E27	8000	6500	900	80	128	53	ID	China
81264	FLE20HLX/827/E27/T3 220-240V	20	220-240	E27	8000	2700	1350	80	124	60	ID	China
81265	FLE20HLX/865/E27/T3 220-240V	20	220-240	E27	8000	6500	1260	80	124	60	ID	China
81266	FLE24HLX/827/E27/T3 220-240V	24	220-240	E27	8000	2700	1750	80	136	60	ID	China
81267	FLE24HLX/865/E27/T3 220-240V	24	220-240	E27	8000	6500	1650	80	136	60	ID	China
24172E	FLE14HLX/827/T3	14	220-240	E27	8000	2700	950	80	128	53	PH	China
24173E	FLE14HLX/865/E27/T3	14	220-240	E27	8000	6500	900	80	128	53	PH	China
24174E	FLE20HLX/827/T3	20	220-240	E27	8000	2700	1350	80	124	60	PH	China
24175E	FLE20HLX/865/E27/T3	20	220-240	E27	8000	6500	1260	80	124	60	PH	China
24176E	FLE24HLX/827/T3	24	220-240	E27	8000	2700	1750	80	136	60	PH	China
24177E	FLE24HLX/E27/T3	24	220-240	E27	8000	6500	1650	80	136	60	PH	China
24172EN	FLE14HLX/827/E27/T3 220-240V	14	220-240	E27	8000	2700	950	80	128	53	SG/MY	China
71402EN	FLE14HLX/840/E27/T3 220-240V	14	220-240	E27	8000	4000	950	80	128	53	SG/MY	China
24173EN	FLE14HLX/865/E27/T3 220-240V	14	220-240	E27	8000	6500	900	80	128	53	SG/MY	China
24174EN	FLE20HLX/827/E27/T3 220-240V	20	220-240	E27	8000	2700	1350	80	124	60	SG/MY	China
80961EN	FLE20HLX/840/E27/T3 220-240V	20	220-240	E27	8000	4000	1300	80	124	60	SG/MY	China
24175EN	FLE20HLX/865/E27/T3 220-240V	20	220-240	E27	8000	6500	1260	80	124	60	SG/MY	China
24176EN	FLE24HLX/827/E27/T3 220-240V	24	220-240	E27	8000	2700	1750	80	136	60	SG/MY	China
71400EN	FLE24HLX/840/E27/T3 220-240V	24	220-240	E27	8000	4000	1700	80	136	60	SG/MY	China
24177EN	FLE24HLX/865/E27/T3 220-240V	24	220-240	E27	8000	6500	1650	80	136	60	SG/MY	China
24172ET	FLE14HLX/827/E27/T3 EDIS	14	220-240	E27	8000	2700	950	80	128	53	TH	China
24173ET	FLE14HLX/865/E27/T3 EDIS	14	220-240	E27	8000	6500	900	80	128	53	TH	China
24174ET	FLE20HLX/827/E27/T3 EDIS	20	220-240	E27	8000	2700	1350	80	124	60	TH	China
24175ET	FLE20HLX/865/E27/T3 EDIS	20	220-240	E27	8000	6500	1260	80	124	60	TH	China
24176ET	FLE24HLX/827/E27/T3 EDIS	24	220-240	E27	8000	2700	1750	80	136	60	TH	China
24177ET	FLE24HLX/865/E27/T3 EDIS	24	220-240	E27	8000	6500	1650	80	136	60	TH	China



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Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Life [h]	CCT [K]	Lumen [lm]	CRI [Ra]	Length [mm]	Diameter [mm]	Country	COO
T3 Spiral - Economizer Plus												
64568E	FLE9HLX/827/E27/T3	9	220-240	E27	6000	2700	430	80	116	44	SG/MY/PH	China
64569E	FLE9HLX/865/E27/T3	9	220-240	E27	6000	6500	390	80	116	44	SG/MY/PH	China
64570E	FLE14HLX/827/E27/T3	14	220-240	E27	6000	2700	820	80	129	52	SG/MY/PH	China
64571E	FLE14HLX/865/E27/T3	14	220-240	E27	6000	6500	760	80	129	52	SG/MY/PH	China
64572E	FLE20HLX/827/E27/T3	20	220-240	E27	6000	2700	1100	80	126	59	SG/MY/PH	China
64573E	FLE20HLX/865/E27/T3	20	220-240	E27	6000	6500	1020	80	126	59	SG/MY/PH	China
64574E	FLE23HLX/827/E27/T3	23	220-240	E27	6000	2700	1320	80	139.5	59	SG/MY/PH	China
64575E	FLE23HLX/865/E27/T3	23	220-240	E27	6000	6500	1224	80	139.5	59	SG/MY/PH	China
78180E	FLE9HLX/827/E27/T3 220-240V	9	220-240	E27	6000	2700	430	80	110	52	SG/MY/PH	China
78181E	FLE9HLX/865/E27/T3 220-240V	9	220-240	E27	6000	6500	390	80	110	52	SG/MY/PH	China
78182E	FLE15HLX/827/E27/T3 220-240V	15	220-240	E27	6000	2700	820	80	126	52	SG/MY/PH	China
78183E	FLE15HLX/865/E27/T3 220-240V	15	220-240	E27	6000	6500	760	80	126	52	SG/MY/PH	China
78184E	FLE20HLX/827/E27/T3 220-240V	20	220-240	E27	6000	2700	1100	80	125	62	SG/MY/PH	China
78185E	FLE20HLX/865/E27/T3 220-240V	20	220-240	E27	6000	6500	1020	80	125	62	SG/MY/PH	China
78186E	FLE23HLX/827/E27/T3 220-240V	23	220-240	E27	6000	2700	1260	80	137	62	SG/MY/PH	China
78187E	FLE23HLX/865/E27/T3 220-240V	23	220-240	E27	6000	6500	1170	80	137	62	SG/MY/PH	China
65037E	FLE9HLX/827/E14/T3	9	220-240	E14	6000	2700	430	80	117	44	SG/MY/TH	China
65038E	FLE9HLX/865/E14/T3	9	220-240	E14	6000	6500	390	80	117	44	SG/MY/TH	China
78180T	FLE9HLX/827/E27/T3 220-240V	9	220-240	E27	6000	2700	430	80	116	44	TH	China
78181T	FLE9HLX/865/E27/T3 220-240V	9	220-240	E27	6000	6500	390	80	116	44	TH	China
78182T	FLE14HLX/827/E27/T3 220-240V	14	220-240	E27	6000	2700	820	80	129	52	TH	China
78183T	FLE14HLX/865/E27/T3 220-240V	14	220-240	E27	6000	6500	760	80	129	52	TH	China
78184T	FLE20HLX/827/E27/T3 220-240V	20	220-240	E27	6000	2700	1100	80	126	59	TH	China
78185T	FLE20HLX/865/E27/T3 220-240V	20	220-240	E27	6000	6500	1020	80	126	59	TH	China
78186T	FLE23HLX/827/E27/T3 220-240V	23	220-240	E27	6000	2700	1320	80	139.5	59	TH	China
78187T	FLE23HLX/865/E27/T3 220-240V	23	220-240	E27	6000	6500	1224	80	139.5	59	TH	China
63406	FLE10HLX/T3/840/220-240V/E27/6H	10	220-240	E27	6000	4000	550	80	105	43	SG/MY/PH/VN	China
63407	FLE10HLX/T3/840/220-240V/E14/6H	10	220-240	E14	6000	4000	550	80	105	43	SG/MY/PH/VN	China
63413	FLE14HLX/T3/827/220-240V/E27/6H	14	220-240	E27	6000	2700	820	80	119	52	SG/MY/PH/VN	China
63414	FLE14HLX/T3/840/220-240V/E27/6H	14	220-240	E27	6000	4000	820	80	119	52	SG/MY/PH/VN	China
63428	FLE14HLX/T3/865/220-240V/E27/6H	14	220-240	E27	6000	6500	820	80	119	52	SG/MY/PH/VN	China
63429	FLE18HLX/T3/827/220-240V/E27/6H	18	220-240	E27	6000	2700	1100	80	116	59	SG/MY/PH/VN	China
63430	FLE18HLX/T3/840/220-240V/E27/6H	18	220-240	E27	6000	4000	1100	82	116	59	SG/MY/PH/VN	China
63431	FLE18HLX/T3/865/220-240V/E27/6H	18	220-240	E27	6000	6500	1100	82	116	59	SG/MY/PH/VN	China
63480	FLE23HLX/T3/827/220-240V/E27/6H	23	220-240	E27	6000	2700	1380	82	121	59	SG/MY/PH/VN	China
63481	FLE23HLX/T3/840/220-240V/E27/6H	23	220-240	E27	6000	4000	1380	82	121	59	SG/MY/PH/VN	China
63507	FLE23HLX/T3/865/220-240V/E27/6H	23	220-240	E27	6000	6500	1380	82	121	59	SG/MY/PH/VN	China

Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Life [h]	CCT [K]	Lumen [lm]	CRI [Ra]	Length [mm]	Diameter [mm]	Country	COO
T3 Spiral - Dimmable												
30606a	FLE13HLX/827/B22/DIM BP1	13	220-240	B22	8000	2700	850	80	133	60	Australia	China
74674	FLE13HLX/827/E27/DIM BP1	13	220-240	E27	8000	2700	850	80	133	60	Australia	China
74675	FLE13HLX/865/B22/DIM	13	220-240	B22	8000	6500	765	80	133	60	Australia	China
74676	FLE13HLX/865/E27/DIM	13	220-240	E27	8000	6500	765	80	133	60	Australia	China
30608a	FLE20HLX/827/E27/DIM BP1	20	220-240	E27	8000	2700	1350	80	138	60	Australia	China
30616A	FLE20HLX/827/B22/DIM BP1	20	220-240	B22	8000	2700	1350	80	138	60	Australia	China
30544A	FLE20HLX/865/B22/DIM	20	220-240	B22	8000	6500	1215	80	138	60	Australia	China
30540A	FLE20HLX/865/E27/DIM	20	220-240	E27	8000	6500	1215	80	138	60	Australia	China
30493N	FLE13HLX/827/E27/T3DIM*	13	230	E27	8000	2700	850	80	133	60	SG/MY/TH	China
30494N	FLE13HLX/865/E27/T3DIM*	13	230	E27	8000	6500	765	80	133	60	SG/MY/TH	China
30523N	FLE20HLX/827/E27/T3DIM*	20	230	E27	8000	2700	1350	80	138	60	SG/MY/TH	China
30540N	FLE20HLX/865/E27/T3DIM*	20	230	E27	8000	6500	1215	80	138	60	SG/MY/TH	China

T5 Spiral-High Power												
24666EN	FLE45HLX/864/E27/220-240V	45	220-240	E27	6000	6500	2900	83	211	80	Indonesia	China
95495EN	FLE60HLX/864/E27/220-240V	60	220-240	E27	6000	6500	3400	82	218	80	Indonesia	China
24666E	FLE45HLX/864/E27	45	220-240	E27	6000	6500	2900	83	211	80	PH	China
24668E	FLE60HLX/864/E27	60	220-240	E27	6000	6500	3400	82	218	80	PH	China
95520	FLE60HLX/827/E27 220-240V	60	220-240	E27	6000	2700	3600	82	218	80	SG/MY	China
95495	FLE60HLX/865/E27 220-240V	60	220-240	E27	6000	6500	3400	82	218	80	SG/MY	China
61429T	FLE45HLX/827/E27 220V	45	220-240	E27	6000	2700	2900	83	211	80	Thailand	China
61430T	FLE45HLX/865/E27 220V	45	220-240	E27	6000	6500	2900	83	211	80	Thailand	China
61431T	FLE60HLX/827/E27 220V	60	220-240	E27	6000	2700	3600	82	218	80	Thailand	China
61432T	FLE60HLX/865/E27 220V	60	220-240	E27	6000	6500	3400	82	218	80	Thailand	China
69970E	FLE45HLX/840/E27/T5	45	220-240	E27	10,000	4000	3250	80	233	80	SG/MY/PH	China
69973E	FLE45HLX/865/E27/T5	45	220-240	E27	10,000	6500	3000	80	233	80	SG/MY/PH	China
69972E	FLE45HLX/840/E40/T5	45	220-240	E40	10,000	4000	3250	80	244	80	SG/MY/PH	China
69975E	FLE45HLX/865/E40/T5	45	220-240	E40	10,000	6500	3000	80	244	80	SG/MY/PH	China
69971E	FLE45HLX/840/B22/T5	45	220-240	B22	10,000	4000	3250	80	233	80	SG/MY/PH	China
69974E	FLE45HLX/865/B22/T5	45	220-240	B22	10,000	6500	3000	80	233	80	SG/MY/PH	China



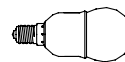
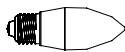
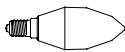
Compact Fluorescent Lamps Integrated



Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Life [h]	CCT [K]	Lumen [lm]	CRI [Ra]	Length [mm]	Diameter [mm]	Country	COO
Decor - T2 All Glass												
61001E	FLE9AG/T2/830/E27	9	220-240	E27	10000	3000	450	80	115.7	62	SG/MY	China
61002E	FLE9AG/T2/840/E27	9	220-240	E27	10000	4000	450	80	115.7	62	SG/MY	China
61003E	FLE9AG/T2/865/E27	9	220-240	E27	10000	6500	450	80	115.7	62	SG/MY	China
61004E	FLE11AG/T2/830/E27	11	220-240	E27	10000	3000	590	80	115.7	62	SG/MY	China
61005E	FLE11AG/T2/840/E27	11	220-240	E27	10000	4000	550	80	115.7	62	SG/MY	China
61006E	FLE11AG/T2/865/E27	11	220-240	E27	10000	6500	532	80	115.7	62	SG/MY	China
61007E	FLE15AG/T2/830/E27	15	220-240	E27	10000	3000	800	80	115.7	62	SG/MY	China
61008E	FLE15AG/T2/840/E27	15	220-240	E27	10000	4000	800	80	115.7	62	SG/MY	China
61009E	FLE15AG/T2/865/E27	15	220-240	E27	10000	6500	800	80	115.7	62	SG/MY	China
61010E	FLE20AG/T3/830/E27	20	220-240	E27	8000	3000	1152	80	137.9	69	SG/MY	China
61011E	FLE20AG/T3/840/E27	20	220-240	E27	8000	4000	1152	80	137.9	69	SG/MY	China
61012E	FLE20AG/T3/865/E27	20	220-240	E27	8000	6500	1152	80	137.9	69	SG/MY	China
61013E	FLE9AG/T2/830/B22	9	220-240	B22	10000	3000	450	80	118	62	SG/MY	China
61014E	FLE9AG/T2/840/B22	9	220-240	B22	10000	4000	450	80	118	62	SG/MY	China
61015E	FLE9AG/T2/865/B22	9	220-240	B22	10000	6500	450	80	118	62	SG/MY	China
61016E	FLE11AG/T2/830/B22	11	220-240	B22	10000	3000	590	80	118	62	SG/MY	China
61017E	FLE11AG/T2/840/B22	11	220-240	B22	10000	4000	550	80	118	62	SG/MY	China
61018E	FLE11AG/T2/865/B22	11	220-240	B22	10000	6500	532	80	118	62	SG/MY	China
61019E	FLE15AG/T2/830/B22	15	220-240	B22	10000	3000	800	80	118	62	SG/MY	China
61020E	FLE15AG/T2/840/B22	15	220-240	B22	10000	4000	800	80	118	62	SG/MY	China
61021E	FLE15AG/T2/865/B22	15	220-240	B22	10000	6500	800	80	118	62	SG/MY	China
61022E	FLE20AG/T3/830/B22	20	220-240	B22	8000	3000	1152	80	140.2	69	SG/MY	China
61023E	FLE20AG/T3/840/B22	20	220-240	B22	8000	4000	1152	80	140.2	69	SG/MY	China
61024E	FLE20AG/T3/865/B22	20	220-240	B22	8000	6500	1152	80	140.2	69	SG/MY	China
61001T	FLE9AG/T2/830/E27	9	220-240	E27	10000	3000	450	80	115.7	62	TH	China
61002T	FLE9AG/T2/840/E27	9	220-240	E27	10000	4000	450	80	115.7	62	TH	China
61003T	FLE9AG/T2/865/E27	9	220-240	E27	10000	6500	450	80	115.7	62	TH	China
61004T	FLE11AG/T2/830/E27	11	220-240	E27	10000	3000	590	80	115.7	62	TH	China
61005T	FLE11AG/T2/840/E27	11	220-240	E27	10000	4000	550	80	115.7	62	TH	China
61006T	FLE11AG/T2/865/E27	11	220-240	E27	10000	6500	532	80	115.7	62	TH	China
61007T	FLE15AG/T2/830/E27	15	220-240	E27	10000	3000	800	80	115.7	62	TH	China
61008T	FLE15AG/T2/840/E27	15	220-240	E27	10000	4000	800	80	115.7	62	TH	China
61009T	FLE15AG/T2/865/E27	15	220-240	E27	10000	6500	800	80	115.7	62	TH	China
61010T	FLE20AG/T3/830/E27	20	220-240	E27	8000	3000	1152	80	137.9	69	TH	China
61011T	FLE20AG/T3/840/E27	20	220-240	E27	8000	4000	1152	80	137.9	69	TH	China
61012T	FLE20AG/T3/865/E27	20	220-240	E27	8000	6500	1152	80	137.9	69	TH	China
61013T	FLE9AG/T2/830/B22	9	220-240	B22	10000	3000	450	80	118	62	TH	China
61014T	FLE9AG/T2/840/B22	9	220-240	B22	10000	4000	450	80	118	62	TH	China
61015T	FLE9AG/T2/865/B22	9	220-240	B22	10000	6500	450	80	118	62	TH	China
61016T	FLE11AG/T2/830/B22	11	220-240	B22	10000	3000	590	80	118	62	TH	China
61017T	FLE11AG/T2/840/B22	11	220-240	B22	10000	4000	550	80	118	62	TH	China
61018T	FLE11AG/T2/865/B22	11	220-240	B22	10000	6500	532	80	118	62	TH	China
61019T	FLE15AG/T2/830/B22	15	220-240	B22	10000	3000	800	80	118	62	TH	China
61020T	FLE15AG/T2/840/B22	15	220-240	B22	10000	4000	800	80	118	62	TH	China
61021T	FLE15AG/T2/865/B22	15	220-240	B22	10000	6500	800	80	118	62	TH	China
61022T	FLE20AG/T3/830/B22	20	220-240	B22	8000	3000	1152	80	140.2	69	TH	China
61023T	FLE20AG/T3/840/B22	20	220-240	B22	8000	4000	1152	80	140.2	69	TH	China
61024T	FLE20AG/T3/865/B22	20	220-240	B22	8000	6500	1152	80	140.2	69	TH	China

Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Life [h]	CCT [K]	Lumen [lm]	CRI [Ra]	Length [mm]	Diameter [mm]	Country	COO
Decor - Candle												
88852A	FLE5CDL//827/E27/T2	5	220-240	E27	10000	2700	200	80	107	38	Australia	China
88853A	FLE5CDL//827/B22/T2	5	220-240	B22	10000	2700	200	80	106	38	Australia	China
73406A	FLE5CDL//827/E14/T2	5	220-240	E14	10000	2700	200	80	110	38	Australia	China
78005A	FLE5CDL/827/B15/T2	5	220-240	B15	10000	2700	200	80	110	38	Australia	China
73411A	FLE7CDL//827/E14/T2	7	220-240	E14	10000	2700	300	80	110	38	Australia	China
88855A	FLE7CDL//827/E27/T2	7	220-240	E27	10000	2700	300	80	107	38	Australia	China
88856A	FLE7CDL//827/B22/T2	7	220-240	B22	10000	2700	300	80	106	38	Australia	China
78006A	FLE7CDL/827/B15/T2	7	220-240	B15	10000	2700	300	80	110	38	Australia	China
79935E	FLE5CDL/T2/827/E14	5	220-240	E14	10000	2700	200	80	110	38	ID/MY/SG/PH	China
79936E	FLE5CDL/T2/840/E14	5	220-240	E14	10000	4000	200	80	110	38	ID/MY/SG/PH	China
79937E	FLE5CDL/T2/827/E27	5	220-240	E27	10000	2700	200	80	107	38	ID/MY/SG/PH	China
79938E	FLE5CDL/T2/840/E27	5	220-240	E27	10000	4000	200	80	107	38	ID/MY/SG/PH	China
79939E	FLE5CDL/T2/827/B22	5	220-240	B22	10000	2700	200	80	106	38	ID/MY/SG/PH	China
79940E	FLE7CDL/T2/827/E14	7	220-240	E14	10000	2700	300	80	110	38	ID/MY/SG/PH	China
79941E	FLE7CDL/T2/840/E14	7	220-240	E14	10000	4000	300	80	110	38	ID/MY/SG/PH	China
79942E	FLE7CDL/T2/827/E27	7	220-240	E27	10000	2700	300	80	107	38	ID/MY/SG/PH	China
79943E	FLE7CDL/T2/840/E27	7	220-240	E27	10000	4000	300	80	107	38	ID/MY/SG/PH	China
79944E	FLE7CDL/T2/827/B22	7	220-240	B22	10000	2700	300	80	106	38	ID/MY/SG/PH	China

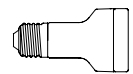
Decor - Spherical												
88839A	FLE5SPH//827/E14/T2	5	220-240	E14	10000	2700	200	80	102	46	Australia	China
88841A	FLE5SPH//827/B22/T2	5	220-240	B22	10000	2700	200	80	90	46	Australia	China
73386A	FLE5SPH//827/E27/T2	5	220-240	E27	10000	2700	200	80	91	46	Australia	China
78012A	FLE5SPH/827/B15/T2	5	220-240	B15	10000	2700	200	80	100	46	Australia	China
88842A	FLE7SPH//827/E14/T2	7	220-240	E14	10000	2700	310	80	102	46	Australia	China
88844A	FLE7SPH//827/B22/T2	7	220-240	B22	10000	2700	310	80	90	46	Australia	China
73396A	FLE7SPH//827/E27/T2	7	220-240	E27	10000	2700	310	80	91	46	Australia	China
78013A	FLE7SPH/827/B15/T2	7	220-240	B15	10000	2700	310	80	100	46	Australia	China
79945E	FLE5SPH/T2/827/E14	5	220-240	E14	10000	2700	200	80	102	46	ID/MY/SG/PH	China
79946E	FLE5SPH/T2/840/E14	5	220-240	E14	10000	4000	200	80	102	46	ID/MY/SG/PH	China
79947E	FLE5SPH/T2/827/E27	5	220-240	E27	10000	2700	200	80	91	46	ID/MY/SG/PH	China
79948E	FLE5SPH/T2/840/E27	5	220-240	E27	10000	4000	200	80	91	46	ID/MY/SG/PH	China
79949E	FLE5SPH/T2/865/E27	5	220-240	E27	10000	6500	190	80	91	46	ID/MY/SG/PH	China
79950E	FLE5SPH/T2/827/B22	5	220-240	B22	10000	2700	200	80	90	46	ID/MY/SG/PH	China
79951E	FLE7SPH/T2/827/E14	7	220-240	E14	10000	2700	310	80	102	46	ID/MY/SG/PH	China
79952E	FLE7SPH/T2/840/E14	7	220-240	E14	10000	4000	310	80	102	46	ID/MY/SG/PH	China
79953E	FLE7SPH/T2/827/E27	7	220-240	E27	10000	2700	310	80	91	46	ID/MY/SG/PH	China
79954E	FLE7SPH/T2/840/E27	7	220-240	E27	10000	4000	310	80	91	46	ID/MY/SG/PH	China
79955E	FLE7SPH/T2/827/B22	7	220-240	B22	10000	2700	310	80	90	46	ID/MY/SG/PH	China



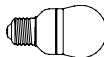
Compact Fluorescent Lamps Integrated



Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Life [h]	CCT [K]	Lumen [lm]	CRI [Ra]	Length [mm]	Diameter [mm]	Country	COO
Decor - GLS												
45850A	FLE8GLS//827/E27/T2	8	220-240	E27	6000	2700	370	80	102	53.5	Australia	China
45849A	FLE8GLS//827/B22 /T2	8	220-240	B22	6000	2700	370	80	101	53.5	Australia	China
45848A	FLE8GLS//827/E14/T2	8	220-240	E14	6000	2700	370	80	105.5	53.5	Australia	China
45837A	FLE12GLS//827/E27/T2	12	220-240	E27	6000	2700	625	80	112	57	Australia	China
45836A	FLE12GLS//827/B22/T2	12	220-240	B22	6000	2700	625	80	111	57	Australia	China
45835A	FLE12GLS//827/E14/T2	12	220-240	E14	6000	2700	625	80	115.5	57	Australia	China
45830A	FLE15GLS//827/B22/T3	15	220-240	B22	6000	2700	830	80	122	62	Australia	China
45831A	FLE15GLS//827/E27/T3	15	220-240	E27	6000	2700	830	80	123	62	Australia	China
80375	FLE11GLS/O/B22 BP1	11	220-240	B22	6000	2700	530	80	132	62	Australia	China
80376	FLE11GLS/O/E27 BP1	11	220-240	E27	6000	2700	530	80	132	62	Australia	China
80389	FLE20GLS/O/B22 BP1	20	220-240	B22	6000	2700	1050	82	158	72.5	Australia	China
80390	FLE20GLS/O/E27 BP1	20	220-240	E27	6000	2700	1050	82	158	72.5	Australia	China
79972E	FLE8GLS/T2/827/E14	8	220-240	E14	6000	2700	370	80	105.5	53.5	ID/MY/SG/PH	China
79973E	FLE8GLS/T2/840/E14	8	220-240	E14	6000	4000	370	80	105.5	53.5	ID/MY/SG/PH	China
79974E	FLE8GLS/T2/827/E27	8	220-240	E27	6000	2700	370	80	102	53.5	ID/MY/SG/PH	China
79975E	FLE8GLS/T2/840/E27	8	220-240	E27	6000	4000	370	80	102	53.5	ID/MY/SG/PH	China
79976E	FLE8GLS/T2/827/B22	8	220-240	B22	6000	2700	370	80	101	53.5	ID/MY/SG/PH	China
79977E	FLE12GLS/T2/827/E27	12	220-240	E27	6000	2700	625	80	112	57	ID/MY/SG/PH	China
79978E	FLE12GLS/T2/827/E14	12	220-240	E14	6000	2700	625	80	115.5	57	ID/MY/SG/PH	China
79979E	FLE12GLS/T2/840/E14	12	220-240	E14	6000	4000	600	80	115.5	57	ID/MY/SG/PH	China
79980E	FLE12GLS/T2/840/E27	12	220-240	E27	6000	4000	600	80	112	57	ID/MY/SG/PH	China
79981E	FLE12GLS/T2/827/B22	12	220-240	B22	6000	2700	625	80	111	57	ID/MY/SG/PH	China
79982E	FLE15GLS/T3/827/E27	15	220-240	E27	6000	2700	830	80	123	62	ID/MY/SG/PH	China
79983E	FLE15GLS/T3/840/E27	15	220-240	E27	6000	4000	825	80	123	62	ID/MY/SG/PH	China
79984E	FLE15GLS/T3/827/B22	15	220-240	B22	6000	2700	830	80	122	62	ID/MY/SG/PH	China



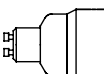
Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Life [h]	CCT [K]	Intensity [Cd]	Lumen [lm]	CRI [Ra]	Length [mm]	Diameter [mm]	Country	COO
Decor - REF													
79956E	FLE7R50/T2/827/E14	7	220-240	E14	6000	2700	65	90	80	93	51	ID/MY/SG/PH	China
79957E	FLE7R50/T2/840/E14	7	220-240	E14	6000	4000	65	90	80	93	51	ID/MY/SG/PH	China
79958E	FLE7R50/T2/827/E27	7	220-240	E27	6000	2700	65	90	80	93	51	ID/MY/SG/PH	China
79959E	FLE7R50/T2/827/B22	7	220-240	B22	6000	2700	65	90	80	92	51	ID/MY/SG/PH	China
79960E	FLE11R63/T2/827/E14	11	220-240	E14	6000	2700	85	185	80	107	64	ID/MY/SG/PH	China
79961E	FLE11R63/T2/840/E14	11	220-240	E14	6000	4000	85	185	80	107	64	ID/MY/SG/PH	China
79962E	FLE11R63/T2/827/E27	11	220-240	E27	6000	2700	85	185	80	107	64	ID/MY/SG/PH	China
79963E	FLE11R63/T2/827/B22	11	220-240	B22	6000	2700	85	185	80	106	64	ID/MY/SG/PH	China



Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Life [h]	CCT [K]	Lumen [lm]	CRI [Ra]	Length [mm]	Diameter [mm]	Country	COO
Decor - SOFT												
79964E	FLE8SOFT/T2/827/E14	8	220-240	E14	6000	2700	360	80	109.5	54.5	ID/MY/SG/PH	China
79965E	FLE8SOFT/T2/827/E27	8	220-240	E27	6000	2700	360	80	106	54.5	ID/MY/SG/PH	China
79966E	FLE8SOFT/T2/827/B22	8	220-240	B22	6000	2700	360	80	105	54.5	ID/MY/SG/PH	China
79967E	FLE12SOFT/T2/827/E14	12	220-240	E14	6000	2700	600	80	119.5	57	ID/MY/SG/PH	China
79968E	FLE12SOFT/T2/827/E27	12	220-240	E27	6000	2700	600	80	116	57	ID/MY/SG/PH	China
79969E	FLE12SOFT/T2/827/B22	12	220-240	B22	6000	2700	600	80	115	57	ID/MY/SG/PH	China
79970E	FLE15SOFT/T3/827/E27	15	220-240	E27	6000	2700	825	80	123	62	ID/MY/SG/PH	China
79971E	FLE15SOFT/T3/827/B22	15	220-240	B22	6000	2700	825	80	122	62	ID/MY/SG/PH	China

Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Life [h]	CCT [K]	Intensity [Cd]	Lumen [lm]	CRI [Ra]	Length [mm]	Diameter [mm]	Country	COO
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Decor - GU10													
79985E	FLE7GU10/T2/827	7	220-240	GU10	6000	2700	62	75	80	86.5	51	ID/MY/SG/PH	China
79986E	FLE7GU10/T2/840	7	220-240	GU10	6000	4000	62	75	80	86.5	51	ID/MY/SG/PH	China
79987E	FLE9GU10/T2/827	9	220-240	GU10	6000	2700	96	140	80	86.5	51	ID/MY/SG/PH	China
79988E	FLE9GU10/T2/840	9	220-240	GU10	6000	4000	96	140	80	86.5	51	ID/MY/SG/PH	China

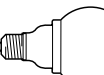


Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Life [h]	CCT [K]	Lumen [lm]	CRI [Ra]	Length [mm]	Diameter [mm]	Country	COO
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Decor - Buglite GLS												
74667	FLE11GLS/O/B22/BUG BX	11	220-240	E27	6000	Anti-Insect	380	80	132	62	Australia	China
74666	FLE11GLS/O/E27/BUG BX	11	220-240	B22	6000	Anti-Insect	380	80	132	62	Australia	China

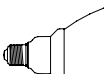


Decor - GG												
11368EN	FLE20HLX/GG/827/E27 Edison	20	220-240	E27	6000	2700	1100	82	147	91	SG/MY	China
11371EN	FLE20HLX/GG/865/E27 Edison	20	220-240	E27	6000	6500	1000	82	147	91	SG/MY	China

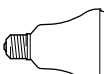


Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Life [h]	CCT [K]	Intensity [Cd]	Lumen [lm]	CRI [Ra]	Length [mm]	Diameter [mm]	Country	COO
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Decor - PAR38												
72480	FLE23PAR38/827/E27	23	220-240	E27	8000	2700	339	80	157	121	Australia	China
72481	FLE23PAR38/827/B22	23	220-240	B22	8000	2700	339	80	156	121	Australia	China
61742T	FLE23/827/E27/PAR38 220-240V	23	220-240	E27	8000	2700	339	80	157	121	Thailand	China
61744T	FLE23/865/E27/PAR38 220-240V	23	220-240	E27	8000	6500	288.15	80	157	121	Thailand	China



Decor - R80												
72478	FLE15R80/827/E27	15	220-240	E27	8000	2700	210	82	140	80	Australia	China
72479	FLE15R80/827/B22	15	220-240	B22	8000	2700	210	82	139	80	Australia	China



High Intensity Discharged Lamps



In 1931, GE invented the earliest HID lamp -- Mercury. Afterwards, GE invented High Pressure Sodium lamp in 1962 and Metal Halide lamp in 1964. GE took the lead in launching 20W SuperMini CMH and MR16 CMH for retail display in 2006 and 35W in 2008, which has provided more creative space for lighting designers.



Ultra-efficient light sources Outstanding light quality and exceptional reliability

When considering lamp life, light efficiency and excellent colour rendering, GE's Ceramic Metal Halide (CMH) range offers the perfect solution. From retail, decorative or industrial applications to outdoor applications the wide range of products represent the most advanced technology to deliver unbeatable reliability and performance. GE also provides a wide range of Lucalox High Pressure Sodium products for street lighting and industrial applications. GE's Lucalox range offers outstanding efficiency, extremely long life and reliability to meet increasing performance expectations and new regulations in these market segments.



Indoor Solutions



Retail



Industrial

When factors such as lamp life, light efficiency, cost and colour rendering matter, GE's Ceramic Metal Halide (CMH) range can provide the perfect solution. Combining high quality of light with excellent energy efficiency, GE CMH products offer the flexibility to meet challenging design requirements across environments and applications ranging from retail, industrial and decorative to outdoor use on floodlighting, street lighting or city beautification.

Quality of Light

Constant Color CMH range

ConstantColor Ceramic Metal Halide (CMH) lighting offers a high quality light source for a wide range of applications.

Available in Single Ended, Double Ended, Supermini, MR16 and reflector variations.



- Widest range from 20W to 400W
- Very efficient, up to 92LpW
- High CRI up to 90
- Outstanding long life up to 24,000hrs



ConstantColor CMH 3500K

Our new product family for unique color taste

Key features

- New-added 3500K CCT offer more option to lighting designers
- 10000 hours life, 12000 hours life for GU6.5
- High 80+ color rendering index, 90+ color rendering index for GU6.5
- Excellent color consistency
- Multiple angles



Benefits

- Create unique color to distinguish high end color temperature
- More vivid color especially for fashion stores



Applications

- Retail and accent lighting
- General retail display

Outdoor Solutions



Road and
tunnel



Street and
pedestrian



Commercial
areas

Quality of Light



CMH – street lighting – bright, safe white light

It is generally observed that white light makes it easier for drivers to recognize shapes and colour, particularly in the peripheral vision. For pedestrians white light promotes a feeling of security and confidence, much more than under yellow or orange street lighting.

- CRI up to 85
- Very efficient white light up to 110LpW
- Outstanding long life up to 24,000 hours

Solution for Reliability



Lucalox XO & XO Superlife – solution for reliability in street lighting

GE Lucalox XO High Pressure Sodium lamps offer outstanding luminous efficiency, lumen maintenance and long life, thus reducing energy and maintenance costs.

- luminous efficiency up to 146 LpW
- Long life up to 60,000 hours



GE ConstantColor CMH StreetWise

GE ConstantColor CMH StreetWise ceramic metal halide lamps have been designed as the easy-fit replacement for outdated technologies. They are also the logical first choice for new installations.

They are fitted with standard E27/E40 bases and can be dimmed, they outperform most standard HID systems and with high reliability and sustained lumen output across a longer working life of 24,000 hours, they are supremely cost effective.

They support electronic and electromagnetic ballasts and are compatible with the major street light ballasts, retrofitting the existing HPS systems. If you have any particular needs please contact your GE sales representative.

StreetWise ceramic metal halide lamps are an excellent white light energy efficient choice, offering:

- Lowest total cost of ownership
- Wide range: 50/70/100/150 Watts
- Dimmable for all wattages (except 50W EM version) for further energy saving
- System flexibility, operating on both electronic and electromagnetic ballasts
- Standard E27/E40 bases for simplicity
- Compatible with existing HPS fixtures and optics
- Same size and LCL as current HPS
- Horizontal burning position
- Very efficient up to 110LpW
- Outstanding long life of 24,000hrs

StreetWise



When to specify StreetWise

In applications where lighting class reduction using lamps above Ra8 60 can be considered, StreetWise is a clear leader. Its excellent Ra8 value of 70 provides improved colour rendering over similar systems of comparable life and efficiency.



High-Output High Pressure Sodium lamps

High cost performance product family

Key features

- Superb performance and long life
- Rated average life up to 28,000 hours
- Reliable starting technology, for higher reliability
- High luminous efficiency, up to 140 lm/W
- Extra light, up to 17% more lumens than Standard HPS Lamps — without increase in energy consumption.
- Full product family, from 70W to 600W
- Reduce re-lamping cycle



ConstantColor CMH (Ceramic Metal Halide) GU6.5, TC, T, TD



**Single Ended
Supermini Ultra
and Standard (GU6.5)**
Cap: GU6.5
Wattages: 20-35W
Colours: 830, 930, 935, 942
Rated life: 10,000-16,500Hrs
Page: 78



**Single Ended Mini
Ultra, Ultra White
and Standard (TC)**
Cap: G8.5
Wattages: 20-70W
Colours: 830, 835, 930, 942
Rated life: 12,000-18,000Hrs
Page: 78



**Single Ended
Ultra, Ultra White
and Standard (T)**
Cap: G12
Wattages: 20-150W
Colours: 830, 835, 930, 942
Rated life: 12,000-18,000Hrs
Page: 78



Double Ended (TD)
Cap: RX7s or RX7s-24
Wattages: 35-150W
Colours: 830
Rated life: 15,000Hrs
Page: 78

ConstantColor CMH (Ceramic Metal Halide) Reflectors



**MR16 Ultra and
Standard**
Cap: GX10
Wattages: 20-35W
Colours: 830, 930, 942
Rated life: 10,000-16,500Hrs
Page: 79



PAR20
Cap: E27
Wattages: 20-35W
Colours: 830, 942
Rated life: 10,000-12,000Hrs
Page: 79



PAR30
Cap: E27
Wattages: 20-70W
Colours: 830, 835, 942
Rated life: 10,000-13,000Hrs
Page: 79

ConstantColor CMH (Ceramic Metal Halide) Elliptical and Tubular



**Open Rated
Elliptical**
Cap: E27
Wattages: 70-150W
Colours: 942
Finish: Clear or Diffuse
Rated life: 10,000-15,000Hrs
Page: 79



Elliptical
Cap: E27, E40
Wattages: 70-400W
Colours: 830
Finish: Clear or Diffuse
Rated life: 10,000-24,000Hrs
Page: 80



StreetWise
Cap: E27, E40
Wattages: 50-150W
Colours: 730
Finish: Clear
Rated life: 24,000Hrs
Page: 80



Tubular
Cap: E27, E40
Wattages: 70-400W
Colours: 830, 842, 942
Finish: Clear
Rated life: 10,000-24,000Hrs
Page: 80



**Open Rated
Tubular**
Cap: E40
Wattages: 150W
Colours: 830, 942
Finish: Clear
Rated life: 12,000Hrs
Page: 80

CMH Ballasts



**CMH Standard
Ballasts**
A range of standard
ballasts
for 35-70W CMH lamps
Page: 80



**CMH Miniature
Ballasts**
A range of miniature
ballasts
for 20-35W
CMH lamps
Page: 80

Arcstream Metal Halide Operates on suitable metal halide/high pressure sodium ballast and metal halide ignitor



Single Ended
Cap: G12
Wattages: 70-150W
Colours: 3000-4200K
CRI: 70-80
Rated life: 6,000Hrs
Page: 81



Double Ended
Cap: Rx7s-Fc2
Wattages: 70-250W
Colours: 3000-6500K
CRI: 75-90
Rated life: 8,000-12,000Hrs
Page: 81



**Double Ended
Coloured**
Cap: RX7s-24
Wattages: 150W
Colours: Green, Blue,
Orange, Magenta
Rated life: 6,000Hrs
Page: 81



Tubular
Cap: E40
Wattages: 250-400W
Colours: 4200-6000K
CRI: 70-90+
Finish: Clear
Rated life: 12,000Hrs
Page: 81



Elliptical
Cap: E40
Wattages: 250W
Colours: 4000-6000K
CRI: 70-90
Finish: Clear or Diffuse
Rated life: 12,000-14,000Hrs
Page: 82

Multi-Vapour Metal Halide Operates from CWA Control Gear



Standard - Elliptical
Cap: E40
Wattages: 250-1000W
Colours: 3700-4200K
CRI: 65-70
Finish: Clear or Diffuse
Rated life: 10,000-20,000Hrs
Page: 82



**High Output -
Elliptical**
Cap: E40
Wattages: 250-400W
Colours: 3200-4200K
CRI: 65-70
Finish: Clear or Diffuse
Rated life: 20,000Hrs
Page: 82

Kolorarc Metal Halide Operates from suitable mercury or metal halide ballast rated 3.5A and metal halide ignitor



Tubular
Cap: E40
Wattages: 400W
Colours: 6000K
CRI: 90
Finish: Clear
Rated life: 14,000Hrs
Page: 82



Elliptical
Cap: E40
Wattages: 400W
Colours: 4000-6000K
CRI: 65-90
Finish: Clear or Diffuse
Rated life: 14,000Hrs
Page: 82

Sportlight Metal Halide For sports and floodlighting



Linear
Cap: RX7s - spec
Wattages: 1500-2000W
Colours: 5200K
CRI: 65
Rated life: 6,000Hrs
Page: 83



Tubular Clear
Cap: E40
Wattages: 1000-2000W
Colours: 4000-6000K
CRI: 65-93
Rated life: 2,000-8,000Hrs
Page: 83



Internal Ignitor
Cap: E40
Wattages: 2000W
Colours: 4000-6000K
CRI: 65-93
Rated life: 2,000-5,000Hrs
Page: 83

High Intensity Discharge Lamps

Lucalox High Pressure Sodium

Lucalox XO Superlife
Cap: E27, E40
Wattages: 50-400W
Feature: Extra high lumen output and Twin Arc tubes for extra life
Finish: Tubular Clear or Elliptical Diffuse
Rated life: 40,000 -60,000Hrs
Page: 83

Lucalox XO
Cap: E27, E40
Wattages: 50-600W
Feature: Extra high lumen output
Finish: Tubular Clear or Elliptical Diffuse
Rated life: 28,500 -35,000Hrs
Page: 83

Lucalox Superlife
Cap: E40
Wattages: 250-400W
Feature: Twin Arc tubes for extra life
Finish: Elliptical Diffuse
Rated life: 55,000Hrs
Page: 84

Lucalox Standard
Cap: E27, E40
Wattages: 70-1000W
Finish: Tubular Clear or Elliptical Diffuse
Rated life: 24,000 -28,500Hrs
Page: 84

Lucalox Start
Cap: E27, E40
Wattages: 70-400W
Finish: Tubular clear
Rated life: 12,000-24,000Hrs
Page: 84

Lucalox Internal Ignitor
Cap: E27
Wattages: 70W
Feature: Internal ignitor
Finish: Elliptical Clear or Diffuse
Rated life: 17,500Hrs
Page: 84

Kolorlux Mercury Standard
Cap: E27, E40
Wattages: 50-400W
Rated life: 16,000-20,000Hrs
Page: 85

Kolorlux Mercury Deluxe
Cap: E27, E40
Wattages: 50-400W
Rated life: 16,000-20,000Hrs
Page: 85

Mercury Lamps

Kolorlux Mercury Start
Cap: E27
Wattages: 125W
Rated life: 12,000 Hrs
Page: 85

Mixed Light
Cap: E27, E40
Wattages: 160-500W
Voltage: 230-240V or 240-250V
Rated life: 8,000Hrs
Page: 85

Product identification

The following glossary of terms will help you when selecting lamps in this section. Within each product line, lamps are divided into families – within these families, lamps are listed by wattage. The Product Description can be used as a quick reference to each product's attributes. Where Life or Average Life are stated we refer to the industry standard definition of how many hours of operation 50% of a given installation will exceed.

Additional parameters:

CCT [K]: Colour Temperature – Kelvins
A measure of the visual "warmth" or "coolness" of the light from the lamp. The higher the value the whiter or "cooler" the light appears.
CRI [Ra]: Colour Rendering Index
An indication of the ability of the lamp to render object colours in a normal, natural way. The higher the number (0-100), the better the colour appearance.

Watts:

Energy Used – Nominal Watts.

To estimate energy consumption (kWh), multiply watts x hours of use and divide by 1000

Cap:

The type of cap fitted. See page 148-149 for cap drawings

Lumens:

Initial Lumens - light output at 100 hours

Life (Horizontal):

Rated average life in horizontal burning position

Operating position:

U - Universal
HOR - Horizontal
BU - Base Up
VBU - Vertical Base Up

Diameter:

Bulb diameter in mm

Nominal Volts:
Lamp data is based on operation at rated voltage

Product description:
The lamp's identification code

Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Lumen [lm]	Colour	Operating position	Rated life (Vertical) [h]	Rated life (Horizontal) [h]	Length [mm]	Diameter [mm]	Pack Qty
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ConstantColor - CMH Supermini

40399	CMH20/T/UVC/830/GU6.5	20	95	GU6.5	1615	830	U	12,000	12,000	52	13	12
88656	CMH35/T/UVC/930/GU6.5	35	95	GU6.5	3400	930	U	10000*	10,000*	52	13	12

CMH 70 / T / UVC / U / 9 30 / G12 ULTRA

(70)
Identifies Lamp's wattage

(UVC) UV Control

(U) Operating Position

(G12):
Identifies the cap type

(CMH) Product Family

CMH - ConstantColor CMH
ARC - Arcstream
KRC - Kolorarc
MPR/MVR - Multi-Vapor
SPL - Sportlight
LU - Lucalox
H - Mercury
ML - Blended Light
BLS - Ballast

(T) Identifies the lamp format.

TD - Double Ended
E - Elliptical Clear
D - Elliptical Diffused
L - Linear
PARxx - PAR + size
T - Tubular Clear

(9) Colour rendering

6 - nom 60, min 57 (Group 2B)
7 - nom 70, min 67 (Group 2A)
8 - nom 80, min 77 (Group 1B)
9 - nom 90, min 87 (Group 1A)

(30) Colour temperature

XX = First 2 digits of temperature in Kelvin - XX00K
Example: 30 is 3000K

Colour:
Combination of colour rendering and colour temperature

Length:
Lamp length in mm

Product code:
It is important to use this code when ordering to ensure that you receive the exact product you require

Life (Vertical):
Rated average life in vertical burning position

Pack quantity:
Number of product units packed in a case

High Intensity Discharge Lamps

ConstantColor CMH Lamps



Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Lumen [lm]	Colour	Operating position	Rated life (Vertical) [h]	Rated life (Horizontal) [h]	Length [mm]	Diameter [mm]	Pack Qty
ConstantColor - CMH Supermini												
40399	CMH20/TC/UVC/830/GU6.5	20	95	GU6.5	1615	830	U	12,000	12,000	52	13	12
76122	CMH35/T/UVC/V60/930/GU6.5 ULTRA	35	93	GU6.5	3500	930	V+/-60	16,500	-	52	13	12
88656	CMH35/T/UVC/930/GU6.5	35	95	GU6.5	3400	930	U	10,000	10,000	52	13	12
88657	CMH35/T/UVC/942/GU6.5	35	95	GU6.5	3400	942	U	12,000	12,000	52	13	12



ConstantColor - CMH Single Ended Mini												
73685	CMH20/TC/UVC/U/830/G8.5 PLUS	20	90	G8.5	1650	830	U	12,000	12,000	85	14.5	12
63434	CMH35/TC/UVC/U942/G8.5	35	90	G8.5	3200	942	U	18,000	18,000	85	14.5	12
73686	CMH35/TC/UVC/U/830/G8.5 PLUS	35	90	G8.5	3400	830	U	16,500	16,500	85	14.5	12
76120	CMH35/TC/V60/UVC/930/G8.5 ULTRA	35	92	G8.5	3600	930	V+/-60	16,500	-	85	14.5	12
63433	CMH70/TC/UVC/U/942/G8.5	70	90	G8.5	6200	942	U	15,000	15,000	85	14.5	12
73687	CMH70/TC/UVC/U/830/G8.5 PLUS	70	90	G8.5	6200	830	U	15,000	15,000	85	14.5	12
63595	CMH70/TC/UVC/U/930/G8.5 ULTRA WHITE	70	90	G8.5	6700	930	U	18,000	18,000	85	14.5	12
96751	CMH70/TC/UVC/U/930/G8.5 ULTRA	70	90	G8.5	6200	930	U	18,000	18,000	85	14.5	12



ConstantColor - CMH Single Ended												
42708	CMH20/T/UVC/U/830/G12 PLUS	20	90	G12	1650	830	U	12,000	12,000	90	14.5	12
63437	CMH35/T/UVC/U/830/G12 PLUS	35	90	G12	3400	830	U	16,500	16,500	90	14.5	12
76121	CMH35/T/V60/UVC/930/G12 ULTRA	35	92	G12	3600	930	V+/-60	16,500	-	90	19	12
63438	CMH35/T/UVC/U/942/G12	35	90	G12	3200	942	U	18,000	18,000	90	14.5	12
63435	CMH70/T/UVC/U/830/G12	70	90	G12	6400	830	U	15,000	15,000	90	19	12
63436	CMH70/T/UVC/U/942/G12	70	90	G12	6000	942	U	15,000	15,000	90	19	12
63596	CMH70/T/UVC/U/930/G12 ULTRA WHITE	70	95	G12	6600	930	U	18,000	18,000	90	19	12
96752	CMH70/T/UVC/U/930/G12 ULTRA	70	95	G12	6400	930	U	18,000	18,000	90	19	12
20012	CMH150/T/UVC/U/830/G12	150	90	G12	14000	830	U	12,000	12,000	100	19	12
20014	CMH150/T/UVC/U/942/G12	150	90	G12	13000	942	U	12,000	12,000	100	19	12



ConstantColor - CMH Double Ended												
43278	CMH35/TD/UVC/830/RX7s	35	90	RX7s	3400	830	HOR±45°	-	15,000	118	21	12
36910	CMH70/TD/UVC/830/RX7s	70	90	RX7s	7000	N/A	HOR±45°	-	15,000	118	21	12
38698	CMH70/TD/UVC/942/RX7s	70	90	RX7s	6200	N/A	HOR±45°	-	15,000	118	21	12
36912	CMH150/TD/UVC/830/RX7s-24	150	96	RX7s-24	14500	N/A	HOR±45°	-	15,000	135	27	12
38692	CMH150/TD/UVC/942/RX7s-24	150	96	RX7s-24	12500	N/A	HOR±45°	-	15,000	135	27	12

ConstantColor - CMH 3500K												
99753	CMH35/T/UVC/935/GU6.5 BX1/12	35	95	GU6.5	3500	935	U	12000	12000	52	12	12
67493	CMH35/T/UVC/U/835/G8.5	35	90	G8.5	3400	835	U	10000	10000	85	14.5	12
67491	CMH35/T/UVC/U/835/G12	35	90	G12	3400	835	U	10000	10000	90	14.5	12
64950	CMH35/PAR30/UVC/835/E27/SP10	35	90	E27	2400	835	U	10000	10000	124	95.5	6
64951	CMH35/PAR30/UVC/835/E27/FL25	35	90	E27	2400	835	U	10000	10000	124	95.5	6
67494	CMH70/TC/UVC/U/835/G8.5	70	90	G8.5	6600	835	U	10000	10000	85	14.5	12
67492	CMH70/TC/UVC/U/835/G12	70	90	G12	6700	835	U	10000	10000	90	14.5	12
64952	CMH70/PAR30/UVC/835/E27/SP10	70	90	E27	4300	835	U	10000	10000	124	95.5	6
64953	CMH70/PAR30/UVC/835/E27/FL25	70	90	E27	4300	835	U	10000	10000	124	95.5	6

Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Candela [cd]	Beam Angle [°]	Colour	Operating position	Rated life (Vertical) [h]	Rated life (Horizontal) [h]	Length [mm]	Diameter [mm]	Pack Qty
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ConstantColor - CMH MR16 Precise													
40400	CMH20/MR16/UVC/830/GX10/SP	20	95	GX10	9000	12	830	U	12,000	12,000	54.5	51	12
40401	CMH20/MR16/UVC/830/GX10/FL GX10	20	95	GX10	2900	25	830	U	12,000	12,000	54.5	51	12
42691	CMH20/MR16/UVC/830/GX10/WFL GX10	20	95	GX10	1500	40	830	U	12,000	12,000	54.5	51	12
76123	CMH35/MR16/V60/UVC/930/GX10/SP Ultra	35	93	GX10	16000	12	930	V+/-60	16,500	-	54.5	51	12
76124	CMH35/MR16/V60/UVC/930/GX10/FL Ultra	35	93	GX10	5500	25	930	V+/-60	16,500	-	54.5	51	12
76125	CMH35/MR16/V60/UVC/930/GX10/WFL Ultra	35	93	GX10	3000	40	930	V+/-60	16,500	-	54.5	51	12
88658	CMH35/MR16/UVC/930/GX10/SP GX10	35	90	GX10	16000	12	930	U	10,000	10,000	54.5	51	12
88659	CMH35/MR16/UVC/930/GX10/FL GX10	35	90	GX10	5500	25	930	U	10,000	10,000	54.5	51	12
88660	CMH35/MR16/UVC/930/GX10/WFL GX10	35	90	GX10	3000	40	930	U	10,000	10,000	54.5	51	12
88661	CMH35/MR16/UVC/942/GX10/SP GX10	35	90	GX10	16000	12	942	U	12,000	12,000	54.5	51	12
88662	CMH35/MR16/UVC/942/GX10/FL GX10	35	90	GX10	5500	25	942	U	12,000	12,000	54.5	51	12
88663	CMH35/MR16/UVC/942/GX10/WFL GX10	35	90	GX10	3000	40	942	U	12,000	12,000	54.5	51	12

ConstantColor - CMH PAR 20													
26478	CMH20PAR20/UVC/830/E27/SP10	20	95	E27	13000	10	830	U	12,000	12,000	92	64	15
26481	CMH20/PAR20/UVC/830/E27/FL25	20	95	E27	3750	25	830	U	12,000	12,000	92	64	15
21684	CMH35/PAR20/UVC/830/E27/SP10	35	90	E27	22000	10	830	U	10,000	10,000	92	64	15
21685	CMH35/PAR20/UVC/830/E27/FL25	35	90	E27	7500	25	830	U	10,000	10,000	92	64	15
44890	CMH35/PAR20/UVC/942/E27/SP10	35	90	E27	19450	10	942	U	10,000	10,000	92	64	15
44919	CMH35/PAR20/UVC/942/E27/FL25	35	90	E27	6950	25	942	U	10,000	10,000	92	64	15

ConstantColor - CMH PAR 30													
26497	CMH20PAR30/UVC/830/E27/SP10	20	95	E27	19800	10	830	U	12,000	12,000	124	95.5	6
26518	CMH20PAR30/UVC/830/E27/FL25	20	95	E27	4900	25	830	U	12,000	12,000	124	95.5	6
63441	CMH35/PAR30/UVC/830/E27/SP10	35	90	E27	39600	10	N/A	U	10,000	10,000	124	95.5	6
63442	CMH35/PAR30/UVC/830/E27/FL 25	35	90	E27	11000	25	N/A	U	10,000	10,000	124	95.5	6
63443	CMH35/PAR30/UVC/942/E27/SP10	35	90	E27	36700	15	942	U	10,000	10,000	124	95.5	6
63444	CMH35/PAR30/UVC/942/E27/FL25	35	90	E27	10200	40	942	U	10,000	10,000	124	95.5	6
73683	CMH70/PAR30/UVC/830/E27/SP15	70	90	E27	42800	25	N/A	U	13,000	13,000	124	95.5	6
73684	CMH70/PAR30/UVC/830/E27/FL40	70	90	E27	10000	10	N/A	U	13,000	13,000	124	95.5	6
63437	CMH70/PAR30/UVC/942/E27/SP15	70	90	E27	33500	15	942	U	10,000	10,000	124	95.5	6
63440	CMH70/PAR30/UVC/942/E27/FL40	70	90	E27	9000	40	942	U	10,000	10,000	124	95.5	6

Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Lumen [lm]	Colour	Operating position	Rated life (Vertical) [h]	Rated life (Horizontal) [h]	Length [mm]	Diameter [mm]	Pack Qty
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ConstantColor - CMH Elliptical Clear												
97982	CMH70/E/UVC/U/830/E27/C	70	97	E27	6300	N/A	U	15,000	15,000	138	54	6
97984	CMH100/E/UVC/U/830/E27/C	100	102	E27	9200	N/A	U	15,000	15,000	138	54	6

ConstantColor - CMH Elliptical Clear, Open Rated												
43285	CMH150/UVC/O/U/942/E27/C	150	95	E27	13200	942	U	15,000	15,000	138	55	6

High Intensity Discharge Lamps



Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Lumen [lm]	Colour	Operating position	Rated life (Vertical) [h]	Rated life (Horizontal) [h]	Length [mm]	Diameter [mm]	Pack Qty
ConstantColor - CMH Elliptical Diffuse												
97979	CMH70/E/UVC/U/830/E27/D	70	97	E27	6000	830	U	15,000	15,000	138	54	6
97985	CMH100/E/UVC/U/830/E27/D	100	102	E27	8700	830	U	10,000	10,000	138	54	6
10591	CMH250/E/UVC/U/830/E40/D	250	117	E40	23500	830	U	24,000	24,000	227	90	12
13087	CMH400/E/UVC/U/830/E40/D	400	120	E40	39000	830/836	U	20,000	20,000	282	120	6

ConstantColor - CMH Elliptical Diffuse, Open Rated

43282	CMH70/UVC/O/U/940/E27/D	70	97	E27	5300	940	U	15,000	15,000	138	54	6
43286	CMH150/UVC/O/U/940/E27/D	150	95	E27	12300	940	U	15,000	15,000	138	55	6

ConstantColor - CMH Tubular Clear StreetWise



64982	CMH50/TT/UVC/730/E27 STREETWISE ECG	50	85	E27	5000	730	HOR±15°**	-	24,000*	156	39	12
77400	CMH50/TT/UVC/730/E27 STREETWISE EM	50	85	E27	4500	730	HOR±15°**	-	24,000*	156	39	12
77401	CMH70/TT/UVC/730/E27 STREETWISE	70	95	E27	7640	730	HOR±15°**	-	24,000*	156	39	12
77399	CMH100/TT/UVC/730/E40 STREETWISE	100	100	E40	10900	730	HOR±15°**	-	24,000*	211	48	12
77402	CMH150/TT/UVC/730/E40 STREETWISE	150	100	E40	16200	730	HOR±15°	-	24,000*	211	48	12

*Testing is still on-going to determine final design life
** Universal burning position to be available in Q4

ConstantColor - CMH Tubular Clear



38752	CMH70/TT/UVC/830/E27	70	95	E27	6400	830	U	15,000	20,000	156	37	12
92478	CMH100/TT/UVC/830/E40	100	109	E40	9200	830	U	10,000	15,000	209	48	12
21514	CMH150/UVC/T/U/842/E40	150	95	E40	14500	842	U	15,000	15,000	209	48	12
38749	CMH150/TT/UVC/830/E40	150	100	E40	14000	830	U	15,000	20,000	209	48	12
10589	CMH250/TT/UVC/U/830/E40	250	117	E40	25000	830	U	24,000	24,000	260	48	12
20302	KRC250/CMH/830/T/H/E40	250	110	E40	20000	830	HOR	-	24,000	260	48	12
62356	CMH250/T/U/942/E40	250	107	E40	25000	942	U	16,000*	16,000*	260	48	12
13067**	CMH400/TT/UVC/U/830/E40	400	120	E40	41000	830/836	U	20,000	20,000	278	60	12

*Testing is still on-going to determine final design life
** 830 in horizontal burning position, 836 in vertical burning position

ConstantColor - CMH Tubular Clear, Open Rated



21516	CMH150/UVC/O/T/U/830/E40	150	100	E40	14000	830	U	12,000	12,000	209	48	12
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Product Code	Product Description	Wattage [W]	Volts [V]	Category	Weight [g]	Pack Qty
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CMH Standard Ballast

61487	BLS/E/35W/CMH	35	220-240	integral	350	10
61488	BLS/E/35W/CMH /R CC	35	220-240	remote cable clamp	370	10
61376	BLS/E/70W/CMH	70	220-240	integral	350	10
61569	BLS/E/70W/CMH/R CC	70	220-240	remote cable clamp	370	10

CMH Miniature Ballast

78711	BLS/E/20W/CMH	20	220-240	integral	165	12
78712	BLS/E/20W/CMH/R/CC	20	220-240	remote cable clamp	180	12
78713	BLS/E/20W/CMH/R/LP	20	220-240	remote with lead	240	12
78714	BLS/E/35W/CMH	35	220-240	integral	165	12
78715	BLS/E/35W/CMH/R/CC	35	220-240	remote cable clamp	180	12
78716	BLS/E/35W/CMH/R/LP	35	220-240	remote with lead	240	12

Metal Halide Lamps

Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Lumen [lm]	CCT [K]	CRI [Ra]	Operating position	Rated life (Vertical) [h]	Rated life (Horizontal) [h]	Length [mm]	Diameter [mm]	Pack Qty
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Arcstream Single Ended RG-2

88654	ARC150/G12/830	150	95	G12	12000	3000	80	U	6,000	6,000	76	21.5	10
88655	ARC150/G12/842	150	95	G12	11500	4200	80	U	6,000	6,000	76	21.5	10

WARNING: UV emitted from lamps in Risk Group 2 and 3. Avoid eye and skin exposure to unshielded product.

Arcstream Single Ended UVC

97286	ARC70/T/U/730/G12	70	95	G12	5200	3000	70	U	6,000	6,000	87	23	10
97287	ARC70/T/U/742/G12	70	95	G12	5200	4200	75	U	6,000	6,000	87	23	10

Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Lumen [lm]	CCT [K]	CRI [Ra]	Operating position	Rated life (Horizontal) [h]	Length [mm]	Diameter [mm]	Pack Qty
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Arcstream Double Ended UVC

34530	ARC70/UVC/TD/730/Rx7s	70	95	RX7s	5500	3000	75	HOR±45°	12,000	114	19	12
34536	ARC70/UVC/TD/742/Rx7s	70	95	RX7s	5500	4200	75	HOR±45°	12,000	114	22	12
34527	ARC150/UVC/TD/732/Rx7s-24	150	95	RX7s-24	12000	3200	75	HOR±45°	8,000	132	22	12
34535	ARC150/UVC/TD/742/Rx7s-24	150	95	RX7s-24	12000	4200	75	HOR±45°	8,000	132	25	12

Arcstream Double Ended RG-3

35284	ARC150/AQUA/TD/865/Rx7s-24	150	95	RX7s-24	11000	6500	85	HOR±45°	8,000	132	25	12
93772	ARC150/TD/952/Rx7s-24	150	110	RX7s-24	11000	5200	90	HOR±45°	8,000	132	25	12
30099	ARC250/TD/832/Fc2	250	114	Fc2	20000	3200	75	HOR±45°	8,000	163	25	12
30101	ARC250/TD/842/Fc2	250	115	Fc2	20000	4200	75	HOR±45°	8,000	163	25	12

WARNING: UV emitted from lamps in Risk Group 2 and 3. Avoid eye and skin exposure to unshielded product.

Product Code	Product Description	Colour	Wattage [W]	Volts [V]	Cap	Operating position	Rated life (Horizontal) [h]	Length [mm]	Diameter [mm]	Pack Qty
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Arcstream Double Ended Coloured UVC

12181	ARC150/UVC/TD/GREEN/RX7S-24	green	150	95	RX7S-24	HOR±45°	6,000	132	25	12
12182	ARC150/UVC/TD/BLUE/RX7S-24	blue	150	95	RX7S-24	HOR±45°	6,000	132	25	12
12183	ARC150/UVC/TD/ORANGE/RX7S-24	orange	150	95	RX7S-24	HOR±45°	6,000	132	25	12
12184	ARC150/UVC/TD/MAGENTA/RX7S-24	magenta	150	95	RX7S-24	HOR±45°	6,000	132	25	12

Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Lumen [lm]	CCT [K]	CRI [Ra]	Operating position	Rated life (Vertical) [h]	Rated life (Horizontal) [h]	Length [mm]	Diameter [mm]	Pack Qty
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Arcstream Tubular Clear

32664	ARC250/T/H/960/E40	250	100	E40	19000	6000	90	HOR±45°	-	12,000	220	47	12
32665	ARC250/T/VBU/960/E40	250	100	E40	19000	6000	90	BU±45°	12,000	-	220	47	12
42357	ARC250/T/H/742/E40	250	112	E40	21000	4200	70	HOR±15°	-	12,000	220	48	12
42369	ARC400/T/H/742/E40	400	105	E40	35000	4200	70	HOR±15°	-	12,000	260	47	12

 The lamp shall be operated only in a luminaire provided with a protective shield.



High Intensity Discharge Lamps



Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Lumen [lm]	CCT [K]	CRI [Ra]	Operating position	Rated life (Vertical) [h]	Rated life (Horizontal) [h]	Length [mm]	Diameter [mm]	Pack Qty
16870	ARC250/D/H/740/E40	250	100	E40	19500	4000	70	HOR±15°	-	14,000	227	90	10
30047	ARC250/D/H/960/E40	250	100	E40	17000	6000	90	HOR±45°	-	12,000	227	91	12
32666	ARC250/D/VBU/960/E40	250	100	E40	17000	6000	90	VBU±45°	12,000	-	227	90	12

Operating from suitable metal halide / high pressure sodium (HPS) ballast and metal halide ignitor. Arcstream lamps are only suitable for operation in fully enclosed fixtures where lens/diffuser material must be able to contain fragments of hot quartz or glass (up to 1100°C)



44542	MVR250/U/40*	250**	133	E40	20800	4200	65	U	10,000	10,000	216	89	12
43907	MVR400/U/40*	400**	135	E40	40000	4000	65	U	20,000	20,000	295	118	6
41828	MVR1000/U/40	1000**	V250 H245	E40	108000	4000	65	U	15,000	15,000	385	178	6

*Non EU Product
**Performance data claimed for vertical position



44543	MVR250/C/U/40*	250**	133	E40	20000	3900	70	U	10,000	10,000	216	89	12
43908	MVR400/C/U/40	400**	135	E40	40000	3700	70	U	20,000	20,000	295	117	6

*Non EU Product
**Performance data claimed for vertical position



98777	MVR250/VBU/40	250	133	E40	22000	4200	65	VBU±15°	10,000	-	216	89	12
49860	MVR400/VBU/40	400	135	E40	41000	4000	65	VBU±15°	20,000	-	295	117	6



98778	MVR250/C/VBU/40	250	133	E40	20000	4000	65	VBU±15°	10,000	-	216	89	12
27738	MPR400/C/VBU/0/40	400*	135	E40	38000	3200	70	VBU±15°	20,000	-	295	117	6
49857	MVR400/C/VBU/40	400	135	E40	40000	3700	70	VBU±15°	20,000	-	295	117	6

Operating from CWA control gear. Initial lumen values and Rated Average Life based on vertical orientation for Universal types. Multi-Vapor lamps must operated in fully enclosed fixtures except those marked *when used VBU or VBD +/-15°. For lamps requiring enclosed fixtures, lens/diffuser material must be able to contain fragments of hot quartz or glass (up to 1100 °C). Lamps operated in the vertical position that are not designated "Enclosed Fixtures only" lamp may be used in an open or enclosed lighting fixture depending upon the application and operating environment. For example, if the lamp is located near combustible material or in an area which is unoccupied for extended periods, an enclosed fixture which can contain fragments of hot quartz or glass is recommended. For more information contact your fixture manufacturer.



30052	KRC400/T/H/960/E40	400	130	E40	28400	6000	90	HOR±45°	-	14,000	270	58	12
30704	KRC400/T/VBU/960/E40	400	130	E40	27000	6000	90	VBU±45°	14,000	-	270	58	12



16871	KRC400/E/VBU/645/E40	400	135	E40	33500	4500	65	VBU±30°	14,000	-	286	122	10
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10834	KRC400/D/H/960/E40	400	130	E40	26800	6000	90	HOR±45°	-	14,000	282	121	6
10837	KRC400/D/VBU/960/E40	400	130	E40	25400	6000	90	VBU±45°	14,000	-	282	121	6
16872	KRC400/D/VBU/740/E40	400	135	E40	33500	4000	70	VBU±30°	14,000	-	286	122	10
16875	KRC400/D/H/740/E40	400	135	E40	38000	4000	70	HOR±15°	-	14,000	286	120	10

Operating from suitable mercury or metal halide ballast rated 3 5A and metal halide ignitor. Low loss ballast recommended for 400W 6000K (960) products - see lamp data sheet for details. * Enhanced lumen performance operating from special "High Output" ballast rated 3.8A - see lamp data sheet for details. Kolorarc lamps are only suitable for operation in fully enclosed fixtures where lens/diffuser material must be able to contain fragments of hot quartz or glass (up to 1100 °C)

Metal Halide Lamps (continued)

Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Lumen [lm]	CCT [K]	CRI [Ra]	Operating position	Rated life (Vertical) [h]	Rated life (Horizontal) [h]	Length [mm]	Diameter [mm]	Pack Qty
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Sportlight Linear

16920	SPL1500/L/H/652/Rx7SM	1500	250	RX7SM	120000	5200	65	HOR±15°	-	6,000	256	24	1
16922	SPL2000/L/H/651/SPEC	2000	230	spec.	200000	5200	65	HOR±15°	-	6,000	311	26	1



Sportlight Tubular Clear

88882	SPL1000/T/H/960/E40	1000	120	E40	80000	6000	93	HOR±60°	-	8,000	334	65	4
36078	SPL2000/220V/T/H/640/E40	2000	125	E40	189000	4000	65	HOR±75°	-	2,000	430	102	4
30102	SPL2000/380V/T/H/960/E40	2000	225	E40	170000	6000	93	HOR±60°	-	5,000	430	102	4



Sportlight Internal Ignitor

30103	SPL2000/380V/I/T/H/960/E40	2000	225	E40	170000	6000	93	HOR±60°	-	5,000	430	101	4
33148	SPL2000/380V/I/T/H/640/E40	2000	235	E40	190000	4000	65	HOR±75°	-	2,000	430	101	4

Please refer to technical data sheet for appropriate ballast and ignitors. Sportlight lamps are only suitable in fully enclosed fixtures, where fixture lens/diffuser material must be able to contain fragments of hot quartz or glass (up to 1100° C)

△ Internal Ignitor



High Pressure Sodium Lamps

Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Lumen [lm]	CCT [K]	CRI [Ra]	Operating position	Rated Life [h]	Length [mm]	Diameter [mm]	Pack Qty
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HPS HO Tubular Clear

67489	LU70/90/HO/T/E27	70	90	E27	6500	2000	21	U	28000	156	39	20
67490	LU100/100/HO/T/E40	100	100	E40	10400	2000	21	U	28000	211	48	20
78659	LU150/100/HO/T/E40	150	100	E40	17400	2000	21	U	28000	211	48	12
78660	LU250/HO/T/E40	250	100	E40	32500	2000	21	U	28000	260	48	12
78661	LU400/HO/T/E40	400	100	E40	56200	2000	21	U	28000	283	48	12
78663	LU600/HO/T/E40	600	115	E40	83000	2000	21	U	24000	283	48	12



Lucalox XO Superlife Tubular Clear

88258	LU 70/XO/SBY/T/E27	70	90	E27	6600	2000	25	U	50,000	156	39	25
88256	LU 100/XO/SBY/T/E40	100	100	E40	10500	2000	25	U	60,000	211	48	12
78737	LU 150/XO/SBY/T/E40	150	100	E40	17500	2000	25	U	60,000	211	48	12
78738	LU 250/XO/SBY/T/E40	250	100	E40	33000	2000	25	U	55,000	260	48	12
78739	LU 400/XO/SBY/T/E40	400	100	E40	55800	2000	25	U	55,000	283	48	12



Lucalox XO Superlife Elliptical Diffuse

97238	LU50/85/XO/SBY/D/E27	50	85	E27	3500	2000	25	U	40,000	156	72	12
88257	LU70/XO/SBY/D/E27	70	90	E27	6000	2000	25	U	50,000	156	71	12
88255	LU100/XO/SBY/D/E40	100	100	E40	10000	2000	25	U	60,000	186	75	12



Lucalox XO Tubular Clear

93373	LU50/85/XO/T/27	50	85	E27	4400	2100	25	U	28,500	156	39	25
93375	LU70/90/XO/T/27	70	90	E27	6600	2100	25	U	28,500	156	39	25
93376	LU100/100/XO/T/40	100	100	E40	10700	2100	25	U	35,000	211	48	12
93377	LU150/150/XO/T/40	150	100	E40	17500	2100	25	U	35,000	211	48	12
93378	LU250/XO/T/40	250	100	E40	33200	2100	25	U	32,000	260	48	12
93269	LU400/XO/T/40	400	100	E40	56500	2100	25	U	32,000	292	48	12
93270	LU600/XO/T/40	600	115	E40	88500	2100	25	U	32,000	292	48	12



High Intensity Discharge Lamps



Lucalox XO Elliptical Diffuse

45696	LU50/85/XO/D/27	50	85	E27	3600	2100	25	U	28,500	156	72	12
45697	LU70/90/XO/D/27	70	90	E27	6000	2100	25	U	33,000	156	72	12
93296	LU400/XO/D/40	400	105	E40	54000	2100	25	U	32,000	292	122	6
93379	LU100/100/XO/D/40	100	100	E40	10200	2100	25	U	35,000	186	76	12
93380	LU150/100/XO/D/40	150	100	E40	16900	2100	25	U	35,000	227	91	12
93381	LU250/XO/D/40	250	100	E40	31200	2100	25	U	32,000	227	91	12

 External Ignitor,  Internal Ignitor



Lucalox Superlife Elliptical Diffuse

35590	LU250/SBY/D/E40*	250	100	E40	26000	2000	25	U	55,000	227	91	12
35591	LU400/SBY/D/E40 *	400	105	E40	48000	2000	25	U	55,000	282	122	6

* Non EU product



Lucalox Standard Tubular Clear

46221	LU 70/90/MO/T/E27	70	90	E27	6100	2000	25	U	28,500	156	39	25
93767	LU100/100/MO/T/40	100	100	E40	9600	2000	25	U	28,500	211	48	12
97241	LU150/100/HO/T/E40	150	100	E40	17500	2000	25	U	24,000	283	48	12
44244	LU150/100/40*	150	100	E40	15000	2000	25	U	28,500	211	48	12
22453	LU250/T/40*	250	100	E40	28500	2000	25	U	28,500	260	48	12
97240	LU400/HO/T/E40	400	100	E40	56500	2000	25	U	24,000	260	48	12
11678	LU400/T/40*	400	100	E40	48000	2000	25	U	28,500	278	48	12
44059	LU1000/40	1000	250	E40	130000	2100	22	U	24,000	383	79	6
45751	LU1000/110/T/40	1000	110	E40	130000	2000	25	U	24,000	374	68	4

* Non EU product



Lucalox Standard Elliptical Diffuse

46217	LU70/90/MO/D/E27	70	90	E27	5750	2000	25	U	28,500	156	72	12
93766	LU100/100/MO/D/40*	100	100	E40	9200	2000	25	U	28,500	186	76	12
44245	LU150/100/D/40*	150	100	E40	14500	2000	25	U	28,500	227	91	12
44052	LU250/D/40*	250	100	E40	26000	2000	25	U	28,500	227	91	12
44057	LU400/D/40*	400	105	E40	48000	2000	25	U	28,500	282	122	6

* Non EU product



Lucalox Start Tubular Clear

96815	LU70/90/T12/27 START*	70	90	E27	5100	2000	21	U	12,000	156	39	25
96808	LU150/100/T/40 START*	150	100	E40	15000	2000	21	U	24,000	211	48	12
96810	LU250/T/40 START*	250	100	E40	28000	2000	21	U	24,000	260	48	12
96813	LU400/T/40 START*	400	105	E40	48000	2000	21	U	24,000	292	48	12

* Non EU product



Lucalox Internal Ignitor Elliptical Clear

46209	LU 70/90/MO/I/E27	70	90	E27	6100	2000	25	U	17,500	156	72	12
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Lucalox Internal Ignitor Elliptical Diffuse

46186	LU70/90/MO/D/I/E27	70	90	E27	5750	2000	25	U	17,500	156	72	12
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 External Ignitor,  Internal Ignitor

High Pressure Mercury Lamps

Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Lumen [lm]	CCT [K]	CRI [Ra]	Operating position	Rated Life [h]	Length [mm]	Diameter [mm]	Pack Qty
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Kolorlux Mercury Standard

74171	H50/27	50	95	E27	1800	4000	40	U	16,000	130	55	24
74172	H80/27	80	115	E27	3800	4000	45	U	20,000	156	70	24
73736	H125/27	125	125	E27	6300	4000	45	U	20,000	170	75	24
73737	H250/40	250	130	E40	13000	4000	40	U	20,000	227	90	12
74174	H400/40	400	135	E40	22500	4000	40	U	20,000	292	120	12

Kolorlux Mercury Deluxe

77055	H50 DX E27	50	95	E27	1800	3700	52	U	16,000	130	55	24
77056	H80 DX E27	80	115	E27	3800	3600	53	U	20,000	156	70	24
77057	H125 NDX E27	125	125	E27	6500	3500	53	U	20,000	170	75	24
77058	H250 NDX E40	250	130	E40	13800	3400	45	U	20,000	227	90	12
77061	H400 DX E40	400	135	E40	24400	3400	47	U	20,000	292	120	12

Kolorlux Mercury Start

44180	H125/E27/GE/START	125	125	E27	5800	4000	40	U	12,000	178	76	24
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Mixed Light

96724	ML160/230-240V E27	160	230-240	E27	3100	4200	52	VBU±30	8,000	170	76	24
96728	ML160/240-250V E27	160	240-250	E27	3100	4200	52	VBU±30	8,000	170	76	24
96723	ML250/230-240V E40	250	230-240	E40	5500	3800	52	U	8,000	227	91	12
96725	ML250/230-240V E27	250	230-240	E27	5500	3800	52	U	8,000	227	91	12
96726	ML250/240-250V E40	250	240-250	E40	5500	3800	52	U	8,000	227	91	12
96713	ML500/230-240V E40	500	230-240	E40	14000	3800	45	U	8,000	292	121	10



High Intensity Discharge Lamps

The following pages show GE and alternative brand Order Codes. These cross references are provided as a quick guide and may only represent a near equivalent to other brands. The table contains data from alternative brands' catalogues and website.

GE	OSRAM	PHILIPS	Havells Sylvania	Venture
ConstantColor CMH				
CMH20/TC/UVC/U/830/GU6.5	HCI-TF 20W/830 WDL PB GU6.5	CDM-Tm Mini GU6.5 20W/830	CMi-Tmini 20W/WDL UVS	-
CMH35/T/UVC/930/GU6.5	HCI-TF 35/930 WDL PB GU6.5	-	-	-
CMH35/T/UVC/930/GU6.5 Ultra	-	CDM-Tm Elite Mini GU6.5 35W/930	-	-
CMH35/T/UVC/942/GU6.5	-	-	-	-
CMH20/TC/UVC/U/830/G8.5 Plus	HCI-TC 20W/830 WDL PB G8.5	CDM-TC 20W/830 G8.5	-	-
CMH35/TC/UVC/U/830/G8.5 Plus	HCI-TC 35W/830 WDL PB G8.5	CDM-TC 35W/830 G8.5	CMi-TC 35W/WDL UVS	-
CMH35/TC/UVC/U/930/G8.5 Ultra	HCI-TC 35/930 WDL PB Shop G8.5	CDM-TC Elite 35W/930 G8.5	-	-
CMH35/TC/UVC/U/942/G8.5	HCI-TC 35W/942 ND L PB UVS G8.5	CDM-TC 35W/942 G8.5	-	-
CMH70/TC/UVC/U/830/G8.5 Plus	HCI-TC 70W/830 WDL PB G8.5	CDM-TC 70W/830 G8.5	-	-
CMH70/TC/UVC/U/942/G8.5	HCI-TC 70W/942 ND L PB G8.5	CDM-TC 70W/942 G8.5	CMi-TC 70W/WDL UVS	-
CMH70/TC/UVC/U/930/G8.5 Ultra / Ultra White	HCI-TC 70/930 WDL PB Shop G8.5*	CDM-TC Elite 70W/930 G8.5	-	-
CMH20/T/UVC/U/830/G12 Plus	-	CDM-T 20W/830 G12	-	-
CMH35/T/UVC/U/830/G12 Plus	HCI-T 35W/830 WDL PB G12	CDM-T 35W/830 G12	CMi-T 35W/WDL UVS	CM-PLUS T 35W/U/UVS/G12/830
CMH35/T/UVC/U/930/G12 Ultra	HCI-T 35/930 WDL PB Shop G12	CDM-T Elite 35W/930 G12	-	-
CMH35/T/UVC/U/942/G12	HCI-T 35W/942 ND L PB UVS G12	CDM-T 35W/942 G12	CMi-T 70W/WDL UVS	CM-PLUS T 35W/U/UVS/G12/942
CMH70/T/UVC/U/830/G12	HCI-T 70W/830 WDL PB G12	CDM-T 70W/830 G12	CMi-T 70W/ND L UVS	CM-PLUS T 70W/U/UVS/G12/830
CMH70/T/UVC/U/942/G12	HCI-T 70W/942 ND L PB UVS G12	CDM-T 70W/942 G12	-	CM-PLUS T 70W/U/UVS/G12/942
CMH70/T/UVC/U/930/G12 Ultra / Ultra White	HCI-TC 70/930 WDL PB Shop G12	CDM-T Elite 70W/930 G12	-	-
CMH150/T/UVC/U/830/G12	HCI-T 150W/830 WDL PB G12	CDM-T 150W/830 G12	CMi-T 150W/WDL UVS	CM-PLUS T 150W/U/UVS/G12/830
CMH150/T/UVC/U/942/G12	HCI-T 150/ND L PB UVS G12	CDM-T 150W/942 G12	CMi-T 150W/ND L UVS	CM-PLUS T 150W/U/UVS/G12/942
CMH35/TD/UVC/830/Rx7s	-	-	CMi-T 35W/WDL UVS	-
CMH70/TD/UVC/830/Rx7s	HCI-TS 70W/830 WDL PB UVS Rx7S	CDM-TD 70W/830 Rx7s	CMi-T 70W/WDL UVS	CM-PLUS TD 70W/U/UVS/Rx7s/830
CMH70/TD/UVC/942/Rx7s	HCI-TS 70W/942 ND L PB UVS Rx7S	CDM-TD 70W/942 Rx7s	CMi-T 70W/ND L UVS	CM-PLUS TD 70W/U/UVS/Rx7s/942
CMH150/TD/UVC/830/Rx7s-24	HCI-TS 150W/830 WDL PB Rx7S-24	CDM-TD 150W/830 Rx7s-24	CMi-T 150W/WDL UVS	CM-PLUS TD 150W/U/UVS/Rx7s/830
CMH150/TD/UVC/942/Rx7s-24	HCI-TS 150W/942 ND L PB Rx7S-24	CDM-TD 150W/942 Rx7s-24	CMi-T 150W/ND L UVS	CM-PLUS TD 150W/U/UVS/Rx7s/942
CMH20/MR16/UVC/830/GX10/SP12	-	CDM-Rm Mini 20W/830 GX10 MR16 10D	-	-
CMH20/MR16/UVC/830/GX10/FL25	-	CDM-Rm Mini 20W/830 GX10 MR16 25D	-	-
CMH20/MR16/UVC/830/GX10/WFL40	-	CDM-Rm Mini 20W/830 GX10 MR16 40D	-	-
CMH35/MR16/UVC/930/GX10/SP 12	-	-	-	-
CMH35/MR16/UVC/930/GX10/FL 25	-	-	-	-
CMH35/MR16/UVC/930/GX10/WFL40	-	-	-	-
CMH35/MR16/UVC/930/GX10/SP12 Ultra	-	CDM-Rm Elite Mini 35W/930 GX10 MR16 10D	-	-
CMH35/MR16/UVC/930/GX10/FL25 Ultra	-	CDM-Rm Elite Mini 35W/930 GX10 MR16 25D	-	-
CMH35/MR16/UVC/930/GX10/WFL40 Ultra	-	CDM-Rm Elite Mini 35W/930 GX10 MR16 40D	-	-
CMH35/MR16/UVC/942/GX10/SP12	-	-	-	-
CMH35/MR16/UVC/942/GX10/FL25	-	-	-	-
CMH35/MR16/UVC/942/GX10/WFL40	-	-	-	-
CMH20/PAR20/UVC/830/E27/SP10	-	-	-	-
CMH20/PAR20/UVC/830/E27/FL25	-	-	-	-
CMH35/PAR20/830/E27/SP	HCI-PAR20 35W/830 WDL SP E27	CDM-R 35W/830 E27 PAR20L10D	-	-
CMH35/PAR20/830/E27/FL	HCI-PAR20 35W/830 WDL FL E27	CDM-R 35W/830 E27 PAR20L30D	-	-
CMH35/PAR20/UVC/942/E27/SP10	-	CDM-R 35W/942 E27 PAR20L10D	-	-
CMH35/PAR20/UVC/942/E27/FL25	-	CDM-R 35W/942 E27 PAR20L30D	-	-
CMH20/PAR30/UVC/830/E27/SP10	HCI-PAR30 20W/830 WDL SP E27	-	-	-
CMH20/PAR30/UVC/830/E27/FL25	HCI-PAR30 20W/830 WDL FL E27	-	-	-
CMH35/PAR30/UVC/830/E27/SP10	HCI-PAR30 35W/830 WDL SP E27	CDM-R 35W/830 E27 PAR20L10D	-	-
CMH35/PAR30/UVC/830/E27/FL25	HCI-PAR30 35W/830 WDL FL E27	CDM-R 35W/830 E27 PAR20L30D	-	-
CMH35/PAR30/UVC/942/E27/SP10	-	-	-	-
CMH35/PAR30/UVC/942/E27/FL25	-	-	-	-
CMH70/PAR30/UVC/830/E27/SP	HCI-PAR30 70W/830 WDL SP E27	CDM-R 70W/830 E27 PAR30L10D	-	-
CMH70/PAR30/UVC/830/E27/FL	HCI-PAR30 70W/830 WDL FL E27	CDM-R 70W/830 E27 PAR30L40D	-	-
CMH70/E/UVC/U/830/E27/C	HCI-E/P 70/830 WDL PB E27 clear	CDM-ET 70W /830 E27	-	CM-PLUS ED 70W/U/UVS/830
CMH100/E/UVC/U/830/E27/C	HCI-E/P 100/830 WDL PB clear	CDM-ET 100W /830 E40	-	CM-PLUS ED 100W/U/UVS/830
CMH150/UVC/O/U/942/E27/C	HCI-E/P 150W/942 ND L PBMO CL E27	-	-	-
CMH70/E/UVC/U/830/E27/D	HCI-E/P 70W/830 ND L PB COE27	CDO-ET Coated 70W/828 E27	-	-
CMH70/UVC/O/U/940/E27/D	HCI-E/P 70W/942 ND L Coated E27	-	-	-
CMH100/E/UVC/U/830/E27/D	HCI-E/P 100W/830 WDL PB Coated E27	CDO-ET Coated 100W/828 E40	-	-
CMH150/UVC/O/U/940/E27/D	HCI-E/P 150W/942 ND L PB MO E27	CDO-ET Coated 150W/828 E40	-	-
CMH250/E/UVC/U/830/E40/D	HCI-E 250W/830 WDL PB E40	-	-	-
CMH400/E/UVC/U/830/E40/D	-	-	-	-

Brand cross reference

GE	OSRAM	PHILIPS	Havells Sylvania	Venture
ConstantColor CMH				
CMH50/TT/UVC/730/E27 STREETWISE	-	CDO-TT 50W/828 E27	-	-
CMH70/TT/UVC/830/E27	HCI-T/P 70W/830 WDL PB E27	-	-	CM-PLUS TT 70W/U/UVS/830
CMH70/TT/UVC/730/E27 STREETWISE	-	CDO-TT 70W /828 E27	-	-
CMH100/TT/UVC/830/E40	HCI-TT 100/830 WDL PB E40	-	-	CM-PLUS TT 100W/U/UVS/830
CMH100/TT/UVC/730/E40 STREETWISE	-	CDO-TT 100W /828 E27	-	-
CMH150/TT/UVC/830/E40	HCI-T/P 150W/830 WDL PB E40	-	-	CM-PLUS TT 150W/U/UVS/830
CMH150/TT/UVC/730/E40 STREETWISE	-	CDO-TT 150W/828 E40	-	-
CMH150/UVC/T/U/842/E40	HCI-TT 150/830 WDL PB E40	-	-	CM-PLUS TT 150W/U/UVS/942
CMH150/UVC/O/T/U/830/E40	HCI-T/P 150W/830 ND L PB E40	-	-	-
CMH150/T/UVC/O/U/942/E40	HCI-T/P 150W/942 ND L PB E40	-	-	-
CMH250/TT/UVC/U/830/E40	HCI-T 250W/830 WDL PB E40	CDO-TT 250W /828 E27	-	-
KRC250/CMH/830/T/H/E40	-	-	-	-
CMH400/TT/UVC/U/830/E40	-	-	-	-
Arcstream				
ARC70/T/U/730/G12	HQI T 70/WDL	-	HSI-T 70W/WDL	-
ARC70/T/U/742/G12	HQI T 70/ND L	-	HSI-T 70W/ND L	-
ARC150/G12/830	HQI T 150/WDL	-	HSI-T 150W/WDL	HIT 150W/G12/UVS/3K
ARC150/G12/842	HQI T 150/ND L	-	HSI-T 150W/ND L	HIT 150W/G12/UVS/4K
ARC70/UVC/TD/730/Rx7s	HQI TS 70/WDL UVS	-	HSI-TD 75W/WDL 3K UVS	MH-DE 70W/UVS/3K
ARC70/UVC/TD/742/Rx7s	HQI TS 70/ND L UVS	-	HSI-TD 75W/ND L 4K UVS	MH-DE 70W/UVS/4K
ARC150/UVC/TD/732/Rx7s-24	HQI TS 150/WDL UVS	-	HSI-TD 150W/WDL 3K UVS	MH-DE 150W/UVS/3K
ARC150/UVC/TD/742/Rx7s-24	HQI TS 150/ND L UVS	-	HSI-TD 150W/ND L 4K UVS	MH-DE 150W/UVS/4K
ARC150/TD/952/Rx7s-24	HQI TS 150/D UVS	-	HSI-TD 150W/D 5K UVS	-
ARC150/UVC/AQUA/TD/865/Rx7s-24	-	-	-	MH-DE 150W/UVS/FS/6K
ARC250/TD/832/Fc2	HQI TS 250/WDL UVS	-	HSI-TD 250W/ND L 3K UVS	MH-DE 250W/UVS/3K/Fc2
ARC250/TD/842/Fc2	HQI TS 250/ND L UVS	-	HSI-TD 250W/ND L 4K UVS	MH-DE 250W/UVS/4K/Fc2
ARC150/UVC/TD/GREEN/RX7S-24	-	-	-	MH-DE 150W/UVS/GDX
ARC150/UVC/TD/BLUE/RX7S-24	-	-	-	MH-DE 150W/UVS/BDX
ARC150/UVC/TD/ORANGE/RX7S-24	-	-	-	-
ARC150/UVC/TD/MAGENTA/RX7S-24	-	-	-	MH-DE 150W/UVS/MDX
ARC250/T/VBU/960/E40	HQI-T 250/D*	-	HSI-T 250W / 6K*	-
ARC250/T/H/960/E40	-	-	HSI-T 250W / 6K*	-
ARC400/T/H/742/E40	HQI-T 400/N*	MASTER HPI Plus 400W/645 E40 1SL*	HSI-TSX 400W*	HIT 400W/U/EURO/4K*
ARC250/D/H/740/E40	-	MASTER HPI Plus 250W/745 BU E40 1SL*	HSI-SX 250W/CO*	-
ARC250/D/H/960/E40	HQI-E 250/D*	-	-	-
ARC250/D/VBU/960/E40	HQI-E 250/D*	MASTER HPI Plus 250W/767 BU E40 1SL*	-	-
Kolorarc				
KRC400/T/H/960/E40	HQI-BT 400/D*	-	HSI-T 400W / 6K*	HIT 400W/U/LU/6.5K*
KRC400/T/VBU/960/E40	HQI-BT 400/D*	-	HSI-T 400W / 6K*	HIT 400W/U/LU/6.5K*
KRC400/E/VBU/645/E40	HQI-E 400/N CLEAR*	-	HSI-HX 400W CL*	HIE 400W/BU/EURO/4K*
KRC400/D/VBU/740/E40	HQI-E 400/N*	MASTER HPI Plus 400W/745 BU E40 1SL*	HSI-HX 400W CO*	HIE 400W/CV/DU/4.5K*
KRC400/D/H/740/E40	HQI-E 400/N*	-	HSI-HX 400W CO*	HIE 400W/C/U/EURO/4K*
KRC400/D/VBU/960/E40	-	MASTER HPI Plus 250W/767 BU E40 1SL*	-	-
KRC400/D/H/960/E40	-	-	-	-
Multi-vapor				
MVR250/U/40	-	-	-	-
MVR400/U/40	-	-	-	-
MVR1000/U/40	-	-	-	HIE 1000W/U/4K*
MVR250/C/U/40	-	-	-	-
MVR400/C/U/40	-	-	-	-
MVR400/VBU/40	-	-	-	-
MVR400/C/VBU/40	-	-	-	-
MPR400/C/VBU/0/40	-	-	-	-
Spotlight				
SPL1500/L/H/652/Rx7SM	-	-	-	-
SPL2000/L/H/654	-	-	-	-
SPL2000/T/H/960/E40	HQI-T 2000/D*	-	-	-
SPL2000/I/T/H/640/E40	HQI-T 2000 /N*	HPI-T 2000W/642 E40 380V CRP*	HSI-T 2000W-S4K 380V/I*	-
SPL2000/I/T/H/960/E40	HQI-T 2000 /D/I*	-	-	-
SPL1000/T/H/960/E40 1/4	HQI-T 1000/D*	-	-	-

High Intensity Discharge Lamps

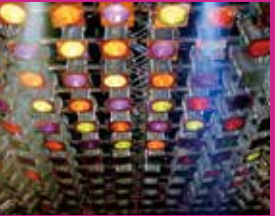
GE	OSRAM	PHILIPS	Havells Sylvania	Venture
Mixed Light				
ML 160/230-240V E27	HWL 160 235V	ML 160W E27 235-245	HSB-BW 160W 230V E27	-
ML 160/240-250V	HWL 160 240V	ML 160W E27 235-245	HSB-BW 160W 240	-
ML 250/230-240V E40	HWL 250 235V	ML 250W E27 225-235	HSB-BW 250W 240V E40	-
ML 250/230-240V E27	-	ML 250W E40 225-235	HSB-BW 250W 240V E27	-
ML 250/ 240-250V E40	HWL 250 240V	ML 250W E40 235-245	HSB-BW 250W 240	-
ML 500/230-240V E40	HWL 500 235V	ML 500W E40 225-235	HSB-BW 500W 240V E40	-
Lucalox Standard				
LU70/90/D/27	NAV-E 70/E	SON E 70W	SHP 70W/CO-E	-
LU100/100/MO/D/40	NAV-E 100	SON E 100W	SHP 100W	-
LU150/100/D/40	NAV-E 150	SON E 150W	SHP 150W	-
LU250/D/40	NAV-E 250	SON E 250W	SHP 250W	-
LU400/D/40	NAV-E 400	SON E 400W	SHP 400W	-
LU70/90/T12/27	NAV-T 70	SON- T 70W	SHP-T 70W	-
LU100/100/MO/T/40	NAV-T 1000	SON- T 100W	-	-
LU150/100/T /40	NAV-T 150	SON-T 150W	SHP-T 150W	-
LU250/T/40	NAV-T 250	SON-T 250W	SHP-T 150W	-
LU400/T/40	NAV-T 400	SON-T 400W	SHP-T 400W	-
LU1000/110/T/40	NAV-T 1000	SON-T 1000W	SHP-T 1000W	-
Lucalox XO				
LU50/85/XO/D/27	NAV-T 50 SUPER 4Y	-	SHP S 50W	-
LU70/90/XO/D/27	NAV-T 70 SUPER 4Y	MASTER SON PIA PLUS 70W	SHP S 70W	-
LU100/100/XO/D/40	NAV-E 100 SUPER 4Y	MASTER SON PIA PLUS 100W	SHP S 100W	-
LU250/XO/D/40	NAV-E 250 SUPER 4Y	MASTER SON PIA PLUS 250W	SHP S 250W	-
LU400/XO/D/40	NAV-E 400 SUPER 4Y	MASTER SON PIA PLUS 400W	SHP S 400W	-
LU50/85/XO/T/27	NAV-T 50 SUPER 4Y	MASTER SON-T PIA PLUS 50W	SHP TS 50W	-
LU70/90/XO/T/27	NAV-T 70 SUPER 4Y	MASTER SON-T PIA PLUS 70W	SHP TS 70W	-
LU100/100/XO/T/40	NAV-T 100 SUPER 4Y	MASTER SON-T PIA PLUS 100W	SHP TS 100W	-
LU150/150/XO/T/40	NAV-T 150 SUPER 4Y	MASTER SON-T PIA PLUS 150W	SHP TS 150W	-
LU250/XO/T/40	NAV-T 250 SUPER 4Y	MASTER SON-T PIA PLUS 250W	SHP TS 250W	-
LU400/XO/T/40	NAV-T 400 SUPER 4Y	MASTER SON-T PIA PLUS 400W	SHP TS 400W	-
LU600/XO/T/40	NAV-T 600 SUPER 4Y	MASTER SON-T PIA PLUS 600W	SHP TS 600W	-
Lucalox I				
LU50/85/D/I/27	NAV-E 50/I	SON 50W I	SHP 50W/CO-I	-
LU70/90/D/I/27	NAV-E 70/I	SON 70W I	SHP 70W/CO-I	-
LU70/90/I/27	-	-	SHP 70W/CL-I	-
Lucalox E-Z lux				
LUH110/D/27 - SHx	NAV-E 110	SON-H Pro 110W	SHx 110W E27	-
Lucalox SUPERLIFE				
LU70/90/XO/SBY/T12/E27	-	-	SHP-TS 70W TWinarc	-
LU100/100/XO/SBY/T/E40	-	-	SHP-TS 100W TWinarc	-
LU150/XO/SBY/T/E41	-	-	SHP-TS 150W TWinarc	-
LU250/XO/SBY/T/E42	-	-	SHP-TS 250W TWinarc	-
LU400/XO/SBY/T/E43	-	-	SHP-TS 400W TWinarc	-
LU50/85/XO/SBY/D/27	-	-	-	-
LU70/90/XO/SBY/D/E27	-	-	SHP-S 70W TWinarc	-
LU100/100/XO/SBY/D/E40	-	-	SHP-S 100W TWinarc	-
LU250/SBY/D/40	-	-	SHP-S 250W TWinarc	-
LU400/SBY/D/40	-	-	SHP-S 400W TWinarc	-
Kolorlux Standard				
H50/27	HQL 50	HPL-N 50W	HSL-BW 50W E27	-
H80/27	HQL 80	HPL-N 80W	HSL-BW 80W E27	-
H125/27	HQL 125	HPL-N 125W	HSL-BW 125W E27	-
H250/40	HQL 250	HPL-N 250W	HSL-BW 250W E40	-
H400/40	HQL 400	HPL-N 400W	HSL-BW 400W E40	-

*Similar product, please contact your local sales representative for more details

SHOWBIZ Lamps



GE is the leading supplier of showbiz in the world.



GE SHOWBIZ lamps – performance tested, performance proven.

GE is a full line supplier to the entertainment industry offering a range of lamp technologies for use in applications including stage, studio, film and event lighting.

This section details the current range available, however as GE continues its pioneering work in the development of new and innovative light sources some new lamps may not appear.

Discharge Lamps

- Full range of single and double ended lamps
- Wattages from 125 to 24,000 Watts
- UV control lamps with easy identifiable blue base
- Reliable compact double ended range for both film and event lighting
- Cold start lamps for event lighting
- Cinema fluorescent for studio and film

PAR Lamps

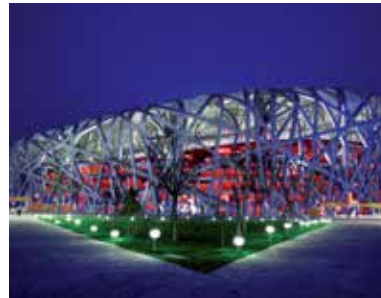
- GE PAR lamps for all events
- Robust, flexible lighting solution
- Extensive range from PAR36 to PAR64
- European made 1000W PAR64 (CP60, CP61 & CP62)

Single Ended Studio Halogen Lamps

- Extensive range of Quartzline lamps
- Full range up to 24,000 Watts
- Range of bases to meet the needs of OEM's
- Chromised seal protection to 500° C

Linear Halogen Lamps

- A range from 650 to 2,000W



CSR TAL Lamps

New 'Turn And Lock' Technology for Easier Lamp Installation

These single-ended metal halide lamps are especially useful for moving-light applications that call for high colour temperatures and brighter light sources.

The 'Turn And Lock' technology provides easy installation.

These products offer a very short arc gap which allow for higher beam intensity. This enables good system performance, colour stability and superior lumen maintenance over life. A range of power options are available to meet the needs of fixture designers.



Key benefits

- Easy release base (Turn And Lock) enabling quick lamp change at events
- High lumen output
- Range
 - CSR 1500/TAL PGJX50
 - CSR 700/TAL PGJX50
 - CSR700/TAL PGJX28
 - CSR 300/TAL PGJX28
- Outstanding beam performance



SHOWBIZ
for stage, studio, film and event lighting

Product identification

The following glossary of terms will help you when selecting lamps in this section. Within each product line, lamps are divided into families – within these families, lamps are listed by wattage.

Additional parameters:

LIF Code: common lamp ID within Europe

ANSI Code: common lamp ID within North America

Discharge - Single Ended Hot Restrike										
Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Lumen [lm]	CCT [K]	Operating position	Life [h]	Length [mm]	Pack Qty
48461	CSR125/SE/HR	125	80	GZX9.5	9,400	5600	U	200	75	10
48462	CSR200/SE/HR	200	80	GZY9.5	15,000	5600	U	200	80	10
21853	CSR400/SE/HR	400	70	GZZ9.5	32,000	5900	U	750	110	10

Product code:
It is important to use this code when ordering to ensure that you receive the exact product you require

CSR125 / SE / HR

(CSR) High
Intensity
Discharge
lamp brand
name code

Identifies
the lamp
as single
ended

(125) Identifies the lamp's wattage

Hot
Restrike

Volts:
Lamp data
is based on
operating
voltage

CCT [K]:
Colour Temperature - Kelvins
A measure of the visual "warmth" or "coolness" of the light from the lamp. The higher the value the whiter or "cooler" the light appears

Life:
Rated average life

Pack quantity:
Number of product
units packed in a case

CSR & CSD	94
Cinema Fluorescent	95
Blacklight Blue	96
PAR Halogen	96
Single Ended Halogen	98
Double Ended Halogen	101
Projection	101



SHOWBIZ Lamps

CSR & CSD

	Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Lumen [lm]	CCT [K]	Operating position	Life [h]	Length [mm]	Pack Qty
Discharge - Single Ended Hot Restrike											
	48461	CSR125/SE/HR	125	80	GZX9.5	9,800	5400	U	200	75	10
	48462	CSR200/SE/HR/UV-C	200	70	GZY9.5	17,500	5600	U	200	80	10
	21853	CSR400/SE/HR/UV-C	400	70	GZZ9.5	32,000	6000	U	750	110	10
	45238	CSR400/SE/HR/75	400	70	GZZ9.5	28,000	7500	U	750	110	10
	48463	CSR575/SE/HR	575	95	G22	50,000	5600	U	750	145	10
	40460	CSR575/SE/HR/UV-C	575	95	G22	48,000	5600	U	750	145	10
	22495	CSR800/SE/HR/UV-C	800	95	G22	64,000	5600	U	750	145	6
	48464	CSR1200/SE/HR	1200	100	G38	105,000	5600	U	750	200	6
	27764	CSR1200/SE/HR/UV-C	1200	100	G38	110,000	5600	U	750	200	6
	77390	CSR1800/SE/HR/UV-C	1800	140	G38	165,000	6000	U	750	200	4
	48465	CSR2500/SE/HR	2500	115	G38	220,000	6000	U	500	240	6
	40482	CSR2500/SE/HR/UV-C	2500	115	G38	220,000	5600	U	500	240	6
	48466	CSR4000/SE/HR	4000	200	G38	370,000	6000	U	500	260	6
	27765	CSR4000/SE/HR/UV-C	4000	200	G38	380,000	5600	U	500	260	6
	48467	CSR6000/SE/HR	6000	130	G38	540,000	5900	U	300	360	6
	40492	CSR6000/SE/HR/UV-C	6000	130	G38	540,000	5600	U	300	360	6
	48468	CSR12000/SE/HR	12000	160	G38	1,100,000	6000	U	250	450	4
	22496	CSR18000/SE/HR	18000	225	G51	1,650,000	6000	U	250	470	1
Discharge - Single Ended Cold Start											
	27817	CSD250/2/SE	250	94	GY9.5	17,700	9000	U	3,000	108	10
	21328	CSD250/2/SE BULK	250	94	GY9.5	17,700	9000	U	3,000	108	100
	49492	CSR575/2/T/SE	575	97	GX9.5	42,000	7500	U	1,000	125	10
	15378	CSR575/2/SE	575	97	GX9.5	46,000	7200	U	1,000	125	10
	49491	CSR700/2/SE	700	70	G22	55,000	6500	U	1,000	155	10
	49490	CSR1200/2/SE	1200	100	G22	110,000	7000	U	800	175	6
Discharge - CSR Turn and Lock (TAL)											
	76160	CSR300/2/TAL	300	95	PGJX28	23,000	7800	U	750	126	4
	76161	CSR700/TAL/60/PGJX50	700	70	PGJX50	59,000	6000	U	750	130	4
	78718	CSR700/TAL/60/PGJX28	700	70	PGJX28	59,000	6000	U	750	130	4
	74873	CSR1500/TAL/60/S	1500	100	PGJX50	TBA	6000	U	750	130	4
Discharge - Double Ended Hot Restrike											
	48450	CSR200/DE	200	80	X515	15,000	5600	HOR±15°	300	75	10
	45232	CSR400/S/DE/90	400	49	SFc 10-4 SI/M4	24,000	9000	U	750	138	10
	22478	CSR400/S/DE/70	400	49	SFc 10-4 SI/M4	26,000	7000	U	1000	138	10
	70979	CSR575/DE	575	95	SFc 10-4 SI/M4	40,000	7000	U	750	138	10
	70978	CSR575/DE/70 BULK	575	95	SFc 10-4 SI/M4	40,000	7000	U	750	138	100
	45231	CSR575/SS/DE/75	575	100	SFc 10-4 SI/M4	44,000	7500	HOR±15°	500	92	10
	22493	CSR700/S/DE/60	700	70	SFc 10-4 SI/M4	59,000	6000	U	750	138	10
	41357	CSR700/S/DE/72	700	70	SFc 10-4 SI/M4	51,000	7200	U	750	138	10
	22494	CSR1200S/DE/60	1200	100	SFc 10-4 SI/M4	110,000	6000	U	750	138	10
	96802	CSR1200/S/DE/60/STB	1200	100	SFc 10-4 SI/M4	105,000	6000	U	750	135	10
	96800	CSR1500/S/DE/STB	1500	115	SFc 10-4 SI/M4	132,000	6000	HOR±15°	500	138	10
	48453	CSR1200/DE	1200	100	SFc 10-5-6 SI/M6	110,000	6000	HOR±15°	750	220	10
	48454	CSR2500/DE	2500	115	SFa21-12	240,000	6000	HOR±15°	500	355	6
	48455	CSR4000/DE	4000	200	SFa21-12	400,000	6000	HOR±15°	500	405	6
	48456	CSR6000/DE	6000	125	25X51 Cyl 165mm	570,000	6000	HOR±15°	300	450	10
	48457	CSR12000/DE	12000	160	30x70 Cyl 165mm	1,100,000	6000	HOR±15°	300	470	10
	48459	CSR18000/DE	18000	225	30x70 Cyl 165mm	1,650,000	5600	HOR±15°	500	500	4
	78710	CSR24000/DE	24000	270	30x70 Cyl 165mm	2,300,000	6000	HOR±15°	500	500	1

Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Lumen [lm]	CCT [K]	Operating position	Life [h]	Length [mm]	Pack Qty
15380	CSR700SA	700	70	GY9.5	58,000	6200	U	500	85	10
45234	CSR700SA/72	700	70	GY9.5	58,000	7200	U	500	85	10
21849	CSR1200SA	1200	100	GY22	100,000	5800	U	750	135	6
21801	CSR2000SA	1800	100	GY22	155,000	6000	U	750	135	6

ConstantColor - CMH Single Ended GX9.5										
73579	CMH400/932/GX9.5	400	135	GX9.5	40,000	3200	U	5,000	135	4
73580	CMH400/941/GX9.5	400	135	GX9.5	40,000	4100	U	5,000	135	4

Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Candela [cd]	Beam Type	Beam 10%	Beam 50%	CCT [K]	Operating position	Life [h]	Length [mm]	Pack Qty
ConstantColor CMH - PAR64													
88545	CMH150/PAR64/830/GX16d/SP	150	95	GX16d	154,000	Narrow	9x9	4x4	3000	U	8,000	152	6
88537	CMH150/PAR64/830/GX16d/MFL	150	95	GX16d	47,000	Medium	18x15	13x11	3000	U	8,000	152	6
16960	CMH150/PAR64/830/GX16d/WFL	150	95	GX16d	16,000	WFL	62x36	46x23	3000	U	3,000	152	6
88543	CMH150/PAR64/942/GX16d/SP	150	100	GX16d	154,000	Narrow	9x9	4x4	4200	U	8,000	152	6
88542	CMH150/PAR64/942/GX16d/MFL	150	100	GX16d	47,000	Medium	18x15	13x11	4200	U	8,000	152	6
88541	CMH150/PAR64/942/GX16d/WFL	150	100	GX16d	16,000	Wide	25x20	18x15	4200	U	8,000	152	6

Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Lumen [lm]	CCT [K]	Operating position	Life [h]	Length [mm]	Pack Qty
CSS										
88485	CSS150/850/GY9.5	140	85	GY9.5	10,000	5000	VBD±90	1,000	48	10

Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Lumen [lm]	Beam 10%	Beam 50%	CCT [K]	Operating position	Life [h]	Length [mm]	Pack Qty
CSI/CID												
88495	99-0201 CSI	400	100	Special	32,000	-	-	4000±400	VBD±90	500	55	1
88494	99-0221 CSI	1000	77	G22	90,000	-	-	4000±400	VBD±90	500	115	1
88514	99-1222 CSI CS	1000	77	G38	1,350,000	18	6	3800±500	U	3,500	80	1
88513	99-1422 CSI HR	1000	77	G38	1,350,000	18	6	3800±500	U	3,500	80	1
88493	99-0222 CID	1000	77	G22	70,000	-	-	5500±400	BDTH	500	115	1

Product Code	Product Description	Wattage [W]	Cap	Lumen [lm]	CCT [K]	Operating position	Life [h]	Length [mm]	Pack Qty
Cinema Studio Biax									
41869	F55BX/StudioBiax32	55	2G11-4 Pin	4,100	3200	U	8,000	55	10
41873	F55BX/StudioBiax56	55	2G11-4 Pin	4,100	5600	U	8,000	55	10

Cinema Plus Biax									
41903	F55BX/CINPLUS/32	55	2G11-4 Pin	2,400	3200	U	2,000	55	10
41911	F55BX/CINPLUS/55	55	2G11-4 Pin	2,400	5600	U	2,000	55	10

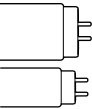
SHOWBIZ Lamps



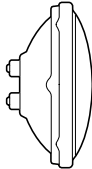
Product Code	Product Description	Wattage [W]	Cap	Lumen [lm]	CCT [K]	Operating position	Life [h]	Length [mm]	Diameter [mm]	Pack Qty
Cinema T8										
72658	F24T8CINEMA32/CVG	28	G-13 Med BiPin	1,250	3200	U	2,000	600	26	24
72659	F24T8CINEMA55/CVG	28	G-13 Med BiPin	1,200	5500	U	2,000	600	26	24
81207	F48T8/Cinema32/CVG	55	G-13 Med BiPin	2,750	3200	U	2,000	1200	26	24
81208	F48T8/Cinema55/CVG	55	G-13 Med BiPin	2,750	5500	U	2,000	1200	26	24



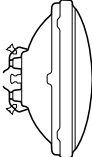
Cinema T12										
15775	F20T12/CINEMA32/HO/CVG	35	G-13 Med BiPin	1,130	3200	U	2,000	600	38	24
15776	F20T12/CINEMA55/HO/CVG	35	G-13 Med BiPin	1,100	5500	U	2,000	600	38	24
15782	F40T12/CINEMA32/HO/CVG	75	G-13 Med BiPin	2,900	3200	U	2,000	1200	38	30
15783	F40T12/CINEMA55/HO/CVG	75	G-13 Med BiPin	2,820	5500	U	2,000	1200	38	30



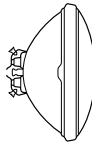
Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Operating position	Life [h]	Length [mm]	Diameter [mm]	Pack Qty
Blacklight Blue									
34747	F20T12/BLB	20	57	G-13 Med BiPin	U	9000	600	38	6
25618	F40T12/BLB	40	101	G-13 Med BiPin	U	20000	1,200	38	6
88832	F18T8/BLB	18	57	G-13 Med BiPin	U	12,000	600	26	25
88833	F36T8/BLB	36	103	G-13 Med BiPin	U	12,000	1200	26	25



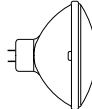
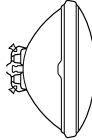
Product Code	Product Description	Wattage [W]	Volts [V]	Cap	ANSI Code	Candela [cd]	Beam Type	Beam 10%	Beam 50%	CCT [K]	Operating position	Life [h]	Length [mm]	Diameter [mm]	Pack Qty
PAR 36															
41673	FCX	650	120	Ferrule	FCX	24,000	MFL	-	40 X 30	3200	HOR±15°	100	69.8	114.3	12
14553	25PAR36	25	5.5	Scr. Term.	-	30,000	VNSP	-	5 x 5	3000	U	1,000	69.8	114.3	12
14555	25PAR36/WFL	25	12	Scr. Term.	-	500	WFL	49 x 41	37 x 26	-	U	2,000	69.8	114.3	12
24425	4405	30	12.8	Scr. Term.	-	50,000	VNSP	6 x 5	-	-	U	100	69.8	114.3	12
24663	4511	30	6.2	Scr. Term.	-	2,300	-	-	-	-	U	300	69.8	114.3	12
15133	H4515	30	6.4	Scr. Term.	-	67,000	VNSP	5.5 x 4	-	-	U	100	69.8	114.3	12
24673	4515	30	6.4	Scr. Term.	-	55,000	VNSP	5 x 5	-	-	U	100	69.8	114.3	12
43576	H7604	50	12.8	Scr. Term.	-	100,000	NSP	7 x 5	-	-	U	100	69.8	114.3	12
12892	50PAR36/VNSP	50	12	Scr. Term.	-	25,000	VNSP	-	6 x 6	-	U	2,000	69.8	114.3	12
16540	50PAR36/NSP	50	12	Scr. Term.	-	9,200	NSP	-	10 x 10	-	U	2,000	69.8	114.3	12
16541	50PAR36/WFL	50	12	Scr. Term.	-	1,300	WFL	48 x 41	36 x 28	-	U	2,000	69.8	114.3	12
19880	50PAR36/WFL/H	50	12	Scr. Term.	-	1,300	WFL	-	30 x 30	3050	U	4,000	69.8	114.3	12
16542	50PAR36/VWFL	50	12	Scr. Term.	-	600	VWFL	-	55 x 55	-	U	2,000	69.8	114.3	12
24627	4502	50	28	Scr. Term.	-	10,000	WFL	40 x 7	-	-	U	400	69.8	114.3	12
24640	4505	50	28	Scr. Term.	-	45,000	NSP	11 x 5	-	-	U	400	69.8	114.3	12
24650	4509	100	13	Scr. Term.	-	110,000	NSP	12 x 6	-	-	U	25	69.8	114.3	12
41503	4509X	100	13	Scr. Term.	-	110,000	NSP	12 x 6	-	-	U	25	69.8	114.3	12
24887	4593	50	28	Scr. Term.	-	1,500	VWFL	80 x 30	-	-	U	400	69.8	114.3	12
24891	4594	100	28	Scr. Term.	-	70,000	NSP	13 x 7	-	-	U	300	69.8	114.3	12
24964	4626	150	28	Scr. Term.	-	25,000	WFL	40 x 9	-	-	U	300	69.8	114.3	12
24966	4627	100	28	Scr. Term.	-	3,000	VWFL	80 x 30	-	-	U	300	69.8	114.3	12
24867	4587	250	28	Scr. Term.	-	4,000	WFL	40 x 13	-	-	U	25	69.8	114.3	12
24898	4596	250	28	Scr. Term.	-	150,000	NSP	11 x 12	-	3000	U	25	69.8	114.3	12
41667	DWE	650	120	Scr. Term.	DWE	24,000	MFL	-	40 X 30	3200	HOR±15°	100	69.8	114.3	12
41671	FBO	650	120	Scr. Term.	FBO	75,000	SP	-	25 X 15	3400	HOR±15°	30	69.8	114.3	12



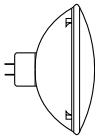
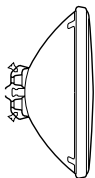
Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Candela [cd]	Beam Type	Beam 50%	Operating position	Life [h]	Length [mm]	Diameter [mm]	Pack Qty
PAR 46												
43591	H7635	50	12.8	Scr. Term	160,000	VNSP	6.5 x 4	U	100	95.2	146	12
40822	4537-2	100	13	Scr. Term	200,000	SP	11 x 6	U	25	95.2	146	12
24799	4553	250	28	Scr. Term	300,000	SP	11 x 12	U	25	95.2	146	12
24859	4580	450	28	Scr. Term	400,000	SP	13 x 14	U	10	95.2	146	12
24862	4581	450	28	Scr. Term	400,000	SP	13 x 14	U	10	95.2	146	12
37706	Q4554	450	28	Scr. Term	65,000	WFL	50 x 11	U	100	95.2	146	12
36271	Q4681	450	28	Scr. Term	310,000	SP	15 x 9	U	50	95.2	146	12



Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Candela [cd]	Beam Type	Beam 10%	Beam 50%	CCT [K]	Operating position	Life [h]	Length [mm]	Diameter [mm]	Pack Qty
PAR 56														
24768	4545	100	12	Scr. Term	225,000	NSP	-	9 x 5	-	U	100	127	177.8	12
19024	120PAR56/MFL	120	12	Scr. Term	19,000	MFL	18 x 9	29 x 15	-	U	2,000	127	177.8	12
19025	120PAR56/WFL	120	12	Scr. Term	5,625	WFL	35 x 18	50 x 25	-	U	2,000	127	177.8	12
20122	200PAR	200	30	Scr. Term	270,000	SP	-	9 x 9	-	U	350	127	177.8	12
20575	240PAR56/VNSP	240	12	Scr. Term	140,000	VNSP	9 x 6	7 x 10	-	U	2,000	127	177.8	12
20577	240PAR56/WFL	240	12	Scr. Term	13,000	WFL	35 x 18	50 x 27	-	U	2,000	127	177.8	12
23427	300PAR56/WFL	300	12	Scr. Term	NA	WFL	-	-	-	U	1,000	127	177.8	12
20803	300PAR56/NSP	300	120	Mog End Pr GX16d	68,000	NSP	10 x 8	20 x 14	2750	U	2,000	127	177.8	12
20836	300PAR56/MFL	300	120	Mog End Pr GX16d	24,000	MFL	23 x 11	34 x 19	2750	U	2,000	127	177.8	12
20849	300PAR56/WFL	300	120	Mog End Pr GX16d	11,000	WFL	37 x 18	57 x 27	2750	U	2,000	127	177.8	12
20853	300PAR56/NSP	300	230	ExMogEndPr GX16d	40,000	NSP	-	-	-	U	2,000	127	177.8	12
20852	300PAR56/MFL	300	230	ExMogEndPr GX16d	30,000	MFL	-	-	-	U	2,000	127	177.8	12
20854	300PAR56/WFL	300	230	ExMogEndPr GX16d	10,000	WFL	-	-	-	U	2,000	127	177.8	12
18676	300PAR56/NSP	300	240	ExMogEndPr GX16d	40,000	NSP	-	-	-	U	2,000	127	177.8	12
18677	300PAR56/MFL	300	240	ExMogEndPr GX16d	30,000	MFL	-	-	-	U	2,000	127	177.8	12
18678	300PAR56/WFL	300	240	ExMogEndPr GX16d	10,000	WFL	-	-	-	U	2,000	127	177.8	12
43494	Q500PAR56/NSP	500	120	Mog End Pr GX16d	96,000	NSP	13 x 8	32 x 15	2950	U	4,000	127	177.8	6
43495	Q500PAR56/MFL	500	120	Mog End Pr GX16d	43,000	MFL	26 x 10	42 x 20	2950	U	4,000	127	177.8	6
43496	Q500PAR56/WFL	500	120	Mog End Pr GX16d	19,000	WFL	44 x 20	66 x 34	2950	U	4,000	127	177.8	6



SHOWBIZ Lamps



Product Code	Product Description	Wattage [W]	Volts [V]	Cap	LIF Code	ANSI Code	Candela [cd]	Beam Type	Beam 10%	Beam 50%	CCT [K]	Operating position	Life [h]	Length [mm]	Diameter [mm]	Pack Qty
PAR 64																
40576	4552	250	28	Scr. Term	-	-	500,000	SP	-	7 X 8	-	U	25	152.4	203.2	12
40578	4559	600	28	Scr. Term	-	-	600,000	SP	-	11 X 12	-	U	25	152.4	203.2	12
40579	Q4559	600	28	Scr. Term	-	-	600,000	SP	-	12 X 8	-	U	100	152.4	203.2	12
42552	Q4559X	600	28	Scr. Term	-	-	765,000	SP	11x7.5	-	-	U	100	152.4	203.2	12
73581	CP86 PAR64/VNSP	500	230	GX16d	CP86	-	240,000	VNSP	16x13	10x7	3200	U	300	152.4	203.2	6
99944	CP86 PAR64/VNSP	500	240	GX16d	CP86	-	240,000	VNSP	16x13	10x7	3200	U	300	152.4	203.2	6
25504/99945	CP87 PAR64/NSP	500	230	GX16d	CP87	-	140,000	NSP	19x16	11x9	3200	U	300	152.4	203.2	6
99946	CP87 PAR64/NSP	500	240	GX16d	CP87	-	140,000	NSP	19x16	11x9	3200	U	300	152.4	203.2	6
99947	CP88 PAR64/MFL	500	230	GX16d	CP88	-	65,000	MFL	32x19	21x10	3200	U	300	152.4	203.2	6
99948	CP88 PAR64/MFL	500	240	GX16d	CP88	-	65,000	MFL	32x19	21x10	3200	U	300	152.4	203.2	6
39411	500/PAR64/MFL	500	230	ExMogEndPr GX16d	-	-	-	MFL	21 X 10	32 x 19	2700	U	2,000	152.4	203.2	12
39414	500/PAR64/W FL	500	230	ExMogEndPr GX16d	-	-	-	WFL	42 X 20	55 x 32	2700	U	2,000	152.4	203.2	12
88425	CP60 EXC SUPER	1000	230	GX16d	CP60	-	352,000	VNSP	12x9	20x17	3200	U	300	152.4	203.2	6
88551	CP60 EXC SUPER	1000	240	GX16d	CP60	-	352,000	VNSP	12x9	20x17	3200	U	300	152.4	203.2	6
88535	CP61 EXD SUPER	1000	230	GX16d	CP61	-	297,000	NSP	14x10	22x20	3200	U	300	152.4	203.2	6
88550	CP61 EXD SUPER	1000	240	GX16d	CP61	-	297,000	NSP	14x10	22x20	3200	U	300	152.4	203.2	6
88549	CP62 EXE SUPER	1000	230	GX16d	CP62	-	138,000	MFL	24x11	38x20	3200	U	300	152.4	203.2	6
88536	CP62 EXE SUPER	1000	240	GX16d	CP62	-	138,000	MFL	24x11	38x20	3200	U	300	152.4	203.2	6
88511	CP95	1000	230	ExMogEndPr GX16d	CP95	-	15,000	VWFL	70 X 70	125 x 95	3200	U	300	152.4	203.2	6
88510	CP95	1000	240	ExMogEndPr GX16d	CP95	-	15,000	VWFL	70 X 70	125 x 95	3200	U	300	152.4	203.2	6
88480	EXG/PAR64/WFL	1000	230	ExMogEndPr GX16d	-	EXG	38,000	WFL	57 X 21	73 x 36	3200	U	300	152.4	203.2	6
88479	EXG/PAR64/WFL	1000	240	ExMogEndPr GX16d	-	EXG	38,000	WFL	57 X 21	73 x 36	3200	U	300	152.4	203.2	6
39409	500PAR64/MFL	500	120	ExMogEndPr GX16d	-	-	37,000	MFL	23 X 11	35 x 19	2800	U	2,000	152.4	203.2	12
13233	FFN	1000	120	ExMogEndPr GX16d	-	FFN	400,000	VNSP	12 X 6	24 x 10	3200	U	800	152.4	203.2	6
13229	FFP	1000	120	ExMogEndPr GX16d	-	FFP	330,000	NSP	14 X 7	26 x 14	3200	U	800	152.4	203.2	6
13228	FFR	1000	120	ExMogEndPr GX16d	-	FFR	125,000	MFL	28 X 12	44 x 21	3200	U	800	152.4	203.2	6
13227	FFS	1000	120	ExMogEndPr GX16d	-	FFS	40,000	WFL	48 X 24	71 x 45	3200	U	800	152.4	203.2	6
43497	Q1000PAR64/NSP	1000	120	ExMogEndPr GX16d	NA	NA	200,000	NSP	15 X 8	31 X 14	3000	U	4,000	152.4	203.2	6
43498	Q1000PAR64/MFL	1000	120	ExMogEndPr GX16d	-	-	80,000	MFL	28 X 12	45 x 22	3000	U	4,000	152.4	203.2	6
43499	Q1000PAR64/WFL	1000	120	ExMogEndPr GX16d	-	-	33,000	WFL	48 X 24	72 x 45	3000	U	4,000	152.4	203.2	6

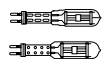
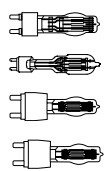
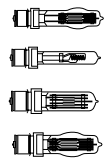
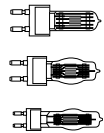
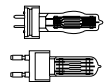
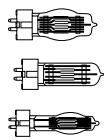


Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Lumen [lm]	CCT [K]	Operating position	Life [h]	Length [mm]	Diameter [mm]	Pack Qty
Single Ended Halogen - HPL											
88478	HPL 575	575	230	G9.5/Heat Sink	14,900	3200	U	300	106	19	12
88477	HPL 575	575	240	G9.5/Heat Sink	14,900	3200	U	300	106	19	12
88436	HPL 575-C	575	120	G9.5/Heat Sink	16,520	3250	U	300	106	19	12
88438	HPL 575-C	575	115	G9.5/Heat Sink	16,520	3250	U	300	106	19	12
88476	HPL 575-X LL	575	230	G9.5/Heat Sink	11,780	3050	U	1,500	106	19	12
88475	HPL 575-X LL	575	240	G9.5/Heat Sink	11,780	3050	U	1,500	106	19	12
88434	HPL 575-C LL-X	575	120	G9.5/Heat Sink	12,360	3050	U	2,000	106	19	12
88435	HPL 575-C LL-X	575	115	G9.5/Heat Sink	12,360	3050	U	2,000	106	19	12
88474	HPL 750	750	230	G9.5/Heat Sink	19,750	3200	U	300	106	19	12
88473	HPL 750	750	240	G9.5/Heat Sink	19,750	3200	U	300	106	19	12
88437	HPL 750-C	750	115	G9.5/Heat Sink	22,000	3250	U	300	106	19	12
88428	HPL 750-C-XLL	750	115	G9.5/Heat Sink	16,400	3050	U	2,000	106	19	12
88430	HPL 750-X-LL	750	230	G9.5/Heat Sink	15,600	3050	U	1,500	106	19	12
88429	HPL 750-X-LL	750	240	G9.5/Heat Sink	15,600	3050	U	1,500	106	19	12

Product Code	Product Description	Wattage [W]	Volts [V]	Cap	LIF Code	ANSI Code	Lumen [lm]	CCT [K]	Operating position	Life [h]	Length [mm]	Pack Qty
Single Ended Halogen												
88624	EHD	500	120	G9.5	-	EHD	10,000	2900	U	2,000	105	24
88548	FLK	575	115	G9.5	-	FLK	16,500	3200	U	300	105	24
88452	FLK-LL	575	115	G9.5	-	EHD	10,000	3100	U	2000	105	50
88448	GKV	600	230	G9.5	-	GKV	14,000	3200	U	250	105	24
88447	GKV	600	240	G9.5	-	GKV	14,000	3200	U	250	105	24
88446	GKV/LL	600	230	G9.5	-	GKV	11,000	3000	U	1,500	105	24
88445	GKV/LL	600	240	G9.5	-	GKV	11,000	3000	U	1,500	105	24
88450	FKR	650	230-240	G9.5	-	FKR	15,000	3100	U	300	105	24
88627	EHF	750	120	G9.5	-	EHF	20,000	3200	U	300	105	24
88626	EHG	750	120	G9.5	-	FLK	16,500	3000	U	300	105	24
88432	HX800	800	230-240	G9.5	HX800	-	20,000	3200	U	250	105	24
88625	FEL	1000	120	G9.5	CP77	FEL	27,500	3200	U	300	105	24
88449	CP77 FEP	1000	230-240	G9.5	CP77	FEP	25,000	3200	U	300	105	24
88443	CP81 FKW	300	120	GY9.5	CP81	FKW	6,900	3200	BDTH	50	90	24
88433	CP81 FSL	300	230	GY9.5	CP81	FSL	6,900	3200	BDTH	150	90	24
88444	CP81 FSK	300	240	GY9.5	CP81	FSK	6,900	3200	BDTH	150	90	24
88467	CP82 FRG	500	120	GY9.5	CP82	FRG	13,000	3200	BDTH	150	90	24
88466	CP82 FRH	500	230	GY9.5	CP82	FRH	12,500	3200	BDTH	150	90	24
88464	CP82 FRJ	500	240	GY9.5	CP82	FRJ	12,500	3200	BDTH	150	90	24
88465	T18 GCW	500	230-240	GY9.5	T18	GCW	11,000	3050	BDTH	400	90	24
88470	T25 GCW	500	230-240	GY9.5	T25	GCW	11,000	3000	BDTH	360	90	24
88469	T27 GCS	650	230-240	GY9.5	T27	GCS	14,500	3050	BDTH	400	90	24
88463	T26 GCS	650	230-240	GY9.5	T26	GCS	15,500	3100	BDTH	400	90	24
88462	CP89 FRK	650	120	GY9.5	CP89	-	16,900	3200	BDTH	200	90	24
88461	CP89 FRM	650	230-240	GY9.5	CP89	FRM	16,250	3200	BDTH	150	90	24
88504	FMR	600	120	GY9.5	FMR	-	12,600	3050	BDTHCH	2,000	85	24

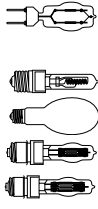


SHOWBIZ Lamps



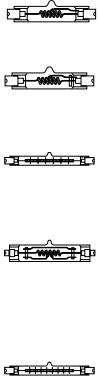
Product Code	Product Description	Wattage [W]	Volts [V]	Cap	LIF Code	ANSI Code	Lumen [lm]	CCT [K]	Operating position	Life [h]	Length [mm]	Pack Qty
Single Ended Halogen												
88431	T12	650	230-240	GX9.5	T12	-	13,500	3000	BDTH	750	110	12
72680	CP23	650	230	GX9.5	CP23	-	16,900	3200	BDTH	100	110	12
88455	CP23	650	230-240	GX9.5	CP23	-	16,900	3200	BDTH	100	110	12
88459	CP24	1000	230-240	GX9.5	CP24	-	26,000	3200	BDTH	200	110	12
88515	T11 Q1000T8/CL	1000	115/120	GX9.5	T11	-	23,500	3050	BDTH	750	110	24
88456	T11	1000	240	GX9.5	T11	-	23,000	3050	BDTH	750	110	12
88457	T19 FWR	1000	230-240	GX9.5	T19	FWR	21,000	3050	BDTH	750	110	12
88472	CP70 FVA	1000	230	GX9.5	CP70	FVA	25,000	3200	BDTH	200	110	12
88471	CP70 FVA	1000	240	GX9.5	CP70	FVB	25,000	3200	BDTH	200	110	12
88454	T29 FWT	1200	230-240	GX9.5	T29	FWT	29,000	3050	BDTH	400	110	12
88453	CP90	1200	230-240	GX9.5	CP90	-	33,000	3200	BDTH	200	110	12
96735	CP43 FTL	2000	230	GY16	CP43	FTM	54,000	3200	BDTH	400	145	12
88533	CP43 FTL	2000	230-240	GY16	CP43	FTL	54,000	3200	BDTH	400	145	12
88503	CP79	2000	230-240	GY16	CP79	-	54,000	3200	BDTH	350	145	12
88439	CP110 OC1200	1200	80	G22	-	-	37,500	3300	BDTH	300	140	12
88509	EGN	500	120	G22	-	EGN	13,000	3200	BDTH	150	140	12
88531	CP39 FKH	650	230-240	G22	CP39	FKH	16,900	3200	BDTH	100	140	12
88622	EGT	1000	120	G22	-	EGT	28,500	3200	BDTH	250	127	12
88458	CP40 FKJ	1000	230	G22	CP40	FKJ	26,000	3200	BDTH	200	140	12
88538	CP40 FKJ	1000	240	G22	CP40	FKJ	26,000	3200	BDTH	200	140	12
88508	CP93	1200	230-240	G22	CP93	-	33,000	3200	BDTH	200	140	12
88507	CP92	2000	120	G22	CP92	-	55,000	3200	BDTH	400	175	12
88506	CP92	2000	230-240	G22	CP92	-	52,000	3200	BDTH	400	175	12
88505	CP91	2500	230-240	G22	CP91	-	67,500	3200	BDTH	400	175	12
88617	EGE	500	120	P28s	-	EGE	10450	2950	U	2,000	152	12
88546	BTM	500	120	P28s	-	BTM	13000	3200	BDTH	150	130	12
88498	T17 FKF	500	230-240	P28s	T17	-	9,500	2950	BDTH	750	130	12
88451	T28	500	230-240	P28s	T28	-	11,000	3000	BDTH	300	130	12
88497	T13 FKB	650	230-240	P28s	T13	-	13,500	3000	BDTH	750	130	12
88530	CP51 FKM	650	240	P28s	CP51	-	16900	3200	BDTH	200	130	12
88615	EGJ	1000	120	P28s	-	EGJ	27500	3200	U	500	152	12
88529	T14 FKD	1000	230-240	P28s	T14	-	23,000	3050	BDTH	750	130	12
88499	FKE	1000	230-240	P28s	T15	FKE	23,000	3050	BDTH	750	160	12
88496	CP52 FKN	1000	230-240	P28s	CP52	FKN	26,000	3200	BDTH	200	121	12
88610	CYX	2000	120	G38	HX270	CYX	59000	3200	BDTH	400	216	6
88489	CP41 FKK	2000	230	G38	CP41	FKK	54,000	3200	BDTH	400	216	12
88488	CP41 FKK	2000	240	G38	CP41	FKK	54,000	3200	BDTH	400	216	12
88502	CP94	2500	230-240	G38	CP94	-	67500	3200	BDTH	400	210	12
88874	HX48	3000	230-240	G38	HX48	-	82000	3200	BDTH	400	210	12
88875	CP29	5000	230	G38	CP29	-	135000	3200	BDTH	500	279	12
88876	CP29	5000	240	G38	CP29	-	135,000	3200	BDTH	500	279	12
12036	CP83	10000	220-230	G38	CP83	-	280,000	3200	BDTH	250	405	1
12037	CP83	10000	240	G38	CP83	-	280,000	3200	BDTH	250	405	1
48771	Q12MT26/4CL	12000	230	GX38	-	-	420,000	3400	BD45	130	410	1
48779	Q12MT26/4CL	12000	240	GX38	-	-	420,000	3400	BD45	130	410	1
48773	BCM-020MT324CL	20000	230	GX38	-	BCM	580,000	3200	BD45	400	560	1
48774	BCM-020MT324CL	20000	240	GX38	-	BCM	580,000	3200	BD45	400	560	1
48777	Q24MT32/4CL	24000	240	GX38	-	-	800,000	3400	BD45	150	560	1

Product Code	Product Description	Wattage [W]	Volts [V]	Cap	LIF Code	ANSI Code	Lumen [lm]	CCT [K]	Operating position	Life [h]	Length [mm]	Pack Qty
Single Ended Halogen												
88880	CP105	1250/650	230-240	GX38q	CP105	-	27000/13000	3050	BD45	250	220	1
88877	CP30	1250/1250	230-240	GX38q	CP30	-	27M/56M	3200	BD45	300	220	1
88878	CP58	1250/2500	230-240	GX38q	CP58	-	27M/91M	3200	BD45	300	220	1
88879	CP32	2500/2500	230-240	GX38q	CP32	-	5900/127000	3200	BD45	300	220	1
88512	CP59	2000	240	R7s	FAD	-	16,500	3200	U	100	191	1
19926	DKZ/DSE	1000	120	E39	-	DSE	28,000	3200	U	750	330	10
88500	T16	1500	120	P40s	T16	DTA	41000	3200	BDTH	750	180	6
88532	CP53	2000	230-240	P40s	CP53	-	54,000	3200	BDTH	400	200	12



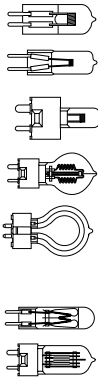
Double Ended Quartzline

30325	FAD	650	120	R7s	P2/6	FAD	16,500	3200	U	100	80	24
36952	DXX	800	230	R7s	P2/13	DXX	21,400	3200	U	75	80	24
36953	DXX	800	240	R7s	P2/13	DXX	21,400	3200	U	75	80	24
30157	DXW	1000	120	R7s	-	DXW	28,000	3200	U	150	95	24
30374	FBY	1000	120	R7s	-	FBY	26,000	3200	U	150	95	24
23756	EJG	750	120	R7s	-	EJG	20,600	3200	HOR±15°	400	119	12
23760	P2/11 EME/Clear	800	240	R7s	P2/11	EME	22,000	3200	HOR±15°	150	119	12
23761	P2/11 EMF/Frosted	800	240	R7s	P2/11	EMF	21,400	3200	HOR±15°	150	119	12
23797	P2/28 FCM	1000	120	R7s	P2/28	FCM	28,000	3200	HOR±15°	400	119	12
88482	P2/27 FEX	2000	230	R7s	P2/27	FEX	50,000	3200	HOR±15°	300	143	12
88481	P2/27 FEX	2000	240	R7s	P2/27	FEX	50,000	3200	HOR±15°	300	143	12
88629	FEY	2000	120	R7s	P2/27	FEY	57,000	3200	HOR±15°	400	143	12
19697	P2/10	625	230	R7s	P2/10	-	16,900	3200	HOR±15°	300	189	12
19698	P2/10	625	240	R7s	P2/10	-	16,900	3200	HOR±15°	300	189	12
20249	P2/7 EKM	1000	230	R7s	P2/7	EKM	28,000	3200	HOR±15°	300	189	12
20253	P2/7 EKM	1000	240	R7s	P2/7	EKM	28,000	3200	HOR±15°	300	189	12
19695	P2/12	1250	230	R7s	P2/12	-	35,000	3200	HOR±15°	300	189	12
19696	P2/12	1250	240	R7s	P2/12	-	35,000	3200	HOR±15°	300	189	12

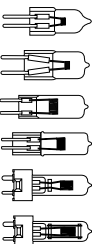


Specialist Projector

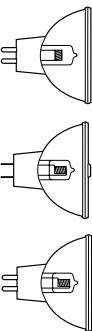
37346	DZA	30	10.8	G5.3	-	DZA	530	3100	BDTHCH	400	51	24
18234	BRL A1/220	50	12	G6.35	A1/220	BRL	1,400	3400	BDTH	50	44	100
14876	FCR A1/215	100	12	GY6.35	A1/215	FCR	3,500	3300	BDTH	50	44	100
18235	BRJ/EVB A1/234	150	15	G6.35	A1/234	BRJ/EVB	5,000	3400	BDTH	50	44	100
37695	DZE/FDS A1/262	150	24	G29.5	A1/262	DZE/FDS	5,000	3250	BDTH	100	68	24
13598	FCS A1/216	150	24	G6.35	A1/216	FCS	4,500	3300	BDTH	50	51	100
14874	EHJ A1/223	250	24	G6.35	A1/223	EHJ	9,000	3400	BDTH	50	57	100
18241	FNT	275	24	G6.35	-	FNT	10,000	3400	BDTH	50	57	100
41164	EVD A1/239	400	36	GY6.35	A1/239	EVD	16,000	3200	BDTH	50	60	25
26895	DYR A1/233	650	240	G29.5	A1/233	DYR	16,500	3200	U	50	64	24
88484	HX185	800	230-240	GX9.5	HX185	-	19,000	3050	BDTH	300	100	24
88492	A1/248	150	230-240	G6.35	A1/248	-	3,000	NA	BDTH	50	62	50
88491	A1/249	300	230-240	G6.35	A1/249	-	7,200	NA	BDTH	50	62	50
88460	A1/244	500	230-240	GY9.5	A1/244	-	13,000	NA	BDTH	75	62	24



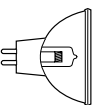
SHOWBIZ Lamps



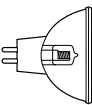
Product Code	Product Description	Wattage [W]	Volts [V]	Cap	LIF Code	Lumen [lm]	CCT [K]	Operating position	Life [h]	Length [mm]	Pack Qty
Single Ended Tungsten Halogen											
34720	M29/ESA	10	6	G4	M29/ESA	200	3200	BDTH	100	30	20
34718	M30/ESB	20	6	G4	M30/ESB	450	3200	BDTH	100	30	20
34702	M32	50	12	GY6.35	M32	930	3000	BDTH	4,000	44	20
34676	M28/EVA	100	12	GY6.35	M28/EVA	2,400	3000	BDTH	2,000	44	20
34768	M33	250	24	G6.35	M33	8,600	3000	BDTH	300	55	100
88516	M36	250	24	G6.35	M36	5,750	3000	BDTH	2,000	58	100
88442	M38	300	230-240	GY9.5	M38	5,000	2900	BDTH	2,000	80	24
78343	M38	300	120	GY9.5	M38	TBA	2900	BDTH	2,000	80	24
88468	M40	500	230-240	GY9.5	M40	8,500	2900	BDTH	2,000	85	24



Product Code	Product Description	Wattage [W]	Volts [V]	Cap	LIF Code	ANSI Code	CCT [K]	Operating position	Life [h]	Pack Qty
Multi-Mirror Quartzline Projection - MR16										
36902	EKZ	30	10.8	GX5.3	-	EKZ	3100	BDTH	200	20
43988	DDS	80	21	GX5.3	-	DDS	3125	BDTH	1000	20
43950	DED	85	13.8	GX5.3	-	DED	3150	BDTH	1000	20
43537	DDL	150	20	GX5.3	-	DDL	3150	BDTH	500	20
38306	ELD/EJN	150	21	GX5.3	-	ELD/EJN	3350	BDTH	40	20
35200	EKE	150	21	GX5.3	-	EKE	3250	BDTH	200	20
29150	EJL A1/252	200	24	GX5.3	A1/252	EJL	3400	BDTH	50	20
37462	ELC A1/259	250	24	GX5.3	A1/259	ELC	3400	BDTH	50	20
15377	ELC500	250	24	GY5.3	-	ELC500	3250	BDTH	500	20
38686	ENH	250	120	GY5.3	-	ENH	3250	BDTH	175	20
38476	ELH	300	120	GY5.3	-	ELH	3350	BDTH	35	10
32882	EJA	150	21	GX5.3	-	EJA	3350	BDTH	40	20



Product Code	Product Description	Wattage [W]	Volts [V]	Cap	ANSI Code	CCT [K]	Operating position	Life [h]	Pack Qty
Multi-Mirror Quartzline Projection - MR16									
41729	EPT	42	10.8	GX5.3	EPT	2900	BDTH	8000	20
25475	ENL	50	12	GX5.3	ENL	3050	BDTH	4000	20
41882	EPV	90	14.5	GX5.3	EPV	3150	BDTH	500	20
42614	EPX	90	14.5	GX5.3	EPX	3150	BDTH	500	20
41874	ERV	340	36	GX5.3	ERV	3300	BDTH	75	20
41705	ENX	360	82	GY5.3	ENX	3300	BDTH	75	20
21613	FXL	410	82	GY5.3	FXL	3300	BDTH	38	20



Multi-Mirror Quartzline Projection - MR11									
25261	FLT	28	13.8	GZ4	FLT	3050	BDTH	500	10
Multi-Mirror Quartzline Projection - MR13									
12097	EXY	250	82	GX5.3	EXY	3200	BDTH	200	10
12092	EXR	300	82	GX5.3	EXR	3350	BDTH	35	10

The following pages show GE and alternative brand Order Codes. These cross references are provided as a quick guide and may only represent a near equivalent to other brands. The table contains data from alternative brands' catalogues and website.

GE	OSRAM		PHILIPS
Discharge CSR/CSD (Daylight) Metal Halide, Turn and Lock		GE Product Code	
CSR300/2/TAL	76160	-	MSR 300/2 MiniFastFit
CSD300/2/TAL	TBA	HSD300W/80/P28	MSD 300/2 MiniFastFit
CSR700/TAL/60/PGJX50	76161	HTI 700W/75/P50	MSR 700 FastFit
CSR700/TAL/60/PGJX28	78718	HTI 700W/75/P28	MSR 700/2 MiniFastFit
CSR1500/TAL/60/S	74873	HTI 1500W/60/P50	MSR 1500 FastFit
Discharge CSR/CSD (Daylight) Metal Halide, Single End Cold Start			
CSD250/2/SE	27817	HSD250/80	MSD250/2
CSR575/2/T/SE	49492	-	-
CSR575/2/SE	15378	HSR575/2	MSR575/2
CSR700/2/SE	49491	HSR700/2	MSR700/2
CSR1200/2/SE	49490	HSR1200/2	MSR1200/2
Discharge CSR (Daylight) Metal Halide, Single End Short Arc			
CSR700/SA	15380	HTI705W/SE	MSR700/SA
CSR700/SA/72	45234	-	-
CSR1200/SA	21849	HTI1200W/SE	MSR1200/SA
CSR2000/SA	21801	HTI1800W/SE	MSR2000/SA
Discharge CSR (Daylight) Metal Halide, Single End Hot Restrike			
CSR125/SE/HR	48461	HMI125W	MSR125/HR
CSR400/SE/HR/75	45238	-	-
CSR575/SE/HR	48463	HMI575W/SE	MSR575/HR
CSR1200/SE/HR	48464	HMI1200W/SE	MSR1200/HR
CSR2500/SE/HR	48465	HMI2500W/SE	MSR2500/HR
CSR4000/SE/HR	48466	HMI4000W/SE	MSR4000/HR
CSR6000/SE/HR	48467	HMI6000W/SE	MSR6000/HR
CSR12000/SE/HR	48468	HMI12000W/SE	MSR12000/HR
CSR18000/SE/HR	22496	HMI18000W/SE	MSR18000/HR
Discharge CSR (Daylight) Metal Halide, Single End Hot Restrike, UV Control			
CSR200/SE/HR/UV	48462	HMI200W/SE	MSR200/HR
CSR400/SE/HR/UV	21853	HMI400W/SE	MSR400/HR
CSR575/SE/HR/UV	40460	HMI575W/SE	MSR575/HR
CSR800/SE/HR/UV	22495	-	-
CSR1200/SE/HRUV	27764	HMI1200W/SE	MSR1200/HR
CSR1800/SE/HRUV	77390	HMI1800W/SE/XS	-
CSR2500/SE/HRUV	40482	HMI2500W/SE	MSR2500/HR
CSR4000/SE/HRUV	27765	HMI4000W/SE	MSR4000/HR
CSR6000/SE/HRUV	40492	HMI6000W/SE	MSR6000/HR
Discharge CSR (Daylight) Metal Halide, Linear Double End Hot Restrike			
CSR200/DE	48450	HMI200W	-
CSR400/S/DE/70	22478	HTI400W/D3/75	MSR400/SA/2/DE
CSR400/S/DE/90	45232	-	-
CSR575/S/DE/70	70979	HTI575W/D4/75	MSR575/SA/2/DE
CSR575/SS/DE/75	45231	-	-
CSR700/S/DE/60	22493	HTI700W/D4/60	-
CSR700/S/DE/72	41357	HTI700W/D4/75	MSR700/SA/2/DE
CSR1200/S/DE/60	22494	HTI1200W/D7/60	MSR1200/SA/DE
CSR1200/S/DE/72	41361	HTI1200W/D7/75	MSR1200/SA/2/DE
CSR1200/S/DE/60/STB	96802	-	-
CSR200/DE	48453	HMI1200W/GS	MSI1200
CSR1500/S/DE/60/STB	96800	HTI1500 D7/60	-
CSR2500/DE	48454	HMI2500W/GS	MSI2500
CSR4000/DE	48455	HMI4000W/GS	MSI4000
CSR6000/DE	48456	HMI6000W	MSI6000
CSR12000/DE	48457	HMI12000W/GS	MSI12000
CSR18000/DE	48459	HMI18000W	-
CSR24000/DE	78710	HMI24000W/DXS	-

Specialty Lamps



GE's specialty lighting provides the most suitable lamp products for professional users in fields including healthcare, aviation, municipality and semi-product with its specialized high-tech and reliability.



Specialty Lamps

GE has a wide range of lamps for a variety of special applications. These applications include:

Fly and insect control

- Special Phosphor – Black Light (BL)
- UVA 315-400nm
- Lamps to attract fly and insects
- Effect UV irradiance over life
- For use in fly traps
- Common use in food production areas

Inspection and effect

- Special Phosphor – Black Light Blue (BLB)
- UVA lamps with special Blue cobalt glass
- Used where fine detail or trace evidence is examined
- Create glow effect for club and event lighting

Bacterial destruction

- UVC 200-280 nm
- For water, air and surface sterilisation
- Destroys micro-organisms via absorption of UV light

Shatter protection

- Lamp encased in high quality plastic sleeve
- Used where avoidance of glass contamination is critical

Aquarium

- Various colours and UV outputs
- Promotes coral, invertebrate and plant growth
- For use with tropical fish and reptiles

Space and industrial heating

- Turning light to heat
- Directional instant radiant heat
- Heats objects and people not the air between
- Ideal for space heating outside bars and restaurants
- Many industrial applications from paint drying to plastic bottle making

Airfield

- Range of lamps for use on airfields
- Runway and taxiway lighting



GE UV Lamps

UVC Germicidal, UVA Blacklight, Blacklight Blue

GE provides the very best in product innovation, reliability, and quality. As one of the largest lamp manufacturers in the world, we offer customers our extensive knowledge and a comprehensive portfolio of UV lamps.



UVC Germicidal Water, air, and surface sterilisation

As our society demands a cleaner environment to live and work in, GE provides a safer and more efficient sterilisation technique. UVC Germicidal lamps' special glass transmits a spectral band of UV light effective for sterilisation. The UVC wavelength of 254 nm is proven to destroy air-borne bacteria, viruses, and mold spores by preventing DNA replication, effective even if the organism has become immune to other disinfection methods.



Application areas

- Sterilisation
- Insect traps
- Night clubs and events
- Diazo copy machines
- Marine/aquarium
- Film making

Application areas

- Healthcare
- HVAC Systems in commercial buildings
- Food processing
- Scientific labs
- Industrial, municipal, and residential water and pond treatment
- Biotech industry

Blacklight & Blacklight Blue

Blacklight lamps consist of a regular fluorescent tube with a special phosphor coating to emit in the UVA range. These phosphors contain rare earth components that enable the lamp to last over a complete insect season. Blacklight Blue lamps are made of cobalt blue glass which absorbs most visible light.



Application areas

- Special effects in night clubs and events
- Insect traps
- Inspection and authentication
- Food processing plants
- Supermarkets/butchers/bakeries
- Restaurants

Product identification

The following glossary of terms will help you when selecting lamps in this section. Within each product line, lamps are divided into families – within these families, lamps are listed by wattage. The Product Description can be used as a quick reference to each product’s attributes. Where Life or Average Life are stated we refer to the industry standard definition of how many hours of operation 50% of a given installation will exceed.

Additional parameters:
UV Output [Watts]: The initial UV Output at 100 hours
Initial UVA Irradiance [mW/cm2 @ 20cm]: UV Output at 1 m after 100 hours
Lumens: Initial amount of light output
CCT [K]: Colour Temperature - Kelvins
A measure of the visual “warmth” or “coolness” of the light from the lamp. The higher the value the whiter or “cooler” the light appears.
CRI [Ra]: Colour Rendering Index
An indication of the ability of the lamp to render object colours in a normal, natural way. The higher the number (0-100), the better the colour appearance.

	Blacklight Blue	110
	UVA & UVC Germicidal	110
	covRguard	111
	Aquarium	112
	Quartz Heat	113
	Airfield Lighting	114

Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Peak Wavelength [nm]	Life [h]	Length [mm]	Pack Qty
Blacklight Blue T5								
39882	F4W/BLB	4	29	G5	368	5,000	150	25
39883	F6W/BLB	6	42	G5	368	5,000	225	25
39884	F8W/BLB	8	57	G5	368	5,000	300	25

Product description:
The lamp's identification code

Watts:
Energy Used – Nominal Watts. To estimate energy consumption (kWh), multiply watts x hours of use and divide by 1000

Cap:
The type of cap fitted. See page 134-135 for cap drawings

Peak Wavelength [nm]

Length:
Lamp length in mm

Product code:
It is important to use this code when ordering to ensure that you receive the exact product you require

(F) Identifies the lamp as Fluorescent

F4W / BLB

(4W) Identifies the lamp's wattage

(BLB) Identifies product type

Volts:
Lamp data is based on operating voltage

Life:
Rated average life

Pack quantity:
Number of product units packed in a case



Specialty Lamps



Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Peak Wavelength [nm]	Life [h]	Length [mm]	Pack Qty
Blacklight Blue T5								
39882	F4W/T5/BLB	4	29	G5	368	5,000	150	25
39883	F6W/T5/BLB	6	42	G5	368	5,000	225	25
39884	F8W/T5/BLB	8	57	G5	368	5,000	300	25



Blacklight Blue T8								
88832	F18/T8/BLB	18	57	G13	368	12,000	600	25
88833	F36/T8/BLB	36	103	G13	368	12,000	1,200	25



Blacklight Blue T12								
34747	F20W/T12/BLB	20	57	G13	368	9,000	600	6
25618	F40W/T12/BLB	40	101	G13	368	20,000	1200	6



Black Light T8								
16941	F15WBL 350	15	55	G13	350	7,500	450	25

covRguard Blacklight								
72939	F15WBLCVG	15	55	G13	368	7,500	450	6



Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Initial UVA Irradiance1 [mW/cm2 @ 20cm]	Peak Wavelength [nm]	Life [h]	Length [mm]	Pack Qty
UVA Blacklight Biax - Internal Starter									
42935	F9BX BL G23	9	60	G23	440	368	440	167	10
42936	F11BX BL G23	11	91	G23	670	368	670	237	10
42937	F13BX BL GX23	13.4	58	GX23	630	368	630	177.5	10



UVA Blacklight Biax L - External Starter									
42939	F24BX BL 2G11	24	87	2G11	980	368	980	326.8	10
42940	F36BX BL 2G11	36	107	2G11	1280	368	1,280	421.8	10
42941	F55BX BL 2G11	55	101	2G11	1630	368	1,630	541.8	10



Product Code	Product Description	Wattage [W]	Volts [V]	Cap	UV Output [Watts]	Peak Wavelength [nm]	Life [h]	Length [mm]	Pack Qty
Germicidal T5									
15872	G4T5	4	29	Miniature Bi-pin	0.8	254	6,000	150	24
15873	G6T5	6	42	Miniature Bi-pin	1.7	254	6,000	226	24
11077	G8T5	8	57	Miniature Bi-pin	2.3	254	8,000	302	24
29495	G11T5	11	37	Miniature Bi-pin	2.2	254	8,000	226	24
16494	G16T5	16	50	Miniature Bi-pin	3.2	254	8,000	302	24
15874	G36T5	39	107	Single-pin (Fa8)	12	254	9,000	865	24
15864	G64T5	65	180	Single-pin (Fa8)	18	254	7,500	1575	24
29504	G64T5/4P/SE	65	250	Single 4 pin end cap	25	NA	8,000	1556	24



Product Code	Product Description	Wattage [W]	Volts [V]	Cap	UV Output [Watts]	Life [h]	Length [mm]	Pack Qty
Germicidal T8								
11078	G15T8	15	55	G13 Medium Bi-pin	4.8	8,000	451	24
11082	G25T8	25	46	G13 Medium Bi-pin	6.9	8,000	451	24
11080	G30T8	30	90	G13 Medium Bi-pin	12.4	8,000	908	24
15875	G55T8HO	55	83	G13 Medium Bi-pin	18	8,000	908	24



Germicidal T4 Biax								
40695	GBX5/UVC G23	5	35	G23 2-pin	1.0	8,000	85	10
40696	GBX9/UVC G23	9	59	G23 2-pin	2.4	8,000	145	10
40700	GBX11/UVC G23	11	89	G23 2-pin	3.6	8,000	215	10



Germicidal T6 Biax								
40703	GBX13/UVC GX23	13	59	GX23 2-pin	3.6	8,000	170	10
40704	GBX18/UVC/2G11	18	58	2G11 4-pin	5.3	8,000	225	10
40705	GBX36/UVC/2G11	36	106	2G114-pin	12	8,000	415	10
40706	GBX55/UVC/2G11	55	101	2G114-pin	16.5	8,000	535	10

covRguard Germicidal								
72761	G15T8/CVG	15	55	G13 Medium Bi-pin	4.8	8,000	451	24
72762	G25T8/CVG	25	46	G13 Medium Bi-pin	6.9	8,000	451	24
72763	G30T8/CVG	30	90	G13 Medium Bi-pin	12.4	8,000	908	24
72764	G55T8/CVG	55	83	G13 Medium Bi-pin	18	8,000	908	24

Product Code	Product Description	Wattage [W]	Cap	Lumen [lm]	CCT [K]	CRI [Ra]	Life [h]	Length [mm]	Pack Qty
T8 covRguard Polylux XLr									
17203	F18W/830CVG	18	G13	1300	2950	85	15,000	600	25
17204	F18W/835CVG	18	G13	1300	3400	85	15,000	600	25
17205	F18W/840CVG	18	G13	1300	4000	85	15,000	600	25
17208	F36W/830CVG	36	G13	3250	2950	85	15,000	1200	25
17202	F36W/835CVG	36	G13	3250	3400	85	15,000	1200	25
17209	F36W/840CVG	36	G13	3250	4000	85	15,000	1200	25
12403	F58W/830CVG	58	G13	5050	2950	85	15,000	1500	25
12405	F58W/835CVG	58	G13	5050	3400	85	15,000	1500	25
12407	F58W/840CVG	58	G13	5050	4000	85	15,000	1500	25
12423	F70W/835CVG	70	G13	6100	3400	85	15,000	1800	25
12424	F70W/840CVG	70	G13	6100	4000	85	15,000	1800	25



Specialty Lamps



Product Code	Product Description	Wattage [W]	Cap	Lumen [lm]	CCT [K]	CRI [Ra]	Life [h]	Length [mm]	Pack Qty
T5 covRguard Starcoat High Output (HO)									
71000	F24W/T5/830/ECO/CVG	24	G5	1950	3000	85	30,000	549	40
70998	F24W/T5/835/ECO/CVG	24	G5	1950	3500	85	30,000	549	40
70997	F24W/T5/841/ECO/CVG	24	G5	1950	4100	85	30,000	549	40
70999	F24W/T5/850/ECO/CVG	24	G5	1850	5000	85	30,000	549	40
70996	F24W/T5/865/ECO/CVG	24	G5	1800	6500	85	30,000	549	40
70995	F39W/T5/830/ECO/CVG	39	G5	3400	3000	85	30,000	849	40
70994	F39W/T5/835/ECO/CVG	39	G5	3400	3500	85	30,000	849	40
70993	F39W/T5/841/ECO/CVG	39	G5	3400	4100	85	30,000	849	40
70991	F39W/T5/850/ECO/CVG	39	G5	3250	5000	85	30,000	849	40
70990	F39W/T5/865/ECO/CVG	39	G5	3200	6500	85	30,000	849	40
48433	F54T5/830/HO/ECO/CVG	54	G5	4560	3000	85	30,000	1149	40
48436	F54T5/835/HO/ECO/CVG	54	G5	4560	3500	85	30,000	1149	40
48458	F54T5/841/HO/ECO/CVG	54	G5	4560	4100	85	30,000	1149	40
80311	F54T5/850/HO/ECO/CVG	54	G5	4465	5000	85	30,000	1149	40
48469	F54T5/865/HO/ECO/CVG	54	G5	4465	6500	85	30,000	1149	40



T5 Watt-Miser covRguard									
72985	F54T5/830//ECO/WM/CVG	54	G5	4330	3000	85	25,000	1149	40
72986	F54T5/835//ECO/WM/CVG	54	G5	4330	3500	85	25,000	1149	40
72987	F54T5/841/ECO/WM/CVG	54	G5	4330	4100	85	25,000	1149	40
72988	F54T5/850//ECO/WM/CVG	54	G5	4120	5000	85	25,000	1149	40
72989	F54T5/865//ECO/WM/CVG	54	G5	3980	6500	85	25,000	1149	40



Product Code	Product Description	Wattage [W]	Cap	Additional Information	Lumen [lm]	CCT [K]	CRI [Ra]	Life [h]	Length [mm]	Pack Qty
T8 Aquarium and Reptile*										
44212	F15T8 F&SA	15	G13	Fresh & Salt Aqua	700	10000	60	9,000	450	6
16987 /44230	F15T8 SW	15	G13	Salt Water	210	-	-	7,500	450	10/6
44239	F15T8 REP	15	G13	Reptile	400	6400	82	7,500	450	6
44213	F18T8 F&SA	18	G13	Fresh & Salt Aqua	950	10000	60	10,000	450	6
44231	F18T8 SW	18	G13	Salt Water	430	-	-	9,000	600	6
44240	F18T8 REP	18	G13	Reptile	550	6400	82	7,500	600	6
16968	F25T8 F&SA	25	G13	Fresh & Salt Aqua	1350	10000	60	15,000	760	10
16991	F25T8 SW	25	G13	Salt Water	430	-	-	7,500	762	10
16969 /44218	F30T8 F&SA	30	G13	Fresh & Salt Aqua	1700	10000	60	15,000	910	10/6
16992 /44235	F30T8 SW	30	G13	Salt Water	540	-	-	7,500	910	10/6
44241	F30T8 REP	30	G13	Reptile	1100	6400	82	7,500	910	6
16970 /44219	F36T8 F&SA	36	G13	Fresh & Salt Aqua	2350	10000	60	15,000	1200	10/6
16995 /44236	F36T8 SW	36	G13	Salt Water	700	-	-	7,500	1200	10/6
44242	F36T8 REP	36	G13	Reptile	1250	6400	82	7,500	1200	6
44220	F38T8 F&SA	38	G13	Fresh & Salt Aqua	2200	10000	60	15,000	1060	6
16984	F38T8 FA	38	G13	Fresh Aqua	1320	5000	70	7,500	1060	10
16999	F38T8 SW	38	G13	Salt Water	650	-	-	7,500	1060	10

*This range is in transition from a 10 pack to a 6 pack.

Product Code	Product Description	Wattage [W]	Volts [V]	Cap	CCT [K]	Life [h]	Length [mm]	Pack Qty
Quartz Heat								
21788	QH500T3/CL	500	120	Slv	2400	5,000	223.8	12
21787	QH500T3/CL/7	500	120	R7S	2400	5,000	220.5	12
22355	QH1000T3/CL	1000	200-220	Slv	2400	5,000	351	12
22357	QH1000T3/CL	1000	230-250	Slv	2400	5,000	351	12
21377	QH1MT3/CL/R/MS-235V	1000	235	Slv	2500	5,000	483	12
22357	QH1000T3/CL	1000	230-250	Slv	2400	5,000	351	12
22531	QH1200T3/CL	1200	144	Slv	2450	5,000	223.8	12
22532	QH1200T3/CL/HT	1200	144	Slv	2450	5,000	223.8	12
22691	QH1600T3/CL/7	1600	230-250	R7S	2400	5,000	498.4	12
22688	QH1600T3/CL	1600	230-250	Slv	2400	5,000	503	12
22789	QH2M/T3/1CL/HT	2000	230	Slv	2450	5,000	303	12
15551	QH2M/T3/1CL/HT/VB	2000	230-250	Slv	2450	5,000	303	12
18668	QH2MT3/CL/VB	2000	220-250	Slv	2450	5,000	350.5	12
22790	QH2M/T3/CL/HT	2000	230-250	Slv	2450	5,000	350.8	12
12716	QH2MT3/CL/HT/R	2000	230-250	CER	2450	5,000	352.5	12
22838	QH2500T3/CL	2500	460-500	Slv	2400	5,000	731	12
10872	QH3650/CL/5	3650	480	Slv	2500	5,000	1057	6
22875	QH3800/CL	3800	550-600	Slv	2500	5,000	1062	6
22900	QH5M/T3/1CL/HT	5000	575-625	Slv	2500	5,000	731.8	12



Product Code	Product Description	Wattage [W]	Volts [V]	Cap	CCT [K]	Life [h]	Length [mm]	Pack Qty
Jacketed Quartz Heat								
20092	HH 451 1500W RUBY 230-240V	1500	230-240	Special	2450	5,000	348	10
20093	HH 804 2000W RUBY 230-240V	2000	230-240	Special	2450	5,000	348	10



Infrared Quartz Heat – Ruby Slim								
40723	QH 750W 230-240V Ruby Slim	750	230-240	RX7s	2450	5000	202.8	10
42740	QH 1300W 230-240V Ruby Slim	1300	230-240	RX7s	2450	5000	254	10

Specialty Lamps

Product Code	Product Description	Wattage [W]	Volts [V]	Cap	Lumen [lm]	Life [h]	Length [mm]	Pack Qty
Airfield Lighting								
11478	EXL	30	6.6A	Gz9.5 2 Pin	375	1000	44.5	24
11482	EXM	45	6.6A	Gz9.5 2 Pin	750	1000	44.5	24
80583	Q6.6A45PK30d male	45	6.6A	PK30d	800	1000	13.5	10
88420	AF6/2 6.6A 45W	45	6.6A	Mycalex cap & Prefocus collar	760	600	54	100
32917	Q65T2 1/2/1/CL	65	6.6A	Special	1200	1000		200
88417	AF 6/5T 6.6A 100W	100	6.6A	Mycalex cap & Prefocus collar	2100	600	60	100
80584	Q6.6A100PK30d male	100	6.6A	PK30d	2700	1000	13.5	10
80588	Q6.6A100PK30d female	100	6.6A	PK30d	2700	1000	13.5	10
80585	Q6.6A150PK30d male	150	6.6A	PK30d	3600	1000	13.5	10
80589	Q6.6A150PK30d female	150	6.6A	PK30d	3600	1000	13.5	10
80586	Q6.6A200PK30d male	200	6.6A	PK30d	4800	1000	13.5	10
80590	Q6.6A200PK30d female	200	6.6A	PK30d	4800	1000	13.5	10
23857	Q6.6A/T4/5CL	200	6.6A	Special 1" Ribbon Leads	5000	500	76	12
23860	Q6.6AT4/DCR	200	6.6A	D.C.Bay	5150	500	64	12
33279	Q6.6A/PAR56/3	200	6.6A	Scrw Term	NA	1000	114	12
88413	AF7/2 6.6A 200W	200	6.6A	Mycalex cap & Prefocus collar	4800	600	54	100
15482	Q20A/PAR56/C	300	20A	Mog End Pr GX16d	NA	500	127	12
23863	Q20A/PAR56/3	499	20A	Scrw Term	NA	500	114	12
88525	IM T20BP	1000	120	G38 Mog BiPost	22000	500	241	12
88523	1200T20	1200	115	G38 Mog BiPost	29600	750	241	12

Ballast



GE's ballast products include ballasts for HID, CFL and LFL. The matching use of GE lamp and ballast produces longer lifetime and better performance.



1. IEC Electromagnetic Ballast & Control Gear for HID Lamp

1.1 HID Electromagnetic Ballast

1.1.1 HID Electromagnetic Ballast (with thermal protector)

Features:

- Full voltage range offering for Asia countries
- MSB for IEC HPS/MH lamp use
- MHB for IEC HPM/MH lamp use
- Long life, high reliability, Tw 130°C
- With thermal protection to prevent overheat of ballast at the end of lamp life
- Low loss, low temperature rise, superior silicon steel sheet, 180°C copper wire

- Compact size, suitable for various fixture design, easy installation
- PF>0.9 with capacitor (working with standard lamp)

Applications:

- Roadway, Tunnel
- Factory, Warehouse
- Architect flood lighting, Sports
- Department store, High Bay



Certifications & Regulations:

- CCC, CB
- Harmonic: IEC 61000-3-2
- EMI: CISPR15
- Safety: IEC 61347-2-9, IEC 61347-1

1.1.2 HID Electromagnetic Ballast (without thermal protector)

Features:

- Full voltage range offering for Asia countries
- MSB for IEC HPS/MH lamp use
- MHB for IEC HPM/MH lamp use
- Long life, high reliability, Tw 130°C
- Low loss, low temperature rise, superior silicon steel sheet, 180°C copper wire
- Compact size, suitable for various fixture design, easy installation
- PF>0.9 with capacitor (working with standard lamp)

Applications:

- Roadway, Tunnel
- Factory, Warehouse
- Architect flood lighting, Sports
- Department store, High Bay

Certifications & Regulations:

- Harmonic: IEC 61000-3-2
- EMI: CISPR15
- Safety: IEC 61347-2-9, IEC 61347-1

1.1.3 CSI Electromagnetic Ballast

Features:

- Designed for CSI/CID MH Lamp
- Full voltage range offering for Asia countries
- Long life, high reliability, Tw 130°C
- Low loss, low temperature rise, superior silicon steel sheet, 180°C copper wire
- PF>0.9 with capacitor (working with standard lamp)

Certifications & Regulations:

- CCC, CB
- Harmonic: IEC 61000-3-2
- EMI: CISPR15
- Safety: IEC 61347-2-9, IEC 61347-1

1.1.4 HID Electromagnetic Ballast (Al Line)



Features:

- Different voltage range for 220V/50Hz, 230V/50Hz
- MSB for IEC HPS/MH lamp use
- MHB for IEC HPM/MH lamp use
- Long life, high reliability, Tw 130°C
- With thermal protection to prevent overheat of ballast at the end of lamp life
- Low loss, low temperature rise, superior silicon steel sheet, 180°C copper wire
- Compact size, suitable for various fixture design, easy installation
- PF>0.9 with capacitor (working with standard lamp)

Applications:

- Roadway, Tunnel
- Architect flood lighting, Sports
- Department store, High Bay

Certifications & Regulations:

- CCC, CE, CB
- Harmonic: IEC 61000-3-2
- EMI: CISPR15
- Safety: IEC 61347-2-9, IEC 61347-1

1.2 HID Capacitor

1.2.1 Capacitor with line



Features:

- Working with HID Electromagnetic Ballast
- Plastic case, over temperature protection device
- Easy installation with 25cm length heat-resistance wiring
- Wide ambient temperature range: -40°C-105°C

Certifications & Regulations:

- CQC, CE
- Safety: IEC 61048

1.2.2 Capacitor with clamp

Features:

- Working with HID Electromagnetic Ballast
- Clamp connector, suitable for various situation
- Self-healing, low loss
- Highly reliable aluminum case, anti-explosion design

- Wide ambient temperature range: -40°C-105°C

Certifications & Regulations:

- CQC, CE
- Safety: IEC 61048



1.3 Ignitor

Features:

- Interactive multi-pulse design to guarantee lamp start
- Ignite both HPS and MH Lamp
- Series connection, safe design by preventing harm to ballast during ignition
- Max case temperature: 105°C
- MSI series
MSI 400, for ballast wattage $\leq 400W$;
MSI 1000, for ballast wattage $\leq 1000W$;

- MSI/L series, Long Distance Ignitor
MSI 400/L, for ballast wattage $\leq 400W$;
MSI 1000/L, for ballast wattage $\leq 1000W$;

Certifications & Regulations:

- CQC, CE
- Safety: IEC 61347-2-1, IEC 61347-1

2. Bi-Level for HPS Electromagnetic System



Features:

- Auto/Manual switch
- Save energy and money by lowering down the wattage of the HPS lamp in appropriate period of time
- Two different control methods and systems

Certifications & Regulations:

- CCC, CB
- Harmonic: IEC 61000-3-2
- EMI: CISPR15
- Safety: IEC 61347-2-8, IEC 61347-1

Systems

Systems Independent control

- Bi-level Ballast
- Ignitor
- Capacitor
- Power Switch

Feature

- Preset timer for single lamp, wattage transition after 5 hours (customization available)
- Simple system, no extra controls and wirings
- Accurate wattage transition time control, easy operation and maintenance.

Centralized control

- Bi-level Ballast
- Ignitor
- Capacitor
- Power Switch
- Timer

Feature

- Lamp group control mode
- Auto/Manual Switch, adjustable transition timing
- Need control line (embedded)

Certifications & Regulations:

- Harmonic: IEC 61000-3-2
- EMI: CISPR15
- Safety: IEC 61347-2-8, IEC 61347-1

3. CWA Electromagnetic Ballast & Control Gear for HID Lamp

3.1 CWA Electromagnetic Ballast

Features:

- GE special design
- Stable power output, excellent choice for high line voltage fluctuation areas
- $PF > 0.9$ with capacitor
- Low start current, minimized disturbing to line voltage
- Ignitor not required, saving cost for system

Applications:

- Factory, Warehouse
- Architect flood lighting, Sports
- Harbor, Square

Certifications & Regulations:

- CCC, CB
- Harmonic: IEC 61000-3-2
- EMI: CISPR15
- Safety: IEC 61347-2-8, IEC 61347-1



3.2 CWA Capacitor

3.2.1 Capacitor with line

Features:

- Working with HID Electromagnetic Ballast
- Highly reliable aluminum case, anti-explosion design
- Easy installation with 25cm length heat-resistance wiring

- Wide ambient temperature range: -40°C-105°C

Certifications & Regulations:

- CQC, CE
- Safety: IEC 61048

3.2.2 Capacitor with clamp

Features:

- Working with HID Electromagnetic Ballast
- Clamp connector, suitable for various situation
- Self-healing, low loss
- Highly reliable aluminum case, anti-explosion design

- Wide ambient temperature range: -40°C-105°C

Certifications & Regulations:

- CQC, CE
- Safety: IEC 61048



4. Electronic Ballast for HID Lamp

4.1 Miniature eHID



Features:

- Bright new design with more compact size, ideal selection for delicate lighting fixtures and various system needs, maximum flexibility to lighting design
- Up to 15% energy saving vs. standard magnetic control gear, and up to 70% energy savings vs. standard HAL/transformer system
- Flicker-free to bring lighting comfort and excellence
- Constant electronically controlled output to resist fluctuations of line voltage and prolong lamp life
- High power factor, low power loss, 'Green' product
- Potting technology to enhance thermal emission performance and to prolong ballast life
- Lamp EOL (End of life) shutdown protection, and short circuit protection
- Working with GE star product CMH lamp to provide competitive lamp/eHID system
- Rated voltage 220-240V, 50/60Hz
- Design life 50,000 hours

Applications:

- Retail
- Department store, Display
- Super market, Hotel
- Airport

Certifications & Regulations:

- CQC, CE, CB, S-MARK, KC
- Harmonic: IEC 61000-3-2, IEC 61000-3-3
- EMC: IEC 61547
- EMI: CISPR15
- Safety: IEC 61347-2-12, IEC 61347-1
- Housing meets UL94V0 flame retardant
- RoHS Compliance

Warning:

- Don't connect either output lead to neutral/common or earth/safety ground
- The ballast case temperature must be less than the indicated Tc temperature
- Neutral line is required to be flawlessly connected when use AC power



4.2 Standard eHID

Features:

- GE designed eHID product brings both guaranteed long life and compact size, to give the most maintenance-free system and excellent design flexibility.
- Up to 15% energy saving vs. standard magnetic control gear, and up to 70% energy savings vs. standard HAL/transformer system
- Flicker-free to bring lighting comfort and excellence
- Constant electronically controlled output to resist fluctuations of line voltage and prolong lamp life
- High power factor, low power loss, 'Green' product
- Potting technology to enhance thermal emission performance and to prolong ballast life

- Lamp EOL (End of life) shutdown protection, and short circuit protection
- Working with GE star product CMH lamp to provide competitive lamp/eHID system
- Rated voltage 220-240V, 50/60Hz
- Design life 50,000 hours

Applications:

- Retail
- Department store, Display
- Super market, Hotel
- Airport

Certifications & Regulations:

- CQC, CE, CB, S-MARK, KC
- Harmonic: IEC 61000-3-2, IEC 61000-3-3
- EMC: IEC 61547
- EMI: CISPR15



- Safety: IEC 61347-2-12, IEC 61347-1
- Housing meets UL94V0 flame retardant
- RoHS Compliance

Warning:

- Don't connect either output lead to neutral/common or earth/safety ground
- The ballast case temperature must be less than the indicated Tc temperature
- Neutral line is required to be flawlessly connected when use AC power

4.3 Economics eHID

Features:

- Bright new design with more compact size, ideal selection for delicate lighting fixtures and various system needs, maximum flexibility to lighting design
- Up to 15% energy saving vs. standard magnetic control gear, and up to 70% energy savings vs. standard HAL/transformer system
- Flicker-free to bring lighting comfort and excellence
- Constant electronically controlled output to resist fluctuations of line voltage and prolong lamp life
- High power factor, low power loss, 'Green' product
- Potting technology to enhance

thermal emission performance and to prolong ballast life

- Lamp EOL (End of life) shutdown protection, and short circuit protection
- Working with GE star product CMH lamp to provide competitive lamp/eHID system
- Rated voltage 220-240V, 50/60Hz
- Design life 50,000 hours

Applications:

- Retail
- Department store, Display
- Super market, Hotel

Certifications & Regulations:

- CQC, CE, CB
- Harmonic: IEC 61000-3-2, IEC

61000-3-3

- EMC: IEC 61547
- EMI: CISPR15
- Safety: IEC 61347-2-12, IEC 61347-1
- Housing meets UL94V0 flame retardant
- RoHS Compliance

Warning:

- Don't connect either output lead to neutral/common or earth/safety ground
- The ballast case temperature must be less than the indicated Tc temperature
- Neutral line is required to be flawlessly connected when use AC power

5. IElectronic Ballast for T5 LFL

5.1 High Performance T5 Electronic Ballast

Features:

- Pre-heated start ballasts increase lamp life significantly, especially when used in frequent on/off applications
- High power factor up to 0.98, low THD (<10%), ideally suitable for mega public buildings like airport, subway and railway stations
- 'Green' product, Energy Efficiency Index meets A2 class
- High frequency operation, Flicker-free to bring lighting comfort
- Working with T5 LFL to offer efficient and long life Linear lighting system solution
- Lamp EOL (End of Life) shutdown protection and re-lamp auto restarting
- Rated voltage 220~240V, 50/60Hz
- Design life 50,000 hours



Applications:

- Commercial Ceiling: Office, Hospital, Supermarket
- Industrial: Factory, Warehouse
- Public Building: Airport, Subway, Railway Station

Certifications & Regulations:

- CCC, CE, CB
- Harmonic: IEC 61000-3-2
- EMC: IEC 61547
- EMI: CISPR15
- Safety: IEC 61347-2-3, IEC 61347-1

5.2 Economic Electronic T5 Ballast

Features:

- Metal case design with good thermal performance and high reliability
- High power factor 0.98
- Lamp EOL (End of Life) shutdown protection and re-lamp auto restarting
- Working with T5 LFL to offer efficient and stable Linear lighting system solution
- High frequency operation, Flicker-free to bring lighting comfort
- Rated voltage 220~240Vac, 50/60Hz
- Design life 20,000 hours



Applications:

- Commercial Ceiling: Office, Hospital, Supermarket
- Industrial: Factory, Warehouse
- Public Building: Airport, Subway, Railway Station

Certifications & Regulations:

- CCC, CE, CB
- Harmonic: IEC 61000-3-2
- EMC: IEC 61547
- EMI: CISPR15
- Safety: IEC 61347-2-3, IEC 61347-1

6. Ballast for T8/T10 LFL

6.1 High Performance T8/T10 Electronic Ballast

Features:

- Pre-heated start ballasts increase lamp life significantly, especially when used in frequent on/off applications
- High power factor , low THD
- High frequency operation, Flicker-free to bring lighting comfort
- Working with T8/T10 LFL to offer efficient and long life Linear lighting system solution
- Lamp EOL (End of Life) shutdown protection and re-lamp auto restarting
- Rated voltage 220~240V, 50/60Hz
- Design life 30,000 hours

Applications:

- Commercial Ceiling: Office, Hospital, Supermarket
- Industrial: Factory, Warehouse
- Public Building: Airport, Subway, Railway Station

Certifications & Regulations:

- CCC, CE, CB
- Harmonic: IEC 61000-3-2
- EMC: IEC 61547
- EMI: CISPR15
- Safety: IEC 61347-2-3, IEC 61347-1



6.2 Economic T8/T10 Electronic Ballast

Features:

- Metal case design with good thermal performance and high reliability
- High power factor 0.98
- Lamp EOL (End of Life) shutdown protection and re-lamp auto restarting
- Working with T8/T10 LFL to offer efficient and stable Linear lighting system solution
- High frequency operation, Flicker-free to bring lighting comfort
- Rated voltage 220~240Vac, 50/60Hz
- Design life 20,000 hours

Applications:

- Commercial Ceiling: Office, Hospital, Supermarket

- Industrial: Factory, Warehouse
- Public Building: Airport, Subway, Railway Station

Certifications & Regulations:

- CCC, CE, CB
- Harmonic: IEC 61000-3-2
- EMC: IEC 61547
- EMI: CISPR15
- Safety: IEC 61347-2-3, IEC 61347-1



6.3 High Performance T8/T10 Electromagnetic Ballast

Features:

- Stable power output , excellent choice for high line voltage fluctuation areas
- Fireproof materials ensures safe and reliable operation
- Low Loss, efficient
- Vacuum saturation technology, keep noise level within 25db

- Rated voltage 220,50Hz
- Temp rise:Δt55°C, Tw130°C

Applications:

- Commercial Ceiling: Office, Hospital, Supermarket
- Industrial: Factory, Warehouse
- Public Building: Airport, Subway, Railway Station



Certifications & Regulations:

- CCC
- Harmonic: IEC 61000-3-2
- EMI: CISPR15
- Safety: IEC 61347-2-3, IEC 61347-1

6.4 Standard Performance T8/T10 Electromagnetic Ballast

Features:

- Fireproof materials ensures safe and reliable operation
- Stable power output , excellent choice for high line voltage fluctuation areas
- Vacuum saturation technology, keep noise level within 25db
- Rated voltage 220,50Hz
- Temp rise:Δt55°C, Tw130°C

Applications:

- Commercial Ceiling: Office, Hospital, Supermarket
- Industrial: Factory, Warehouse
- Public Building: Airport, Subway, Railway Station



Certifications & Regulations:

- CCC
- Harmonic: IEC 61000-3-2
- EMI: CISPR15
- Safety: IEC 61347-2-3, IEC 61347-1

6.5 Starter

Features:

- Voltage: 220-240V
- Lamp wattage: 4-65W/4-22W
- Starters: 20,000

Certifications & Regulations:

- VDE, UL, CE



7. Ballast for Plug-in CFL

7.1 Plug-in CFL Electromagnetic Ballast

Features:

- Stable power output , excellent choice for high line voltage fluctuation areas
- Low temperate rise, long life design
- Low Loss, efficient
- Working with plug-in CFL 2 pin
- Vacuum saturation technology,

keep noise level within 25db

- Fireproof materials ensures safe and reliable operation
- Compact size, easy for installation

Applications:

- Office, Hospital
- Shop, Hotel, Supermarket
- Airport, Subway, Railway Station



Certifications & Regulations:

- CCC
- Harmonic: IEC 61000-3-2
- EMI: CISPR15
- Safety: IEC 61347-2-3, IEC 61347-1

8. 12V Electronic Transformer

Features:

- Terminal connector to shorten operation lead time
- Brand new design of compact size, idea selection for delicate lighting fixture
- High efficiency, high reliability
- High power factor, low THD
- Design life 20,000 hours



Applications:

- Office, Hospital
- Shop, Hotel, Supermarket
- Airport, Subway, Railway Station

Certifications & Regulations:

- CE, CB
- Harmonic: IEC 61000-3-2
- EMC: IEC 61547
- EMI: CISPR15
- Safety: IEC 61347-1, IEC 61347-2-3

7.2 Plug-in CFL Electronic Ballast

Features:

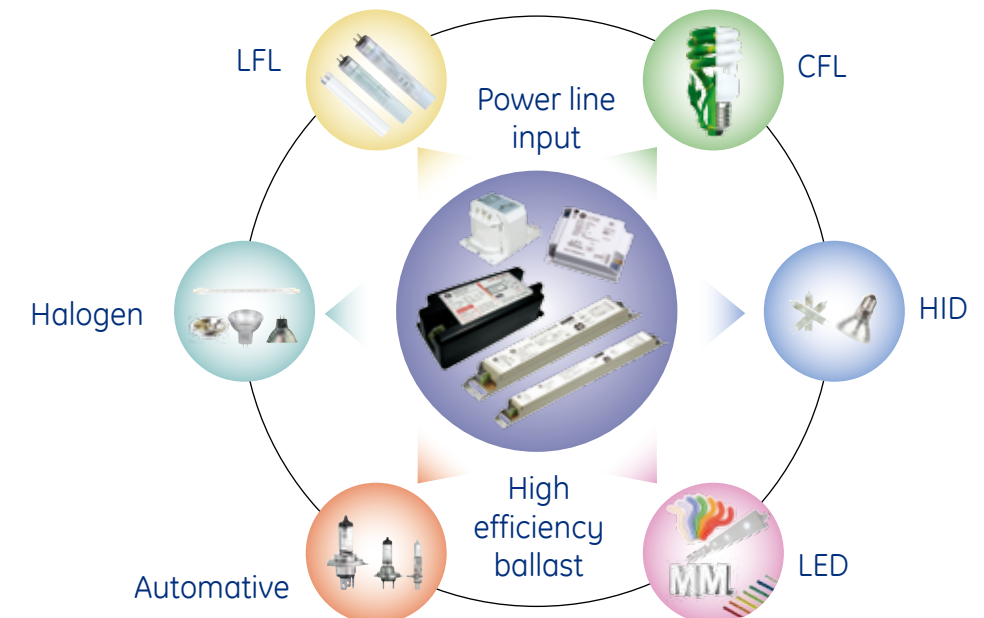
- High power factor 0.98
- Working with plug-in CFL to offer efficient and stable Linear lighting system solution
- High frequency operation, Flicker-free to bring lighting comfort
- Lamp EOL (End of Life) shutdown protection and re-lamp auto restarting
- Rated voltage 220~240V, 50/60Hz
- Design life 20,000 hours

Certifications & Regulations:

- CCC
- Harmonic: IEC 61000-3-2
- EMC: IEC 61547
- EMI: CISPR15
- Safety: IEC 61347-1, IEC 61347-2-3



Who needs a ballast?



Ballast

HID Electromagnetic Ballast	 HID Electromagnetic Ballast (with thermal protector) Voltage: 220-415V Frequency: 50/60Hz Page:	 HID Electromagnetic Ballast (without thermal protector) Voltage: 220-380V Frequency: 50/60Hz Page:	 CSI Electromagnetic Ballast Voltage: 220-240V Frequency: 50/60Hz Page:
	 HID Electromagnetic Ballast (Al Line) Voltage: 220-230V Frequency: 50Hz Page:		
HID Capacitor	 Capacitor with line Voltage: 250/540V Frequency: 50-60Hz Page:	 Capacitor with clamp Voltage: 250V Frequency: 50-60Hz Page:	 Ignitor Voltage: 220-240V Frequency: 50-60Hz Page:
	 Bi-Level for HPS Electromagnetic System Voltage: 220-240V Frequency: 50/60Hz Page:		
CWA Electromagnetic Ballast & Control Gear for HID Lamp	 CWA Electromagnetic Ballast Voltage: 220-240V Frequency: 50/60Hz Page:	 Capacitor with line Voltage: 540V Frequency: 50-60Hz Page:	 Capacitor with clamp Voltage: 540V Frequency: 50-60Hz Page:
	 Miniature eHID Lamp type: CMH Voltage: 220-240V Frequency: 50-60Hz Power Factor: 0.95 Page:	 Standard eHID Lamp type: CMH/QMH Voltage: 220-240V Frequency: 50-60Hz Power Factor: 0.95 Page:	 Economics eHID Lamp type: CMH/QMH Voltage: 220-240V Frequency: 50-60Hz Power Factor: 0.95 Page:

Electronic Ballast for T5 LFL	 High Performance T5 Electronic Ballast Lamp type: T5 Voltage: 220-240V Frequency: 50-60Hz Power Factor: 0.98 Page:	 Economic Electronic T5 Ballast Lamp type: T5 Voltage: 220-240V Frequency: 50-60Hz Power Factor: 0.98 Page:
	 High Performance T8/T10 Electronic Ballast Lamp type: T8/T10 Voltage: 220-240V Frequency: 50-60Hz Power Factor: 0.98 Page:	 Economic Electronic T8/T10 Ballast Lamp type: T8/T10 Voltage: 220-240V Frequency: 50-60Hz Power Factor: 0.98 Page:
Ballast for T8/T10 LFL	 Standard Performance T8/T10 Electromagnetic Ballast Lamp type: T8/T10 Voltage: 220V Frequency: 50Hz Power Factor: 0.33-0.51 Page:	 Starter Voltage: 220-240V Wattage: 4-22/4-66W Page:
	 Plug-in CFL Electromagnetic Ballast Lamp type: Plug-in CFL 4pin Voltage: 220V Frequency: 50Hz Power Factor: 0.35-0.48 Page:	 Plug-in CFL Electronic Ballast Lamp type: Plug-in CFL 4pin Voltage: 220V Frequency: 50-60Hz Power Factor: 0.98 Page:
12V Electronic Transformer	 12V Electronic Transformer Lamp type: Halogen Voltage: 220-240V Frequency: 50/60Hz Power Factor: 0.97 Page:	

Product Identification

Product code:
It is important to use this code when ordering to ensure that you receive the exact product you require

Description:
The ballast's identification code

Lamp current:
lamp working current

Cosφ≥0.9:
working with capacitor, the power factor (Cosφ)≥0.9
Circuit Current:
The ballast's input current

System Power:
System power consuming

Temp Rise:
The potential allowable maximum temperature rise under normal operation condition or rated voltage or maximum value of rated voltage range

Wiring Diagram:
The ballast's wiring diagram

Product Code	Description	Lamp current (A)	Start Current (A)	Cosφ≥0.9 Circuit Current(A)	Capacitor (μF)	Max Loss (W)	System Power (W)	Ignitor	Temp Rise (K)	Max Operating Temp (°C)	Wiring Diagram
70981C	MSB35/220V/50Hz/T	0.53	0.30	0.23	6	8.0	45	MSI/400	70	130	A
70982C	MSB50/220V/50Hz/T	0.76	0.39	0.30	8	12	60	MSI/400	70	130	A

Product Code	Description	Voltage/ Frequency	Lamp Type	Lamp Wattage	Dimensions (mm)						Carton Quantity (PCS)	Carton Weight (Kg)	Package Size (mm)
					A	B	C	D	E	F			
70981C	MSB35/220V/50Hz/T	220V/50Hz	MH	35W	108	86	60	36	52	R3	8	7.4	255*150*170
70982C	MSB50/220V/50Hz/T	220V/50Hz	HPS	50W	108	86	60	36	52	R3	8	8.5	255*150*170

Lamp Type:
The ballast's matching lamp type

Dimensions:
Ballast dimensions in mm

Carton Weight:
Gross weight of one carton

Voltage/Frequency:
The ballast's Rated input voltage and frequency

Lamp Wattage:
The rated wattage of ballast's matching lamp

Carton Quantity:
Number of product units packed in a case

Package Size:
Dimmension of carton in mm

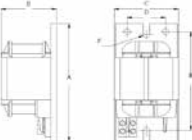
220V/50Hz



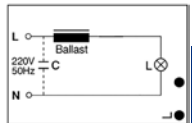
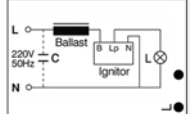
Product Code	Description	Lamp current (A)	Start Current (A)	Cosφ≥0.9 Circuit Current(A)	Capacitor (μF)	Max Loss (W)	System Power (W)	Ignitor	Temp Rise (K)	Max Operating Temp (°C)	Wiring Diagram
70981C	MSB35/220V/50Hz/T	0.53	0.30	0.23	6	8.0	45	MSI/400	70	130	A
70982C	MSB50/220V/50Hz/T	0.76	0.39	0.30	8	12	60	MSI/400	70	130	A
70983C	MSB70/220V/50Hz/T	0.98	0.56	0.43	12	14	86	MSI/400	70	130	A
70986C	MSB100/220V/50Hz/T	1.20	0.78	0.58	12	17	114	MSI/400	70	130	A
70987C	MSB150/220V/50Hz/T	1.80	1.12	0.86	20	21	170	MSI/400	70	130	A
70988C	MSB250/220V/50Hz/T	3.00	1.82	1.40	32	35	277	MSI/400	70	130	A
70989C	MSB400/220V/50Hz/T	4.60	3.08	2.20	50	54	435	MSI/400	70	130	A
70991C	MSB600/220V/50Hz/T	6.20	4.58	3.27	60	65	647	MSI/1000	80	130	A
70992C	MSB1000/220V/50Hz/T	10.30	6.46	5.38	100	98	1065	MSI/1000	80	130	A
25816C	MHB80/220V/50Hz/T	0.80	0.70	0.45	8	11	90	N/A	70	130	B
25817C	MHB125/220V/50Hz/T	1.15	1.10	0.71	10	18	140	N/A	70	130	B
25818C	MHB250/220V/50Hz/T	2.15/2.10	2.12	1.37	20	21	272	N/A for HPM	70	130	B
		2.15/2.10	2.12	1.37	20	21	272	MSI/400 for MH	70	130	A
70990C	MHB400/220V/50Hz/T	3.25	3.35	2.16	28	31	428	N/A for HPM	70	130	B
		3.25	3.35	2.16	28	31	428	MSI/400 for MH	70	130	A

Product Code	Description	Voltage/Frequency	Lamp Type	Lamp Wattage	Dimensions (mm)						Carton Quantity (PCS)	Carton Weight (Kg)	Package Size (mm)
					A	B	C	D	E	F			
70981C	MSB35/220V/50Hz/T	220V/50Hz	MH	35W	108	86	60	36	52	R3	8	7.4	255*150*170
70982C	MSB50/220V/50Hz/T	220V/50Hz	HPS	50W	108	86	60	36	52	R3	8	8.5	255*150*170
70983C	MSB70/220V/50Hz/T	220V/50Hz	HPS/MH	70W	108	86	60	36	52	R3	8	9.0	255*150*170
70986C	MSB100/220V/50Hz/T	220V/50Hz	HPS/MH	100W	117	86	60	36	52	R3	8	10.4	255*150*170
70987C	MSB150/220V/50Hz/T	220V/50Hz	HPS/MH	150W	126	104	75	45	64.5	R3	6	11.2	255*150*170
70988C	MSB250/220V/50Hz/T	220V/50Hz	HPS/MH	250W	150	128	75	45	64.5	R3	6	16.5	260*175*170
70989C	MSB400/220V/50Hz/T	220V/50Hz	HPS/MH	400W	165	143	96	61	82	R3	4	17.5	210*190*198
70991C	MSB600/220V/50Hz/T	220V/50Hz	HPS	600W	165	143	96	61	82	R3	4	18.5	210*190*198
70992C	MSB1000/220V/50Hz/T	220V/50Hz	HPS/MH	1000W	200	178	114	81	97	R3	2	18.0	260*220*115
25816C	MHB80/220V/50Hz/T	220V/50Hz	HPM	80W	108	86	60	36	52	R3	8	9.4	255*150*170
25817C	MHB125/220V/50Hz/T	220V/50Hz	HPM	125W	117	86	60	36	52	R3	8	10.9	255*150*170
25818C	MHB250/220V/50Hz/T	220V/50Hz	HPM/MH	250W	126	104	75	45	64	R3	6	12.0	255*150*170
70990C	MHB400/220V/50Hz/T	220V/50Hz	HPM/MH	400W	150	104	75	45	64	R3	6	17.0	260*175*170

Dimension (mm)



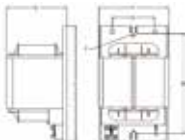
Wiring Diagram



220V/60Hz

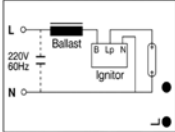
Product Code	Description	Lamp current (A)	Start Current (A)	Cosφ≥0.9 Circuit Current(A)	Capacitor (μF)	Max Loss (W)	System Power (W)	Ignitor	Temp Rise (K)	Max Operating Temp (°C)
78671	MSB35/220V/60Hz/T	0.53	0.30	0.23	6	8	45	MSI/400	70	170
28810	MSB70/220V/60Hz/T	0.98	0.60	0.43	12	14	86	MSI/400	70	130
78672	MSB100/220V/60Hz/T	1.20	0.87	0.58	12	17	114	MSI/400	70	170
28812	MSB150/220V/60Hz/T	1.80	1.12	0.86	20	21	170	MSI/400	70	130
28814	MSB250/220V/60Hz/T	3.00	1.88	1.39	32	35	276	MSI/400	70	130
78673	MSB400/220V/60Hz/T	4.60	2.97	2.20	50	54	436	MSI/400	70	170
99720	MSB1000/220V/60Hz/T	10.30	6.73	5.38	100	98	1065	MSI/1000	80	130

Dimension (mm)

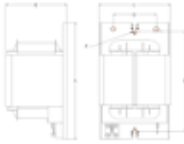


Ballast

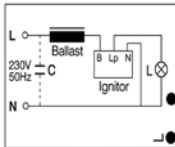
Wiring Diagram



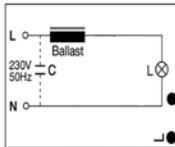
Dimension (mm)



Wiring Diagram



A



B

Product Code	Description	Voltage/ Frequency	Lamp Type	Lamp Wattage	Dimensions (mm)						Carton Quantity (PCS)	Carton Weight (Kg)	Package Size (mm)
					A	B	C	D	E	F			
78671	MSB35/220V/60Hz/T	220V/60Hz	MH	35W	108	86	60	36	52	R3	8	7	255*150*170
28810	MSB70/220V/60Hz/T	220V/60Hz	HPS/MH	70W	108	86	60	36	52	R3	8	8.6	255*150*170
78672	MSB100/220V/60Hz/T	220V/60Hz	HPS/MH	100W	117	86	60	36	52	R3	8	10.8	255*150*170
28812	MSB150/220V/60Hz/T	220V/60Hz	HPS/MH	150W	126	104	75	45	64.5	R3	6	11.2	255*150*170
28814	MSB250/220V/60Hz/T	220V/60Hz	HPS/MH	250W	150	128	75	45	64.5	R3	6	15.6	260*175*170
78673	MSB400/220V/60Hz/T	220V/60Hz	HPS/MH	400W	165	143	96	61	82	R3	4	17	210*190*198
99720	MSB1000/220V/60Hz/T	220V/60Hz	HPS/MH	1000W	200	178	114	81	97	R3	2	17.6	260*220*115

230V/50Hz

Product Code	Description	Lamp current (A)	Start Current (A)	Cosφ≥0.9 Circuit Current(A)	Capacitor (μF)	Max Loss (W)	System Power (W)	Ignitor	Temp Rise (K)	Max Operating Temp (°C)	Wiring Diagram
28789	MSB35/230V/50Hz/T	0.53	0.28	0.23	6	9	45	MSI/400	70	130	A
95859T	MSB50/230V/50Hz/T	0.76	0.41	0.30	8	13	60	MSI/400	70	130	A
28790	MSB70/230V/50Hz/T	0.98	0.58	0.43	12	15	86	MSI/400	70	130	A
28796	MSB100/230V/50Hz/T	1.2	0.78	0.58	12	18	114	MSI/400	70	130	A
28797	MSB150/230V/50Hz/T	1.8	1.08	0.86	20	22	170	MSI/400	70	130	A
28798	MSB250/230V/50Hz/T	3	1.82	1.40	32	37	278	MSI/400	70	130	A
95864C	MSB400/230V/50Hz/T	4.6	2.97	2.20	50	45	436	MSI/400	70	130	A
95866T	MSB600/230V/50Hz/T	6.2	4.40	3.26	60	69	645	MSI/1000	80	130	A
99721	MSB1000/230V/50Hz/T	10.3	6.46	5.38	100	104	1065	MSI/1000 for HPS	80	130	A
		9.5	6.46	5.38	100	104	1065	MSI/1000 for MH	80	130	A
25819T	MHB80/230V/50Hz/T	0.8	0.68	0.45	8	12	90	N/A	70	130	B
25822T	MHB125/230V/50Hz/T	1.15	1.07	0.71	10	19	140	N/A	70	130	B
25823T	MHB250/230V/50Hz/T	2.15	2.04	1.36	20	23	270	N/A for HPM	70	130	B
		2.1	2.04	1.36	20	23	270	MSI/400 for MH	70	130	A
95865C	MHB400/230V/50Hz/T	3.25	3.24	2.16	25	33	428	N/A for HPM	70	130	B
		3.25	3.24	2.16	25	33	428	MSI/400 for MH	70	130	A

Product Code	Description	Voltage/ Frequency	Lamp Type	Lamp Wattage	Dimensions (mm)						Carton Quantity (PCS)	Carton Weight (Kg)	Package Size (mm)
					A	B	C	D	E	F			
28789	MSB35/230V/50Hz/T	230V/50Hz	MH	35W	108	86	60	36	52	R3	8	7.5	250*150*170
95859T	MSB50/230V/50Hz/T	230V/50Hz	HPS	50W	108	86	60	36	52	R3	8	8.7	250*150*170
28790	MSB70/230V/50Hz/T	230V/50Hz	HPS/MH	70W	108	86	60	36	52	R3	8	9.0	250*150*170
28796	MSB100/230V/50Hz/T	230V/50Hz	HPS/MH	100W	117	86	60	36	52	R3	8	10.7	250*150*170
28797	MSB150/230V/50Hz/T	230V/50Hz	HPS/MH	150W	126	104	75	45	64.5	R3	6	11	250*150*170
28798	MSB250/230V/50Hz/T	230V/50Hz	HPS/MH	250W	150	128	75	45	64.5	R3	6	16.8	260*175*170
95864C	MSB400/230V/50Hz/T	230V/50Hz	HPS/MH	400W	165	143	96	61	82	R3	4	17.5	210*190*198
95866T	MSB600/230V/50Hz/T	230V/50Hz	HPS	600W	165	143	96	61	82	R3	4	18.5	210*190*198
99721	MSB1000/230V/50Hz/T	230V/50Hz	HPS/MH	1000W	200	178	114	81	97	R3	2	19.3	260*220*115
25819T	MHB80/230V/50Hz/T	230V/50Hz	HPM	80W	108	86	60	36	52	R3	8	9	255*150*170
25822T	MHB125/230V/50Hz/T	230V/50Hz	HPM	125W	117	86	60	36	52	R3	8	10.9	255*150*170
25823T	MHB250/230V/50Hz/T	230V/50Hz	HPM/MH	250W	126	104	75	45	64	R3	6	13.2	255*150*170
95865C	MHB400/230V/50Hz/T	230V/50Hz	HPM/MH	400W	155	133	75	45	64	R3	6	19.2	260*175*170

230V/60Hz

Product Code	Description	Lamp current (A)	Start Current (A)	Cosφ≥0.9 Circuit Current(A)	Capacitor (μF)	Max Loss (W)	System Power (W)	Ignitor	Temp Rise (K)	Max Operating Temp (°C)
28815	MSB70/230V/60Hz/T	0.98	0.57	0.42	12	15	86	MSI/400	70	130
28817	MSB150/230V/60Hz/T	1.80	1.11	0.82	20	22	170	MSI/400	70	130
28818	MSB250/230V/60Hz/T	3.00	1.88	1.34	32	37	278	MSI/400	70	130

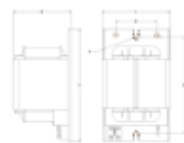
Product Code	Description	Voltage/ Frequency	Lamp Type	Lamp Wattage	Dimensions (mm)						Carton Quantity (PCS)	Carton Weight (Kg)	Package Size (mm)
					A	B	C	D	E	F			
28815	MSB70/230V/60Hz/T	230V/60Hz	HPS/MH	70W	108	86	60	36	52	R3	8	9	255*150*170
28817	MSB150/230V/60Hz/T	230V/60Hz	HPS/MH	150W	126	104	75	45	64.5	R3	6	11.2	255*150*170
28818	MSB250/230V/60Hz/T	230V/60Hz	HPS/MH	250W	150	128	75	45	64.5	R3	6	15.8	260*175*170

240V/50Hz

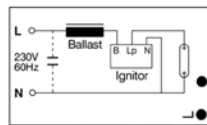
Product Code	Description	Lamp current (A)	Start Current (A)	Cosφ≥0.9 Circuit Current(A)	Capacitor (μF)	Max Loss (W)	System Power (W)	Ignitor	Temp Rise (K)	Max Operating Temp (°C)	Wiring Diagram
28800	MSB35/240V/50Hz/T	0.53	0.28	0.21	6	10	45	MSI/400	70	130	A
28801	MSB70/240V/50Hz/T	0.98	0.56	0.40	12	16	86	MSI/400	70	130	A
28807	MSB100/240V/50Hz/T	1.20	0.77	0.53	12	19	114	MSI/400	70	130	A
28808	MSB150/240V/50Hz/T	1.80	1.03	0.79	20	23	171	MSI/400	70	130	A
28809	MSB250/240V/50Hz/T	3.00	1.68	1.29	32	39	278	MSI/400	70	130	A
95874C	MSB400/240V/50Hz/T	4.60	2.83	2.02	50	60	436	MSI/400	70	130	A
99722	MSB1000/240V/50Hz/T	10.30	6.16	4.93	100	111	1065	MSI/400	80	130	A
95875C	MHB400/240V/50Hz/T	3.25	3.17	1.98	25	36	428	N/A for HPM	70	130	B
		3.25	3.17	1.98	25	36	428	MSI/400 for MH	70	130	A

Product Code	Description	Voltage/ Frequency	Lamp Type	Lamp Wattage	Dimensions (mm)						Carton Quantity (PCS)	Carton Weight (Kg)	Package Size (mm)
					A	B	C	D	E	F			
28800	MSB35/240V/50Hz/T	240V/50Hz	MH	35W	108	86	60	36	52	R3	8	7.5	255*150*170
28801	MSB70/240V/50Hz/T	240V/50Hz	HPS/MH	70W	108	86	60	36	52	R3	8	9.4	255*150*170
28807	MSB100/240V/50Hz/T	240V/50Hz	HPS/MH	100W	117	86	60	36	52	R3	8	10.8	255*150*170
28808	MSB150/240V/50Hz/T	240V/50Hz	HPS/MH	150W	126	104	75	45	64.5	R3	6	11.2	255*150*170
28809	MSB250/240V/50Hz/T	240V/50Hz	HPS/MH	250W	150	128	75	45	64.5	R3	6	18.3	260*175*170
95874C	MSB400/240V/50Hz/T	240V/50Hz	HPS/MH	400W	165	143	96	61	82	R3	4	17.7	210*190*198
99722	MSB1000/240V/50Hz/T	240V/50Hz	HPS/MH	1000W	220	198	114	81	97	R3	2	21.4	260*240*115
95875C	MHB400/240V/50Hz/T	240V/50Hz	HPM/MH	400W	160	138	75	45	64	R3	6	19.2	260*175*170

Dimension (mm)



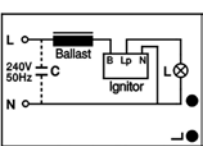
Wiring Diagram



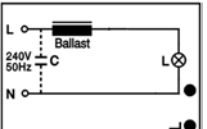
Dimension (mm)



Wiring Diagram



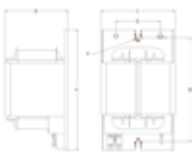
A



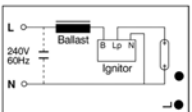
B

Ballast

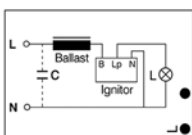
Dimension (mm)



Wiring Diagram



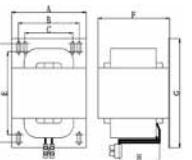
Wiring Diagram



Dimension (mm)



A



B

240V/60Hz

Product Code	Description	Lamp current (A)	Cosφ≥0.9			Max Loss (W)	System Power (W)	Ignitor	Temp Rise (K)	Max Operating Temp (°C)
			Start Current (A)	Circuit Current(A)	Capacitor (μF)					
28819	MSB70/240V/60Hz/T	0.98	0.52	0.40	12	16	86	MSI/400	70	130
28821	MSB150/240V/60Hz/T	1.80	1.08	0.80	20	23	173	MSI/400	70	130
28823	MSB250/240V/60Hz/T	3.00	1.68	1.29	32	39	278	MSI/400	70	130

Product Code	Description	Voltage/ Frequency	Lamp Type	Lamp Wattage	Dimensions (mm)						Carton Quantity (PCS)	Carton Weight (Kg)	Package Size (mm)
					A	B	C	D	E	F			
28819	MSB70/240V/60Hz/T	240V/60Hz	HPS/MH	70W	108	86	60	36	52	R3	8	8.7	255*150*170
28821	MSB150/240V/60Hz/T	240V/60Hz	HPS/MH	150W	126	104	75	45	64.5	R3	6	10.9	255*150*170
28823	MSB250/240V/60Hz/T	240V/60Hz	HPS/MH	250W	150	128	75	45	64.5	R3	6	16.3	260*175*170

(others)

Product Code	Description	Lamp current (A)	Start Current (A)	Cosφ≥0.9 Circuit Current(A)	Capacitor (μF)	Max Loss (W)	System Power (W)	Ignitor	Temp Rise (K)	Max Operating Temp (°C)
99719	MHB2000/380V/50Hz/T	11.3	8.49	6.29	60	164	2150	MSI/2000	85	130
99723	MHB2000/380V/60Hz/T	11.3	7.98	6.14	60	164	2100	MSI/2000	85	130
99724	MHB2000/400V/50Hz/T	11.3	8.75	5.83	60	164	2100	MSI/2000	80	130
99725	MHB2000/415V/50Hz/T	11.3	8.43	5.62	60	185	2100	MSI/2000	80	130

Product Code	Description	Voltage/ Frequency	Lamp Type	Lamp Wattage	Picture	Dimensions (mm)								Carton Quantity (PCS)	Carton Weight (Kg)	Package Size (mm)
						A	B	C	D	E	F	G	H			
99719	MHB2000/380V/50Hz/T	380V/50Hz	SPL	2000W	A	235	213	127	94	112	R3	-	-	1	15.7	255*150*135
99723	MHB2000/380V/60Hz/T	380V/60Hz	SPL	2000W	A	235	213	127	94	112	R3	-	-	1	15.8	255*150*135
99724	MHB2000/400V/50Hz/T	400V/50Hz	SPL	2000W	B	153	125	98	176	148	147	195	R4	1	17.5	260*175*170
99725	MHB2000/415V/50Hz/T	415V/50Hz	SPL	2000W	B	153	125	98	176	148	147	195	R4	1	18.9	260*175*170

CB

220V/50Hz

Product Code	Description	Lamp current (A)	Cosφ≥0.9			Max Loss (W)	System Power (W)	Ignitor	Temp Rise (K)	Wiring Diagram
			Start Current (A)	Circuit Current(A)	Capacitor (μF)					
70981	MSB35/220V/50Hz	0.53	0.30	0.23	6	8	45	MSI/400	70	A
70982	MSB50/220V/50Hz	0.76	0.39	0.30	8	12	60	MSI/400	70	A
70983	MSB70/220V/50Hz	0.98	0.56	0.43	12	14	86	MSI/400	70	A
70986	MSB100/220V/50Hz	1.2	0.78	0.58	12	17	114	MSI/400	70	A
70987	MSB150/220V/50Hz	1.8	1.12	0.86	20	21	170	MSI/400	70	A
70988	MSB250/220V/50Hz	3	1.82	1.40	32	35	277	MSI/400	70	A
70989	MSB400/220V/50Hz	4.6	3.08	2.20	50	54	435	MSI/400	70	A
70991	MSB600/220V/50Hz	6.2	4.58	3.27	60	65	647	MSI/1000	80	A
70992	MSB1000/220V/50Hz	10.3	6.46	5.38	100	98	1065	MSI/1000	80	A
25816	MHB80/220V/50Hz	0.8	0.70	0.45	8	11	90	N/A	70	B
25817	MHB125/220V/50Hz	1.25	1.10	0.71	10	18	140	N/A	70	B
25818	MHB250/220V/50Hz	2.15	2.12	1.37	18	21	272	N/A for HPM	70	B
		2.1	2.12	1.37	18	21	272	MSI/400 for MH	70	A
70990	MHB400/220V/50Hz	3.25	3.35	2.16	25	31	428	N/A for HPM	70	B
		3.25	3.35	216.00	25	31	428	MSI/400 for MH	70	A

Product Code	Description	Voltage/ Frequency	Lamp Type	Lamp Wattage	Dimensions (mm)						Carton Quantity (PCS)	Carton Weight (Kg)	Package Size (mm)
					A	B	C	D	E	F			
70981	MSB35/220V/50Hz	220V/50Hz	MH	35W	108	86	60	36	52	R3	8	7.4	255*150*170
70982	MSB50/220V/50Hz	220V/50Hz	HPS	50W	108	86	60	36	52	R3	8	8.5	255*150*170
70983	MSB70/220V/50Hz	220V/50Hz	HPS/MH	70W	108	86	60	36	52	R3	8	9	255*150*170
70986	MSB100/220V/50Hz	220V/50Hz	HPS/MH	100W	117	86	60	36	52	R3	8	10.4	255*150*170
70987	MSB150/220V/50Hz	220V/50Hz	HPS/MH	150W	126	104	75	45	64.5	R3	6	11.2	255*150*170
70988	MSB250/220V/50Hz	220V/50Hz	HPS/MH	250W	150	128	75	45	64.5	R3	6	16.5	260*175*170
70989	MSB400/220V/50Hz	220V/50Hz	HPS/MH	400W	165	143	96	61	82	R3	4	17.5	210*190*198
70991	MSB600/220V/50Hz	220V/50Hz	HPS	600W	165	143	96	61	82	R3	4	18.5	210*190*198
70992	MSB1000/220V/50Hz	220V/50Hz	HPS/MH	1000W	200	178	114	81	97	R3	2	18	260*220*115
25816	MHB80/220V/50Hz	220V/50Hz	HPM	80W	108	86	60	36	52	R3	8	9.4	255*150*170
25817	MHB125/220V/50Hz	220V/50Hz	HPM	125W	117	86	60	36	52	R3	8	10.9	255*150*170
25818	MHB250/220V/50Hz	220V/50Hz	HPM/MH	250W	126	104	75	45	64	R3	6	12	255*150*170
70990	MHB400/220V/50Hz	220V/50Hz	HPM/MH	400W	150	104	75	45	64	R3	6	17	260*175*170

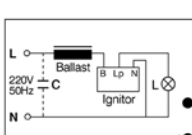
220V/60Hz

Product Code	Description	Lamp current (A)	Cosφ≥0.9			Max Loss (W)	System Power (W)	Ignitor	Temp Rise (K)	Wiring Diagram
			Start Current (A)	Circuit Current(A)	Capacitor (μF)					
78669	MSB35/220V/60Hz	0.53	0.30	0.23	6	8	45	MSI/400	70	A
11212	MSB70/220V/60Hz	0.98	0.60	0.43	12	14	86	MSI/400	70	A
78670	MSB100/220V/60Hz	1.20	0.87	0.58	12	17	114	MSI/400	70	A
11215	MSB150/220V/60Hz	1.80	1.12	0.86	20	21	170	MSI/400	70	A
11221	MSB250/220V/60Hz	3.00	1.88	1.39	32	35	276	MSI/400	70	A
11222	MSB400/220V/60Hz	4.60	2.97	2.20	50	54	436	MSI/400	70	A
25827	MHB400/220V/60Hz	3.25	3.35	2.16	25	31	427	N/A for HPM	70	B
		3.25	3.35	2.16	25	31	427	MSI/400 for MH	70	A

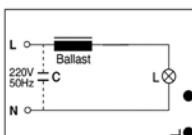
Dimension (mm)



Wiring Diagram



A



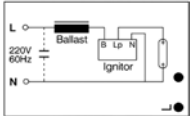
B

Dimension (mm)

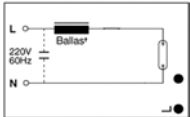


Ballast

Wiring Diagram



A



B

Product Code	Description	Voltage/ Frequency	Lamp Type	Lamp Wattage	Dimensions (mm)						Carton Quantity (PCS)	Carton Weight (Kg)	Package Size (mm)
					A	B	C	D	E	F			
78669	MSB35/220V/60Hz	220V/60Hz	MH	35W	108	86	60	36	52	R3	8	7	255*150*170
11212	MSB70/220V/60Hz	220V/60Hz	HPS/MH	70W	108	86	60	36	52	R3	8	8.6	255*150*170
78670	MSB100/220V/60Hz	220V/60Hz	HPS/MH	100W	108	86	60	36	52	R3	8	10.8	255*150*170
11215	MSB150/220V/60Hz	220V/60Hz	HPS/MH	150W	126	104	75	45	64.5	R3	6	11.2	255*150*170
11221	MSB250/220V/60Hz	220V/60Hz	HPS/MH	250W	150	128	75	45	64.5	R3	6	15.6	260*175*170
11222	MSB400/220V/60Hz	220V/60Hz	HPS/MH	400W	165	143	96	61	82	R3	4	17	210*190*198
25827	MHB400/220V/60Hz	220V/60Hz	HPM/MH	400W	150	128	75	45	64	R3	6	17	260*175*170

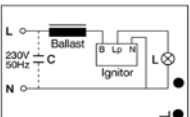
230V/50Hz

Product Code	Description	Lamp current (A)	Start Current (A)	Cosφ≥0.9		Max Loss (W)	System Power (W)	Ignitor	Temp Rise (K)	Wiring Diagram
				Circuit Current(A)	Capacitor (μF)					
95858	MSB35/230V/50Hz	0.53	0.28	0.23	6	9	45	MSI/400	70	A
95859	MSB50/230V/50Hz	0.76	0.41	0.30	8	13	60	MSI/400	70	A
95860	MSB70/230V/50Hz	0.98	0.58	0.43	12	15	86	MSI/400	70	A
95861	MSB100/230V/50Hz	1.2	0.78	0.58	12	18	114	MSI/400	70	A
95862	MSB150/230V/50Hz	1.8	1.08	0.86	20	22	170	MSI/400	70	A
95863	MSB250/230V/50Hz	3	1.82	1.40	32	37	278	MSI/400	70	A
95864	MSB400/230V/50Hz	4.6	2.97	2.20	50	45	436	MSI/400	70	A
95866	MSB600/230V/50Hz	6.2	4.40	3.26	60	69	645	MSI/1000	80	A
95867	MSB1000/230V/50Hz	10.3	6.46	5.38	100	104	1065	MSI/1000 for HPS	80	A
		9.5	6.46	5.38	100	104	1065	MSI/1000 for MH	80	A
25819	MHB80/230V/50Hz	1.15	0.68	0.45	8	12	90	N/A	70	B
25822	MHB125/230V/50Hz	1.25	1.07	0.71	10	19	140	N/A	70	B
25823	MHB250/230V/50Hz	2.15	2.04	1.36	20	23	270	N/A for HPM	70	B
		2.15	2.04	1.36	20	23	270	MSI/400 for MH	70	A
95865	MHB400/230V/50Hz	3.25	3.24	2.16	25	33	428	N/A for HPM	70	B
		3.25	3.24	2.16	25	33	428	MSI/400 for MH	70	A

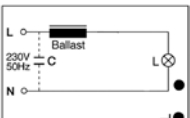
Dimension (mm)



Wiring Diagram



A



B

Product Code	Description	Voltage/ Frequency	Lamp Type	Lamp Wattage	Dimensions (mm)						Carton Quantity (PCS)	Carton Weight (Kg)	Package Size (mm)
					A	B	C	D	E	F			
95858	MSB35/230V/50Hz	230V/50Hz	MH	35W	108	86	60	36	52	R3	8	7.5	250*150*170
95859	MSB50/230V/50Hz	230V/50Hz	HPS	50W	108	86	60	36	52	R3	8	8.7	250*150*170
95860	MSB70/230V/50Hz	230V/50Hz	HPS/MH	70W	108	86	60	36	52	R3	8	9.0	250*150*170
95861	MSB100/230V/50Hz	230V/50Hz	HPS/MH	100W	117	86	60	36	52	R3	8	10.7	250*150*170
95862	MSB150/230V/50Hz	230V/50Hz	HPS/MH	150W	126	104	75	45	64.5	R3	6	11	250*150*170
95863	MSB250/230V/50Hz	230V/50Hz	HPS/MH	250W	150	128	75	45	64.5	R3	6	16.8	260*175*170
95864	MSB400/230V/50Hz	230V/50Hz	HPS/MH	400W	165	143	96	61	82	R3	4	17.5	210*190*198
95866	MSB600/230V/50Hz	230V/50Hz	HPS	600W	165	143	96	61	82	R3	4	18.5	210*190*198
95867	MSB1000/230V/50Hz	230V/50Hz	HPS/MH	1000W	200	178	114	81	97	R3	2	19.3	260*220*115
25819	MHB80/230V/50Hz	230V/50Hz	HPM	80W	108	86	60	36	52	R3	8	9	255*150*170
25822	MHB125/230V/50Hz	230V/50Hz	HPM	125W	117	86	60	36	52	R3	8	10.9	255*150*170
25823	MHB250/230V/50Hz	230V/50Hz	HPM/MH	250W	126	104	75	45	64	R3	6	13.2	255*150*170
95865	MHB400/230V/50Hz	230V/50Hz	HPM/MH	400W	155	133	75	45	64	R3	6	19.2	260*175*170

230V/60Hz

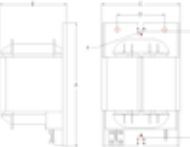
Product Code	Description	Lamp current (A)	Start Current (A)	Cosφ≥0.9		Max Loss (W)	System Power (W)	Ignitor	Temp Rise (K)	Wiring Diagram
				Circuit Current(A)	Capacitor (μF)					
11049	MSB70/230V/60Hz	0.98	0.567	0.42	12	15	86	MSI/400	70	A
11050	MSB150/230V/60Hz	1.80	1.107	0.82	20	22	170	MSI/400	70	A
11053	MSB250/230V/60Hz	3.00	1.876	1.34	32	37	278	MSI/400	70	A
11223	MSB400/230V/60Hz	4.60	3.08	2.2	50	57	435	MSI/400	70	A
25828	MHB400/230V/60Hz	3.25	3.348	2.16	25	33	428	N/A for HPM	70	B
		3.25	3.348	2.16	25	33	428	MSI/400 for MH	70	A

Product Code	Description	Voltage/ Frequency	Lamp Type	Lamp Wattage	Dimensions (mm)						Carton Quantity (PCS)	Carton Weight (Kg)	Package Size (mm)
					A	B	C	D	E	F			
11049	MSB70/230V/60Hz	230V/60Hz	HPS/MH	70W	108	86	60	36	52	R3	8	8.6	255*150*170
11050	MSB150/230V/60Hz	230V/60Hz	HPS/MH	150W	126	104	75	45	64.5	R3	6	11.2	255*150*170
11053	MSB250/230V/60Hz	230V/60Hz	HPS/MH	250W	150	128	75	45	64.5	R3	6	15.6	260*175*170
11223	MSB400/230V/60Hz	230V/60Hz	HPS/MH	400W	165	143	96	61	82	R3	4	17	210*190*198
25828	MHB400/230V/60Hz	230V/60Hz	HPM/MH	400W	150	128	75	45	64	R3	6	19.2	260*175*170

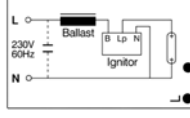
240V/50Hz

Product Code	Description	Lamp current (A)	Start Current (A)	Cosφ≥0.9		Max Loss (W)	System Power (W)	Ignitor	Temp Rise (K)	Wiring Diagram
				Circuit Current(A)	Capacitor (μF)					
95868	MSB35/240V/50Hz	0.53	0.30	0.23	6	9	45	MSI/400	70	A
95869	MSB50/240V/50Hz	0.76	0.39	0.30	8	13	60	MSI/400	70	A
95870	MSB70/240V/50Hz	0.98	0.56	0.43	12	16	86	MSI/400	70	A
95871	MSB100/240V/50Hz	1.20	0.78	0.58	12	19	114	MSI/400	70	A
95872	MSB150/240V/50Hz	1.80	1.12	0.86	20	23	171	MSI/400	70	A
95873	MSB250/240V/50Hz	3.00	1.82	1.40	32	39	278	MSI/400	70	A
95874	MSB400/240V/50Hz	4.60	3.08	2.20	50	60	436	MSI/400	70	A
95876	MSB600/240V/50Hz	6.20	4.58	3.27	60	73	647	MSI/1000	80	A
95877	MSB1000/240V/50Hz	10.30	6.46	5.38	100	111	1065	MSI/1000 for HPS	80	A
		9.50	6.46	5.38	100	111	1065	MSI/1000 for MH	80	A
25824	MHB80/240V/50Hz	0.80	0.70	0.45	8	13	90	N/A	70	B
25825	MHB125/240V/50Hz	1.25	1.10	0.71	10	20	140	N/A	70	B
25826	MHB250/240V/50Hz	2.15	2.12	1.37	18	25	272	N/A for HPM	70	B
		2.10	2.12	1.37	18	25	272	MSI/400 for MH	70	A
95875	MHB400/240V/50Hz	3.25	3.35	2.16	25	36	428	N/A for HPM	70	B
		3.25	3.35	2.16	25	36	428	MSI/400 for MH	70	A

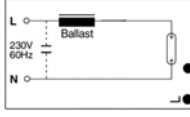
Dimension (mm)



Wiring Diagram



A

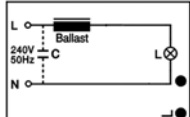


B

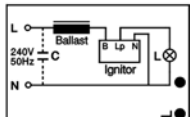
Dimension (mm)



Wiring Diagram



A



B

Ballast

Product Code	Description	Voltage/ Frequency	Lamp Type	Lamp Wattage	Dimensions (mm)						Carton Quantity (PCS)	Carton Weight (Kg)	Package Size (mm)
					A	B	C	D	E	F			
95868	MSB35/240V/50Hz	240V/50Hz	MH	35W	108	86	60	36	52	R3	8	7.5	255*150*170
95869	MSB50/240V/50Hz	240V/50Hz	HPS	50W	108	86	60	36	52	R3	8	8.5	255*150*170
95870	MSB70/240V/50Hz	240V/50Hz	HPS/MH	70W	108	86	60	36	52	R3	8	9.4	255*150*170
95871	MSB100/240V/50Hz	240V/50Hz	HPS/MH	100W	117	86	60	36	52	R3	8	10.8	255*150*170
95872	MSB150/240V/50Hz	240V/50Hz	HPS/MH	150W	126	104	75	45	64.5	R3	6	11.2	255*150*170
95873	MSB250/240V/50Hz	240V/50Hz	HPS/MH	250W	150	128	75	45	64.5	R3	6	18.3	260*175*170
95874	MSB400/240V/50Hz	240V/50Hz	HPS/MH	400W	165	143	96	61	82	R3	4	17.7	210*190*198
95876	MSB600/240V/50Hz	240V/50Hz	HPS	600W	165	143	96	61	82	R3	4	18.5	210*190*198
95877	MSB1000/240V/50Hz	240V/50Hz	HPS/MH	1000W	200	198	114	81	97	R3	2	21.4	260*240*115
25824	MHB80/240V/50Hz	240V/50Hz	HPM	80W	108	86	60	36	52	R3	8	9.4	255*150*170
25825	MHB125/240V/50Hz	240V/50Hz	HPM	125W	117	86	60	36	52	R3	8	10.9	255*150*170
25826	MHB250/240V/50Hz	240V/50Hz	HPM/MH	250W	126	104	75	45	64	R3	6	12	255*150*170
95875	MHB400/240V/50Hz	240V/50Hz	HPM/MH	400W	160	138	75	45	64	R3	6	17	260*175*170

240V/60Hz

Product Code	Description	Lamp current (A)	Start Current (A)	Cosφ≥0.9 Circuit Current(A)	Capacitor (μF)	Max Loss (W)	System Power (W)	Ignitor	Temp Rise (K)
11224	MSB70/240V/60Hz	0.98	0.52	0.40	12	14	86	MSI/400	70
11225	MSB150/240V/60Hz	1.80	1.08	0.80	20	23	173	MSI/400	70
11226	MSB250/240V/60Hz	3.00	1.68	1.29	32	39	278	MSI/400	70
11227	MSB400/240V/60Hz	4.60	3.08	2.20	50	60	435	MSI/400	70
25839	MHB400/240V/60Hz	3.25	3.35	2.16	25	36	428	MSI/400	70

Product Code	Description	Voltage/ Frequency	Lamp Type	Lamp Wattage	Dimensions (mm)						Carton Quantity (PCS)	Carton Weight (Kg)	Package Size (mm)
					A	B	C	D	E	F			
11224	MSB70/240V/60Hz	240V/60Hz	HPS/MH	70W	108	86	60	36	52	R3	8	8.7	255*150*170
11225	MSB150/240V/60Hz	240V/60Hz	HPS/MH	150W	126	104	75	45	64.5	R3	6	10.9	255*150*170
11226	MSB250/240V/60Hz	240V/60Hz	HPS/MH	250W	150	128	75	45	64.5	R3	6	16.3	260*175*170
11227	MSB400/240V/60Hz	240V/60Hz	HPS/MH	400W	165	143	96	61	82	R3	4	17.5	210*190*198
25839	MHB400/240V/60Hz	240V/60Hz	HPS/MH	400W	150	128	75	45	64	R3	6	17	260*175*170

380V/50Hz

Product Code	Description	Lamp current (A)	Start Current (A)	Cosφ≥0.9 Circuit Current(A)	Capacitor (μF)	Max Loss (W)	System Power (W)	Ignitor	Temp Rise (K)
89192	MHB1000/380V/50Hz	4.2	4.65	3.10	21	60	1050	MSI/2000	80
89191	MHB1500/380V/50Hz	6.7	7.35	4.90	35	86	1680	MSI/2000	80
89190	MHB2000/380V/50Hz	10.3	9.15	6.10	60	130	2100	MSI/2000	80

Product Code	Description	Voltage/ Frequency	Lamp Type	Lamp Wattage	Dimensions (mm)						Carton Quantity (PCS)	Carton Weight (Kg)	Package Size (mm)
					A	B	C	D	E	F			
89192	MHB1000/380V/50Hz	380V/50Hz	SPL	1000W	185	163	114	81	97	R3	2	25.4	285*220*135
89191	MHB1500/380V/50Hz	380V/50Hz	SPL	1500W	200	178	127	94	112	R3	2	17.2	260*220*115
89190	MHB2000/380V/50Hz	380V/50Hz	SPL	2000W	235	213	127	94	112	R3	1	15.1	255*150*135

CSI Electromagnetic Ballast

Product Code	Description	Lamp current (A)	Start Current (A)	Cosφ≥0.9 Circuit Current(A)	Capacitor (μF)	Max Loss (W)	System Power (W)	Ignitor	Temp Rise (K)	Max Operating Temp (°C)
99664	CSI 1000/220V/50Hz	15	6.3	5.5	160	119	1090	MSI/1000/CSI	80	CCC, CB
89186	CSI 1000/220V/60Hz	15	6.2	5.4	160	119	1090	MSI/1000/CSI	80	CB
89187	CSI 1000/230V/50Hz	15	6.0	5.2	160	126	1090	MSI/1000/CSI	80	CCC, CB
89188	CSI 1000/230V/60Hz	15	6.0	5.2	160	126	1090	MSI/1000/CSI	80	CB
89189	CSI 1000/240V/50Hz	15	5.8	5.0	160	132	1090	MSI/1000/CSI	80	CCC, CB

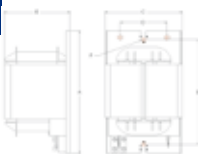
Product Code	Description	Voltage/ Frequency	Lamp Type	Lamp Wattage	Picture	Dimensions (mm)								Carton Quantity (PCS)	Carton Weight (Kg)	Package Size (mm)	
						A	B	C	D	E	F	G	H				
99664	CSI 1000/220V/50Hz	220V/50Hz	CSI&CID	MH	1000W	153	125	98	176	148	147	195	195	R4	1	15.5	260*175*170
89186	CSI 1000/220V/60Hz	220V/60Hz	CSI&CID	MH	1000W	153	125	98	176	148	147	195	195	R4	1	15.4	260*175*170
89187	CSI 1000/230V/50Hz	230V/50Hz	CSI&CID	MH	1000W	153	125	98	176	148	147	195	195	R4	1	15.6	260*175*170
89188	CSI 1000/230V/60Hz	230V/60Hz	CSI&CID	MH	1000W	153	125	98	176	148	147	195	195	R4	1	15.5	260*175*170
89189	CSI 1000/240V/50Hz	240V/50Hz	CSI&CID	MH	1000W	153	125	98	176	148	147	195	195	R4	1	15.7	260*175*170

220V/50Hz

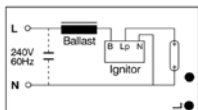
Product Code	Description	Lamp current (A)	Start Current (A)	Cosφ≥0.9 Circuit Current(A)	Capacitor (μF)	Max Loss (W)	System Power (W)	Ignitor	Temp Rise (K)	Wiring Diagram
65869	MSB35/220V/50Hz/A/T	0.53	0.30	0.25	6	9.3	46	MSI/150 or MSI/400	70	A
65870	MSB50/220V/50Hz/A/T	0.76	0.42	0.32	8	10	60	MSI/150 or MSI/400	70	A
65871	MSB70/220V/50Hz/A/T	0.98	0.60	0.46	12	16	86	MSI/150 or MSI/400	70	A
65872	MSB100/220V/50Hz/A/T	1.2	0.82	0.63	12	17	117	MSI/150 or MSI/400	70	A
65873	MSB150/220V/50Hz/A/T	1.8	1.20	0.92	20	22	172	MSI/150 or MSI/400	70	A
65874	MSB250/220V/50Hz/A/T	3	1.95	1.50	32	30	280	MSI/400	80	A
65875	MSB400/220V/50Hz/A/T	4.6	3.04	2.34	50	37	437	MSI/400	70	A
65876	MSB600/220V/50Hz/A/T	6.2	4.52	3.48	60	50	650	MSI/1000	80	A
65877	MHB50/220V/50Hz/A/T	0.62	0.46	0.32	8	10	60	N/A	70	B
65878	MHB80/220V/50Hz/A/T	0.8	0.71	0.49	8	11	91	N/A	70	B
65879	MHB125/220V/50Hz/A/T	1.15	1.09	0.75	10	15	140	N/A	70	B
65880	MHB175/220V/50Hz/A/T	1.5	1.49	1.03	12	17	192	N/A	70	B

65881	MHB250/220V/50Hz/A/T	2.1	2.13	1.47	20	24	274	MSI/400 for MH	70	A
		2.15	2.13	1.47	20	24	274	N/A for HPM	70	B
65882	MHB400/220V/50Hz/A/T	3.25	3.35	2.31	28	32	432	MSI/400 for MH	80	A
		3.25	3.35	2.31	28	32	432	N/A for HPM	80	B
65883	MSB100/70/220V/50Hz/A/T	1.2/1.0	0.75	0.62/0.43	12	17	117/86	MSI/400	70	C
65884	MSB150/100/220V/50Hz/A/T	1.8/1.4	1.10	0.92/0.68	20	22	172/120	MSI/400	70	C
65885	MSB250/150/220V/50Hz/A/T	3.0/2.2	1.80	1.49/0.90	32	30	280/178	MSI/400	70	C
65886	MSB400/250/220V/50Hz/A/T	4.6/3.6	2.80	2.33/1.43	50	37	437/285	MSI/400	70	C

Dimension (mm)



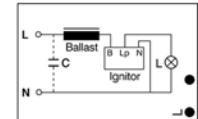
Wiring Diagram



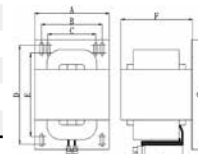
Dimension (mm)



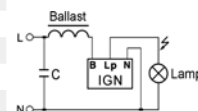
Wiring Diagram



Dimension (mm)



Wiring Diagram

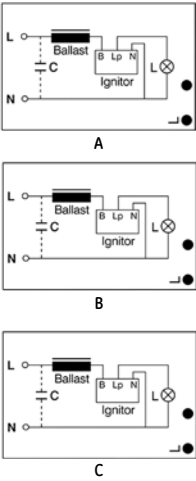


Dimension (mm)



Ballast

Wiring Diagram

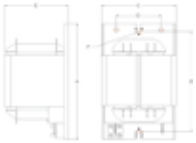


Product Code	Description	Voltage/ Frequency	Lamp Type	Lamp Wattage	Dimensions (mm)						Carton Quantity (PCS)	Carton Weight (Kg)	Package Size (mm)
					A	B	C	D	E	F			
65869	MSB35/220V/50Hz/A/T	220V/50Hz	MH	35W	117	95	60	36	52	R3	8	6.9	255*150*170
65870	MSB50/220V/50Hz/A/T	220V/50Hz	HPS	50W	117	95	60	36	52	R3	8	9	255*150*170
65871	MSB70/220V/50Hz/A/T	220V/50Hz	HPS/MH	70W	117	95	60	36	52	R3	8	9.5	255*150*170
65872	MSB100/220V/50Hz/A/T	220V/50Hz	HPS/MH	100W	140	118	60	36	52	R3	6	11.8	260*175*170
65873	MSB150/220V/50Hz/A/T	220V/50Hz	HPS/MH	150W	126	104	75	45	64.5	R3	6	15.5	255*150*170
65874	MSB250/220V/50Hz/A/T	220V/50Hz	HPS/MH	250W	155	133	75	45	64.5	R3	4	20.8	260*175*170
65875	MSB400/220V/50Hz/A/T	220V/50Hz	HPS/MH	400W	165	143	96	61	82	R3	2	19.3	210*190*198
65876	MSB600/220V/50Hz/A/T	220V/50Hz	HPS	600W	200	178	96	61	82	R3	8	12.4	240*220*104
65877	MHB50/220V/50Hz/A/T	220V/50Hz	HPM	50W	117	95	60	36	52	R3	8	8.5	255*150*170
65878	MHB80/220V/50Hz/A/T	220V/50Hz	HPM	80W	117	95	60	36	52	R3	8	9	255*150*170
65879	MHB125/220V/50Hz/A/T	220V/50Hz	HPM	125W	140	118	60	36	52	R3	8	11.6	260*175*170
65880	MHB175/220V/50Hz/A/T	220V/50Hz	HPM/MH	175W	126	104	75	45	64.5	R3	6	8.9	255*150*170
65881	MHB250/220V/50Hz/A/T	220V/50Hz	HPM/MH	250W	150	128	75	45	64.5	R3	6	16.5	260*175*170
65882	MHB400/220V/50Hz/A/T	220V/50Hz	HPM/MH	400W	160	138	75	45	64.5	R3	6	17.9	260*175*170
65883	MSB100/70/220V/50Hz/A/T	220V/50Hz	HPS	100W	126	104	75	45	64.5	R3	6	9.6	255*150*170
65884	MSB150/100/220V/50Hz/A/T	220V/50Hz	HPS	150W	150	128	75	45	64.5	R3	6	14.1	260*175*170
65885	MSB250/150/220V/50Hz/A/T	220V/50Hz	HPS	250W	165	143	96	61	82	R3	4	13.3	210*190*198
65886	MSB400/250/220V/50Hz/A/T	220V/50Hz	HPS	400W	200	178	96	61	82	R3	2	12.3	240*220*104

230V/50Hz

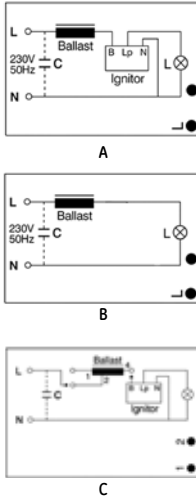


Dimension (mm)



Product Code	Description	Lamp current (A)	Start Current (A)	Cosφ≥0.9 Circuit Current(A)	Capacitor (μF)	Max Loss (W)	System Power (W)	Ignitor	Temp Rise (K)	Wiring Diagram
65890	MSB35/230V/50Hz/A/T	0.53	0.280	0.230	6	9.3	46	MSI/150 or MSI/400	70	A
65891	MSB50/230V/50Hz/A/T	0.76	0.390	0.300	8	10	60	MSI/150 or MSI/400	70	A
65892	MSB70/230V/50Hz/A/T	0.98	0.550	0.420	12	16	86	MSI/150 or MSI/400	70	A
65893	MSB100/230V/50Hz/A/T	1.2	0.750	0.580	12	17	117	MSI/150 or MSI/400	70	A
65894	MSB150/230V/50Hz/A/T	1.8	1.110	0.850	20	22	172	MSI/150 or MSI/400	70	A
65895	MSB250/230V/50Hz/A/T	3	1.790	1.380	32	30	280	MSI/400	70	A
65896	MSB400/230V/50Hz/A/T	4.6	2.810	2.160	50	37	437	MSI/400	70	A
65897	MSB600/230V/50Hz/A/T	6.2	4.170	3.210	60	50	650	MSI/1000	80	A
65898	MHB50/230V/50Hz/A/T	0.62	0.440	0.300	8	10	60	N/A	70	B
65899	MHB80/230V/50Hz/A/T	0.8	0.650	0.450	8	11	91	N/A	70	B
65900	MHB125/230V/50Hz/A/T	1.15	1.000	0.690	10	15	140	N/A	70	B
65901	MHB175/230V/50Hz/A/T	1.5	1.380	0.950	12	17	192	N/A	70	B
65902	MHB250/230V/50Hz/A/T	2.13	1.960	1.350	20	24	274	MSI/400 for MH	70	A
		2.13	1.960	1.350	20	24	274	N/A for HPM	70	B
65904	MHB400/230V/50Hz/A/T	3.25	3.090	2.130	25	32	432	MSI/400 for MH	70	A
		3.25	3.090	2.130	25	32	432	N/A for HPM	70	B
65905	MSB100/70/230V/50Hz/A/T	1.2/1.0	0.690	0.58/0.41	12	17	117/86	MSI/400	70	C
65906	MSB150/100/230V/50Hz/A/T	1.8/1.4	1.020	0.85/0.57	20	22	172/120	MSI/400	70	C
65907	MSB250/150/230V/50Hz/A/T	3.0/2.2	1.660	1.38/0.85	32	30	280/178	MSI/400	70	C
65908	MSB400/250/230V/50Hz/A/T	4.6/3.6	2.590	2.16/1.37	50	37	437/285	MSI/400	70	C

Wiring Diagram



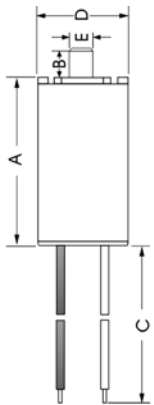
Product Code	Description	Voltage/ Frequency	Lamp Type	Lamp Wattage	Dimensions (mm)						Carton Quantity (PCS)	Carton Weight (Kg)	Package Size (mm)
					A	B	C	D	E	F			
65890	MSB35/230V/50Hz/A/T	230V/50Hz	MH	35W	117	95	60	36	52	R3	8	8.5	255*150*170
65891	MSB50/230V/50Hz/A/T	230V/50Hz	HPS	50W	117	95	60	36	52	R3	8	9	255*150*170
65892	MSB70/230V/50Hz/A/T	230V/50Hz	HPS/MH	70W	117	95	60	36	52	R3	8	9.8	255*150*170
65893	MSB100/230V/50Hz/A/T	230V/50Hz	HPS/MH	100W	140	118	60	36	52	R3	8	12.9	260*175*170
65894	MSB150/230V/50Hz/A/T	230V/50Hz	HPS/MH	150W	126	104	75	45	64.5	R3	6	12.2	255*150*170
65895	MSB250/230V/50Hz/A/T	230V/50Hz	HPS/MH	250W	165	143	96	61	82	R3	4	12.6	260*175*170
65896	MSB400/230V/50Hz/A/T	230V/50Hz	HPS/MH	400W	170	148	96	61	82	R3	4	10.3	210*190*198
65897	MSB600/230V/50Hz/A/T	230V/50Hz	HPS	600W	200	178	96	61	82	R3	2	12.8	240*220*104
65898	MHB50/230V/50Hz/A/T	230V/50Hz	HPM	50W	117	95	60	36	52	R3	8	8.5	255*150*170
65899	MHB80/230V/50Hz/A/T	230V/50Hz	HPM	80W	117	95	60	36	52	R3	8	9.5	255*150*170
65900	MHB125/230V/50Hz/A/T	230V/50Hz	HPM	125W	140	118	60	36	52	R3	8	11	260*175*170
65901	MHB175/230V/50Hz/A/T	230V/50Hz	HPM	175W	126	104	75	45	64.5	R3	6	11.1	255*150*170
65902	MHB250/230V/50Hz/A/T	230V/50Hz	HPM/MH	250W	150	128	75	45	64.5	R3	6	14.3	260*175*170
65904	MHB400/230V/50Hz/A/T	230V/50Hz	HPM/MH	400W	165	143	96	61	82	R3	4	12.6	260*175*170
65905	MSB100/70/230V/50Hz/A/T	230V/50Hz	HPS	100W	126	104	75	45	64.5	R3	6	10.2	255*150*170
65906	MSB150/100/230V/50Hz/A/T	230V/50Hz	HPS	150W	150	128	75	45	64.5	R3	6	14.9	260*175*170
65907	MSB250/150/230V/50Hz/A/T	230V/50Hz	HPS	250W	165	143	96	61	82	R3	4	14.3	210*190*198
65908	MSB400/250/230V/50Hz/A/T	230V/50Hz	HPS	400W	200	178	96	61	82	R3	2	12.3	240*220*104

Capacitor with line



Dimension (mm)

Product Code	Description	Capacitance (μF)	Voltage/ Frequency	Mounting (mm)	Case Temp(°C)	Dimensions (mm)					Carton Quantity (PCS)	Carton Weight (Kg)	Package Size (mm)	Case
						A	B	C	D	E				
70993	6μF/250V	6	250V/50-60Hz	M8	-40~100	62	12	350	30	M8	80	5.7	453*292*184	A
70994	8μF/250V	8	250V/50-60Hz	M8	-40~100	62	12	350	30	M8	80	5.7	453*292*184	A
82017	10μF/250V	10	250V/50-60Hz	M8	-40~100	82	12	350	35	M8	40	4.1	453*292*184	A
70995	12μF/250V	12	250V/50-60Hz	M8	-40~100	82	12	350	35	M8	40	4.18	453*292*184	A
70996	18μF/250V	18	250V/50-60Hz	M8	-40~100	82	12	350	35	M8	40	4.66	453*292*184	A
71009	25μF/250V	25	250V/50-60Hz	M8	-40~100	82	12	350	45	M8	40	6.2	453*292*184	A
70997	32μF/250V	32	250V/50-60Hz	M8	-40~100	82	12	350	45	M8	40	6.42	453*292*184	A
72090	36μF/250V	36	250V/50-60Hz	M8	-40~100	92	12	350	50	M8	40	8.15	453*292*184	A
70998	50μF/250V	50	250V/50-60Hz	M8	-40~100	92	12	350	50	M8	40	8.37	453*292*184	A
89197	25μF/540V	25	540V/50-60Hz	M8	-40~105	105	10	250	55	M8	28	8.4	453*292*184	B
89200	35μF/540V	35	540V/50-60Hz	M8	-40~105	105	10	250	60	M8	28	9.4	453*292*184	B



Capacitor with clamp



Dimension (mm)

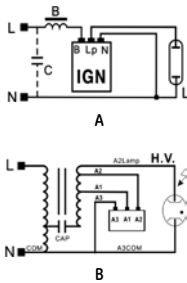
Product Code	Description	Capacitance (μF)	Voltage/ Frequency	Mounting (mm)	Case Temp(°C)	Dimensions (mm)						Carton Quantity (PCS)	Carton Weight (Kg)	Package Size (mm)
						A	B	C	D	E	F			
28243	6μF/250V/C	6	250V/50-60Hz	M8	-40~105	63	10	12	40	M8	16	80	9.6	453*292*184
28244	8μF/250V/C	8	250V/50-60Hz	M8	-40~105	63	10	12	40	M8	16	80	9.5	453*292*184
28246	10μF/250V/C	10	250V/50-60Hz	M8	-40~105	63	10	12	40	M8	16	40	9.5	453*292*184
28253	12μF/250V/C	12	250V/50-60Hz	M8	-40~105	73	10	12	40	M8	16	40	6	453*292*184
28255	18μF/250V/C	18	250V/50-60Hz	M8	-40~105	83	10	12	40	M8	16	40	6.5	453*292*184
28256	25μF/250V/C	25	250V/50-60Hz	M8	-40~105	83	10	12	45	M8	18	40	7.5	453*292*184
28257	32μF/250V/C	32	250V/50-60Hz	M8	-40~105	93	10	12	45	M8	18	40	8.5	453*292*184
28258	50μF/250V/C	50	250V/50-60Hz	M8	-40~105	103	10	12	50	M8	18	40	10	453*292*184

Ballast

Ignitor



Wiring Diagram



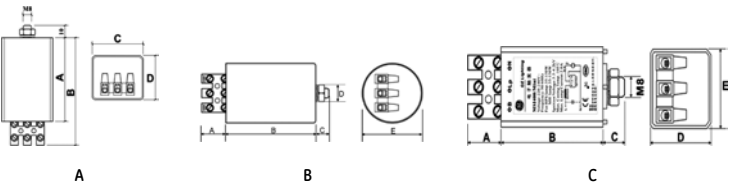
Product Code	Description	Voltage/Frequency	Lamp Type	Lamp Wattage	Max load Capacitor(pF)	Max current (A)	Wiring Diagram
65954	MSI/150	220V-240V/50-60Hz	HPS/MH	35-150W	20	2	A
11233	MSI/400	220V-240V/50-60Hz	HPS/MH	35-400W	150	5	A
11234	MSI/1000	220V-240V/50-60Hz	HPS/MH	600-1000W/575-1000W	150	12	A
11235	MSI/400/L	220V-240V/50-60Hz	HPS/MH	35-400W	150	5	A
95883	MSI/1000/L	220V-240V/50-60Hz	HPS/MH	600-1000W/575-1000W	1000	12	A
81303*	MSIA1000	220V-240V/50-60Hz	S52	1000W	1000	12	B
89193	MSI/1000/CSI/Aluminum	220V-240V/50-60Hz	CSI	1000W	100	18	A
89195	MSI/2000	380V/50Hz	HPS/MH	1000W/1000-2000W	100	12	A

* Suitable for the CWA1000 Lamp

Product Code	Picture	Dimensions (mm)					Max casing temperature (°C)	Carton Quantity (PCS)	Carton Weight (Kg)	Package Size (mm)	Certification
		A	B	C	D	E					
65954	C	17	51	12	29	32	105	100	15	385*190*180	CQC
11233	A	65	82	32	29	-	105	100	15.8	385*190*180	CQC, CE
11234	A	76	93	48	40	-	105	50	18.5	270*225*240	CQC
11235	A	65	82	32	29	-	105	100	15.8	385*190*180	CQC
95883	A	76	93	48	40	-	105	50	18.5	270*225*240	CQC
81303*	A	65	82	32	29	-	105	100	12.3	385*210*210	CQC
89193	B	20	85	14	M12	60	105	36	27.5	385*260*210	CE
89195	B	21	75	70	M8	50	105	50	19.3	283*230*280	CE

* Suitable for the CWA1000 Lamp

Dimension (mm)



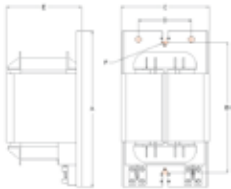
Bi-Level Electromagnetic Ballast



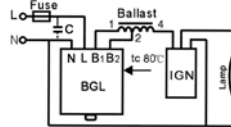
Product Code	Description	Lamp current (A)	Start Current (A)	Cosφ≥0.9 Circuit Current(A)	Capacitor (μF)	Max Loss (W)	System Power (W)	Ignitor*	Temp Rise (K)	Max Operating Temp (°C)	Certification
89165	MSB100/70/220V/50Hz/T	1.2/0.98	0.70/0.56	0.59/0.42	12	17/14	116/84	MSI/400	70	130	CCC, CB
89160	MSB150/100/220V/50Hz/T	1.8/1.4	1.03/0.77	0.86/0.57	20	21/16	170/116	MSI/400	70	130	CCC, CB
89155	MSB250/150/220V/50Hz/T	3/2.5	1.69/1.16	1.40/0.86	32	35/24	278/174	MSI/400	70	130	CCC, CB
89144	MSB400/250/220V/50Hz/T	4.6/3.4	2.64/1.89	2.20/1.40	50	54/40	435/283	MSI/400	70	130	CCC, CB
89168	MSB100/70/220V/60Hz/T	1.2/0.98	0.70/0.56	0.59/0.42	12	17/14	116/84	MSI/400	70	130	CB
89163	MSB150/100/220V/60Hz/T	1.8/1.4	1.03/0.77	0.86/0.57	20	21/16	170/116	MSI/400	70	130	CB
99658	MSB250/150/220V/60Hz/T	3/2.5	1.69/1.16	1.40/0.86	32	35/24	278/174	MSI/400	70	130	CB
89153	MSB400/250/220V/60Hz/T	4.6/3.4	2.64/1.89	2.20/1.40	50	54/40	435/283	MSI/400	70	130	CB
89166	MSB100/70/230V/50Hz/T	1.2/0.98	0.67/0.54	0.56/0.40	12	18/15	116/84	MSI/400	70	130	CB
89161	MSB150/100/230V/50Hz/T	1.8/1.4	0.99/0.74	0.82/0.55	20	22/17	170/116	MSI/400	70	130	CB
89156	MSB250/150/230V/50Hz/T	3/2.5	1.61/1.11	1.34/0.82	32	27/28	278/174	MSI/400	70	130	CB
89151	MSB400/250/230V/50Hz/T	4.6/3.4	2.52/1.80	2.10/1.33	50	57/42	435/283	MSI/400	70	130	CB
89169	MSB100/70/230V/60Hz/T	1.2/0.98	0.67/0.54	0.56/0.40	12	18/15	116/84	MSI/400	70	130	CB
89164	MSB150/100/230V/60Hz/T	1.8/1.4	0.99/0.74	0.82/0.55	20	22/17	170/116	MSI/400	70	130	CB
99659	MSB250/150/230V/60Hz/T	3/2.25	1.61/1.11	1.34/0.82	32	37/28	278/174	MSI/400	70	130	CB
89154	MSB400/250/230V/60Hz/T	4.6/3.4	2.52/1.80	2.10/1.33	50	57/42	435/283	MSI/400	70	130	CB
89167	MSB100/70/240V/50Hz/T	1.2/0.98	0.64/0.51	0.54/0.38	12	19/16	116/84	MSI/400	70	130	CB
99660	MSB150/100/240V/50Hz/T	1.8/1.4	0.94/0.71	0.79/0.53	20	23/18	170/116	MSI/400	70	130	CB
89157	MSB250/150/240V/50Hz/T	3/2.5	1.54/1.06	1.29/0.79	32	39/29	278/174	MSI/400	70	130	CB
89152	MSB400/250/240V/50Hz/T	4.6/3.4	2.42/1.73	2.00/1.29	50	60/44	435/283	MSI/400	70	130	CB

*Ignitor details in HID Ignitor Group

Dimension (mm)



Wiring Diagram



Ballast

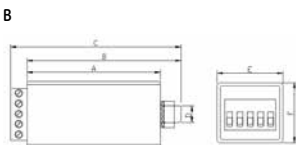
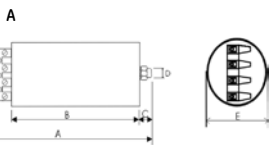
Bi-Level Electromagnetic Ballast

Product Code	Description	Voltage/ Frequency	Lamp Type	Lamp Wattage	Dimensions (mm)						Carton Quantity (PCS)	Carton Weight (Kg)	Package Size (mm)
					A	B	C	D	E	F			
89165	MSB100/70/220V/50Hz/T	220V/50Hz	HPS	100W	126	104	75	45	64	R3	6	10.8	255*150*170
89160	MSB150/100/220V/50Hz/T	220V/50Hz	HPS	150W	126	104	75	45	64	R3	6	13.7	255*150*170
89155	MSB250/150/220V/50Hz/T	220V/50Hz	HPS	250W	130	108	96	61	82	R3	4	12.8	210*190*205
89144	MSB400/250/220V/50Hz/T	220V/50Hz	HPS	400W	145	123	114	81	97	R3	2	10.4	260*185*115
89168	MSB100/70/220V/60Hz/T	220V/60Hz	HPS	100W	126	104	75	45	64	R3	6	10.7	255*150*170
89163	MSB150/100/220V/60Hz/T	220V/60Hz	HPS	150W	126	104	75	45	64	R3	6	13.4	255*150*170
99658	MSB250/150/220V/60Hz/T	220V/60Hz	HPS	250W	130	108	96	61	82	R3	4	12.7	210*190*205
89153	MSB400/250/220V/60Hz/T	220V/60Hz	HPS	400W	145	123	114	81	97	R3	2	10.3	260*185*115
89166	MSB100/70/230V/50Hz/T	230V/50Hz	HPS	100W	126	104	75	45	64	R3	6	10.9	255*150*170
89161	MSB150/100/230V/50Hz/T	230V/50Hz	HPS	150W	126	104	75	45	64	R3	6	13.6	255*150*170
89156	MSB250/150/230V/50Hz/T	230V/50Hz	HPS	250W	130	108	96	61	82	R3	4	13.1	210*190*205
89151	MSB400/250/230V/50Hz/T	230V/50Hz	HPS	400W	145	123	114	81	97	R3	2	10.5	260*185*115
89169	MSB100/70/230V/60Hz/T	230V/60Hz	HPS	100W	126	104	75	45	64	R3	6	10.8	255*150*170
89164	MSB150/100/230V/60Hz/T	230V/60Hz	HPS	150W	126	104	75	45	64	R3	6	13.7	255*150*170
99659	MSB250/150/230V/60Hz/T	230V/60Hz	HPS	250W	130	108	96	61	82	R3	4	12.8	210*190*205
89154	MSB400/250/230V/60Hz/T	230V/60Hz	HPS	400W	145	123	114	81	97	R3	2	10.4	260*185*115
89167	MSB100/70/240V/50Hz/T	240V/50Hz	HPS	100W	126	104	75	45	64	R3	6	11.4	255*150*170
99660	MSB150/100/240V/50Hz/T	240V/50Hz	HPS	150W	126	104	75	45	64	R3	6	14	255*150*170
89157	MSB250/150/240V/50Hz/T	240V/50Hz	HPS	250W	130	108	96	61	82	R3	4	13.2	210*190*205
89152	MSB400/250/240V/50Hz/T	240V/50Hz	HPS	400W	145	123	114	81	97	R3	2	11.3	260*185*115

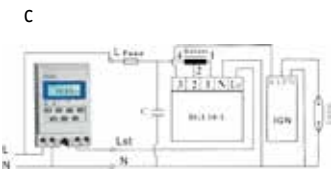
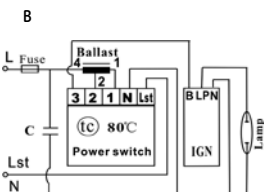
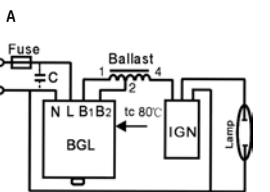
Power Switch/Timer

Product Code	Description	Loss (W)	Max Operating Temp (°C)	Dimension Diagram	Wiring Diagram	Dimensions (mm)						Carton Quantity(PCS)	Carton Weight (Kg)	Package Size (mm)
						A	B	C	D	E	F			
89170	MSB/Dual/PS	3	80	A	D	132	102	10	M8	φ45	-	50	18.6	283*242*265
75251	MSB/Dual/PS/Timer	3	80	B	E	65	75	84	M8	32	29	100	10	385*190*180
89176	Timer/PS	3	-30~50	C	F	125	70	50	-	-	-	1	0.354	125*70*157

Dimension (mm)



Wiring Diagram



220V/50Hz

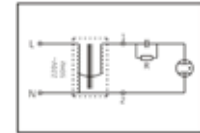
Product Code	Description	Lamp current (A)	Max Start Current (A)	Cosφ≥0.9		Loss (W)	System Power (W)	Ignitor	Temp Rise (K)
				Circuit Current(A)	Capacitor (μF)				
10987	CWA175/220V/50Hz	1.5	0.88	1.03	13	38	210	N/A	75
10988	CWA250/220V/50Hz	2.1	1.22	1.44	19	45	295	N/A	80
10989	CWA400/220V/50Hz	3.25	1.89	2.23	28	58	458	N/A	80
10991	CWA1000/220V/50Hz	4.1	4.50	5.30	30	85	1085	N/A	80
10992	CWA1500/220V/50Hz	6.2	6.70	7.90	41	125	1625	N/A	80

Product Code	Description	Voltage/ Frequency	Lamp Type	Lamp Wattage	Dimensions (mm)						Carton Quantity (PCS)	Carton Weight (Kg)	Package Size (mm)
					A	B	C	D	E	F			
10987	CWA175/220V/50Hz	220V/50Hz	ANSI MH	175W	130	108	114	81	97	R3	2	7.7	210*190*250
10988	CWA250/220V/50Hz	220V/50Hz	ANSI MH	250W	145	123	114	81	97	R3	2	10.2	260*185*115
10989	CWA400/220V/50Hz	220V/50Hz	ANSI MH	400W	168	146	114	81	97	R3	2	14.2	260*185*115
10991	CWA1000/220V/50Hz	220V/50Hz	ANSI MH	1000W	200	178	127	94	112	R3	2	22.9	285*220*135
10992	CWA1500/220V/50Hz	220V/50Hz	ANSI MH	1500W	235	213	127	94	112	R3	1	14.3	255*150*135

Dimension (mm)



Wiring Diagram



230V/50Hz

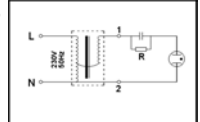
Product Code	Description	Lamp current (A)	Max Start Current (A)	Cosφ≥0.9		Loss (W)	System Power (W)	Ignitor	Temp Rise (K)
				Circuit Current(A)	Capacitor (μF)				
95878	CWA175/230V/50Hz	1.5	0.830	0.98	13	38	210	N/A	80
95879	CWA250/230V/50Hz	2.1	1.170	1.38	19	45	295	N/A	80
95880	CWA400/230V/50Hz	3.25	1.830	2.15	28	60	460	N/A	80
95881	CWA1000/230V/50Hz	4.1	4.300	5.07	30	85	1085	N/A	80
95882	CWA1500/230V/50Hz	6.2	6.500	7.64	41	135	1635	N/A	90

Product Code	Description	Voltage/ Frequency	Lamp Type	Lamp Wattage	Dimensions (mm)						Carton Quantity (PCS)	Carton Weight (Kg)	Package Size (mm)
					A	B	C	D	E	F			
95878	CWA175/230V/50Hz	230V/50Hz	ANSI MH	175W	130	108	114	81	97	R3	2	7.4	210*190*250
95879	CWA250/230V/50Hz	230V/50Hz	ANSI MH	250W	145	123	114	81	97	R3	2	8.6	260*185*115
95880	CWA400/230V/50Hz	230V/50Hz	ANSI MH	400W	168	146	114	81	97	R3	2	14.2	260*185*115
95881	CWA1000/230V/50Hz	230V/50Hz	ANSI MH	1000W	200	178	127	94	112	R3	2	22.9	285*220*135
95882	CWA1500/230V/50Hz	230V/50Hz	ANSI MH	1500W	235	213	127	94	112	R3	1	14.3	255*150*135

Dimension (mm)



Wiring Diagram



240V/50Hz

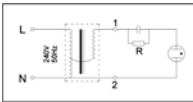
Product Code	Description	Lamp current (A)	Max Start Current (A)	Cosφ≥0.9		Loss (W)	System Power (W)	Ignitor	Temp Rise (K)
				Circuit Current(A)	Capacitor (μF)				
11228	CWA175/240V/50Hz	1.5	0.85	0.94	13	35	210	N/A	80
11229	CWA250/240V/50Hz	2.1	1.10	1.32	19	45	295	N/A	80
11230	CWA400/240V/50Hz	3.25	1.75	2.06	28	60	460	N/A	80
11231	CWA1000/240V/50Hz	4.1	4.10	4.86	30	85	1085	N/A	80
11232	CWA1500/240V/50Hz	6.2	6.50	7.30	41	135	1635	N/A	90

Dimension (mm)

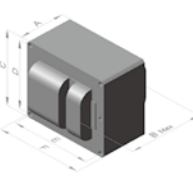


Ballast

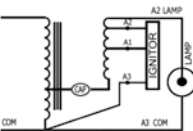
Wiring Diagram



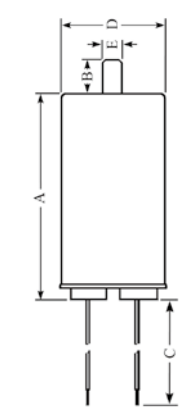
Dimension (mm)



Wiring Diagram



Dimension (mm)



Product Code	Description	Voltage/ Frequency	Lamp Type	Lamp Wattage	Dimensions (mm)						Carton Quantity (PCS)	Carton Weight (Kg)	Package Size (mm)
					A	B	C	D	E	F			
11228	CWA175/240V/50Hz	240V/50Hz	ANSI MH	175W	130	108	114	81	97	R3	2	7.4	210*190*250
11229	CWA250/240V/50Hz	240V/50Hz	ANSI MH	250W	145	123	114	81	97	R3	2	8.6	260*185*115
11230	CWA400/240V/50Hz	240V/50Hz	ANSI MH	400W	168	146	114	81	97	R3	2	14.2	260*185*115
11231	CWA1000/240V/50Hz	240V/50Hz	ANSI MH	1000W	200	178	127	94	112	R3	2	22.9	285*220*135
11232	CWA1500/240V/50Hz	240V/50Hz	ANSI MH	1500W	235	213	127	94	112	R3	1	14.3	255*150*135

CWA1000

CB

Product Code	Description	Lamp current (A)	Max Start Current (A)	Cosφ≥0.9 Circuit Current(A)	Capacitor (μF)	Loss (W)	System Power (W)	Ignitor*	Temp Rise (K)
81302	CWA1000/S52/220V/50Hz	4.7	4.20	5.20	30	115	1100	MSIA/1000	80
85922	CWA1000/S52/220V/60Hz	4.7	3.60	5.10	26	105	1085	MSIA/1000	80
85923	CWA1000/S52/230V/50Hz	4.7	4.00	5.00	30	115	1100	MSIA/1000	80
85926	CWA1000/S52/230V/60Hz	4.7	3.40	4.90	26	105	1085	MSIA/1000	80
85921	CWA1000/S52/240V/50Hz	4.7	3.80	4.80	30	115	1100	MSIA/1000	80

Product Code	Description	Voltage/ Frequency	Lamp Type	Lamp Wattage	Dimensions (mm)						Carton Quantity (PCS)	Carton Weight (Kg)	Net Weight (Kg)	Package Size (mm)
					A	B	C	D	E	F				
81302	CWA1000/S52/220V/50Hz	220V/50Hz	ANSI HPS	1000W	108	163	108	98	136	152	1	14.4	14	210*190*160
85922	CWA1000/S52/220V/60Hz	220V/60Hz	ANSI HPS	1000W	95	150	108	98	136	152	1	12.67	12.27	210*190*160
85923	CWA1000/S52/230V/50Hz	230V/50Hz	ANSI HPS	1000W	108	163	108	98	136	152	1	14.01	13.71	210*190*160
85926	CWA1000/S52/230V/60Hz	230V/60Hz	ANSI HPS	1000W	95	150	108	98	136	152	1	12.63	12.23	210*190*160
85921	CWA1000/S52/240V/50Hz	240V/50Hz	ANSI HPS	1000W	108	163	108	98	136	152	1	14.07	13.67	210*190*160

*Ignitor details in HID Ignitor Group

Capacitor with line

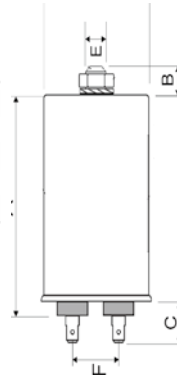
CAC CE

Product Code	Description	Capacitance (μF)	Voltage/ Frequency	Case Temp (°C)	Dimensions (mm)					Carton Quantity (PCS)	Carton Weight (Kg)	Package Size (mm)
					A	B	C	D	E			
10993	13μF/540V	13	540V/50~60Hz	-40~105	95	10	250	45	M8	40	8	453*292*184
10994	19μF/540V	19	540V/50~60Hz	-40~105	95	10	250	50	M8	40	10	453*292*184
10995	28μF/540V	28	540V/50~60Hz	-40~105	105	10	250	55	M8	28	8.5	453*292*184
10996	30μF/540V	30	540V/50~60Hz	-40~105	115	10	250	55	M8	28	9	453*292*184
10997	41μF/540V	41	540V/50~60Hz	-40~105	115	10	250	60	M10	28	10.5	453*292*184
89625	26μF/540V	26	540V/50~60Hz	-40~105	105	10	250	55	M8	28	8	453*292*184

Capacitor with clamp

CAC CE Dimension (mm)

Product Code	Description	Capacitance (μF)	Voltage/ Frequency	Case Temp (°C)	Dimensions (mm)						Carton Quantity (PCS)	Carton Weight (Kg)	Package Size (mm)
					A	B	C	D	E	F			
31599	13μF/540V/C	13	540V/50~60Hz	-40~105	93	10	12	45	M8	18	40	8	453*292*184
31614	19μF/540V/C	19	540V/50~60Hz	-40~105	93	10	12	50	M8	18	40	10	453*292*184
31625	28μF/540V/C	28	540V/50~60Hz	-40~105	103	10	12	55	M8	20	28	8.5	453*292*184
31638	30μF/540V/C	30	540V/50~60Hz	-40~105	113	10	12	55	M8	20	28	9	453*292*184
31647	41μF/540V/C	41	540V/50~60Hz	-40~105	113	10	12	60	M10	20	28	10.5	453*292*184



Miniature eHID

CAC CE CB Intertek

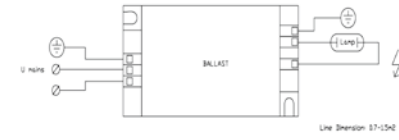
Product Code	Description	Input Power (W)	Input Current (A)	S Power Factor (PF)	EEL	Tc Point (°C)	Ambient Temperature Range (°C)	THD	Case
78711	BLS/E/20W/CMH	23	0.1	0.95	A2	80	-20~55	<15%	A
78712	BLS/E/20W/CMH/R CC	23	0.1	0.95	A2	80	-20~55	<15%	B
78713	BLS/E/20W/CMH/R LP	23	0.1	0.95	A2	80	-20~55	<15%	C
78714	BLS/E/35W/CMH	44	0.19	0.95	A2	85	-20~55	<15%	A
78715	BLS/E/35W/CMH/R CC	44	0.19	0.95	A2	85	-20~55	<15%	B
78716	BLS/E/35W/CMH/R LP	44	0.19	0.95	A2	85	-20~55	<15%	C

Product Code	Description	Lamp Type	Lamp Wattage	Lamp Quantity	Voltage/Frequency	Dimensions (mm)			Carton Quantity (PCS)	Unit Weight (g)
						L	W	H		
78711	BLS/E/20W/CMH	CMH	20W	1	220-240V/50-60Hz	97.3	43.3	30	12	165
78712	BLS/E/20W/CMH/R CC	CMH	20W	1	220-240V/50-60Hz	162	43.3	30	12	180
78713	BLS/E/20W/CMH/R LP	CMH	20W	1	220-240V/50-60Hz	162	43.3	30	12	240
78714	BLS/E/35W/CMH	CMH	35W	1	220-240V/50-60Hz	97.3	43.3	30	12	165
78715	BLS/E/35W/CMH/R CC	CMH	35W	1	220-240V/50-60Hz	162	43.3	30	12	180
78716	BLS/E/35W/CMH/R LP	CMH	35W	1	220-240V/50-60Hz	162	43.3	30	12	240

Case



Wiring Diagram



NOTE
Terminal Wire
Cross-section: 0.75 to 1.5 mm²
Strip Length: 6-7 mm

Ballast

Standard eHID

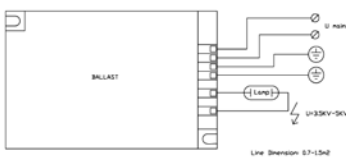


Product Code	Description	Input Power (W)	Input Current (A)	Power Factor (PF)	THD	EEI	Tc Point (°C)	Ambient Temperature Range (°C)	Case
61487	BLS/ES/35W/CMH	44	0.19	0.95	< 10%	A2	85	-20~55	A
61488	BLS/ES/35W/CMH/R CC	44	0.19	0.95	< 10%	A2	85	-20~50	B
61376	BLS/ES/70W/CMH	81	0.35	0.95	< 10%	A2	85	-20~55	A
61569	BLS/ES/70W/CMH/R CC	81	0.35	0.95	< 10%	A2	85	-20~50	B

Product Code	Description	Lamp Type	Lamp Wattage	Lamp Quantity	Voltage/Frequency	Dimensions (mm)			Carton Quantity (PCS)	Unit Weight (g)
						L	W	H		
61487	BLS/ES/35W/CMH	CMH/QMH	35W	1	220-240V/50-60Hz	110	70	31	10	350
61488	BLS/ES/35W/CMH/R CC	CMH/QMH	35W	1	220-240V/50-60Hz	140	70	31	10	370
61376	BLS/ES/70W/CMH	CMH/QMH	70W	1	220-240V/50-60Hz	110	70	31	10	350
61569	BLS/ES/70W/CMH/R CC	CMH/QMH	70W	1	220-240V/50-60Hz	140	70	31	10	370

Case

Wiring Diagram



NOTE
Terminal Wire
Cross-section: 0.75 to 1.5 mm²
Strip Length: 6-7 mm

Economics eHID



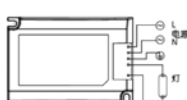
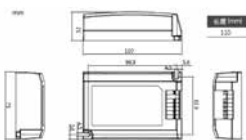
Product Code	Description	Input Power (W)	Input Current (A)	Power Factor (PF)	THD	EEI	Tc Point (°C)	Ambient Temperature Range (°C)
67554C	BLS/ED/35W/CMH	44	0.19	0.95	<10%	A2	75	-20~55
67555C	BLS/ED/70W/CMH	80	0.35	0.95	<10%	A2	75	-20~50

Product Code	Description	Lamp Type	Lamp Wattage	Lamp Quantity	Voltage/Frequency	Dimensions (mm)			Carton Quantity (PCS)	Unit Weight (g)
						L	W	H		
67554C	BLS/ED/35W/CMH	CMH 35W	35W	1	220-240V/50-60Hz	110	75	32	10	300
67555C	BLS/ED/70W/CMH	CMH 70W	70W	1	220-240V/50-60Hz	110	75	32	10	310

Case

Dimension (mm)

Wiring Diagram



NOTE
Terminal Wire
Cross-section: 0.75 to 1.5 mm²
Strip Length: 8.5-9.5 mm

High Performance T5 Electronic Ballast



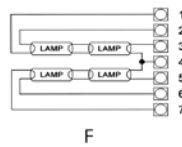
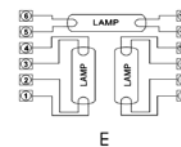
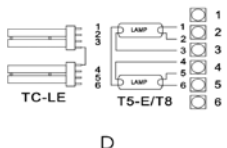
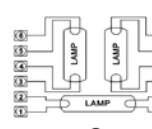
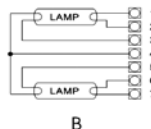
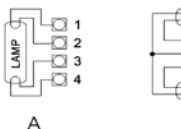
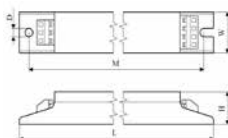
Product Code	Description	Start Type	Input Power (W)	Input Current (A)	Power Factor (PF)	THD	EEI	Tc Point (°C)	Temperature Range (°C)	Wiring Diagram
61386	ELB114S	Preheat Start	16.5	0.07	0.98	< 10%	A2	70	-15~50	A
61387	ELB214S	Preheat Start	31.5	0.14	0.98	< 10%	A2	70	-15~50	B
61395	ELB314S	Preheat Start	48	0.21	0.98	< 10%	A2	70	-15~50	C
61396	ELB414S	Preheat Start	62	0.27	0.98	< 10%	A2	70	-15~50	F
61394	ELB121S	Preheat Start	24	0.11	0.98	< 10%	A2	70	-15~50	A
61388	ELB128S	Preheat Start	31.5	0.14	0.98	< 10%	A2	70	-15~50	A
61389	ELB228S	Preheat Start	62	0.27	0.98	< 10%	A2	70	-15~50	B
61390	ELB328S	Program Start	92	0.41	0.98	< 10%	A2	70	-15~50	E
61391	ELB135S	Preheat Start	38	0.17	0.98	< 10%	A2	70	-15~50	A
61392	ELB235S	Program Start	77	0.34	0.98	< 10%	A2	70	-15~50	B
62107	ELB149S	Preheat Start	53	0.23	0.98	< 10%	A2	70	-15~50	A
62108	ELB249S	Program Start	106	0.46	0.98	< 10%	A2	70	-15~50	D
61393	ELB154S	Preheat Start	57	0.25	0.98	< 10%	A2	70	-15~50	A
61385	ELB254/258S	Program Start	105	0.45	0.98	< 10%	A2	70	-15~50	D

Product Code	Description	Lamp Type	Lamp Wattage	Lamp Quantity	Voltage/Frequency	Dimensions (mm)					Carton Quantity (PCS)	Unit Weight (g)
						L	M	W	H	D		
61386	ELB114S	T5	14W	1	220-240V/50-60Hz	288	276.5	30	27	4.5	30	250
61387	ELB214S	T5	14W	2	220-240V/50-60Hz	288	276.5	30	27	4.5	30	250
61395	ELB314S	T5	14W	3	220-240V/50-60Hz	360	348.5	30	27	4.5	30	350
61396	ELB414S	T5	14W	4	220-240V/50-60Hz	288	276.5	30	27	4.5	30	290
61394	ELB121S	T5	21W	1	220-240V/50-60Hz	288	276.5	30	27	4.5	30	250
61388	ELB128S	T5	28W	1	220-240V/50-60Hz	288	276.5	30	27	4.5	30	250
61389	ELB228S	T5	28W	2	220-240V/50-60Hz	288	276.5	30	27	4.5	30	290
61390	ELB328S	T5	28W	3	220-240V/50-60Hz	425	413.5	30	26	4.5	20	420
61391	ELB135S	T5	35W	1	220-240V/50-60Hz	288	276.5	30	27	4.5	30	250
61392	ELB235S	T5	35W	2	220-240V/50-60Hz	359	347.5	30	21	4.5	30	320
62107	ELB149S	T5	49W	1	220-240V/50-60Hz	288	276.5	30	27	4.5	30	280
62108	ELB249S	T5	49W	2	220-240V/50-60Hz	359	347.5	30	27	4.5	30	340
61393	ELB154S	T5	54W	1	220-240V/50-60Hz	288	276.5	30	27	4.5	30	250
61385	ELB254/258S	T5	54/58W*	2	220-240V/50-60Hz	359	347.5	30	27	4.5	30	330

* Work with both T5 54W and T8 58W lamp

Dimension (mm)

Wiring Diagram



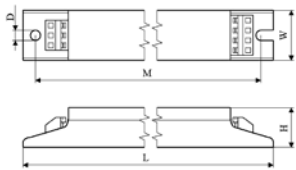
Economic Electronic T5 Ballast



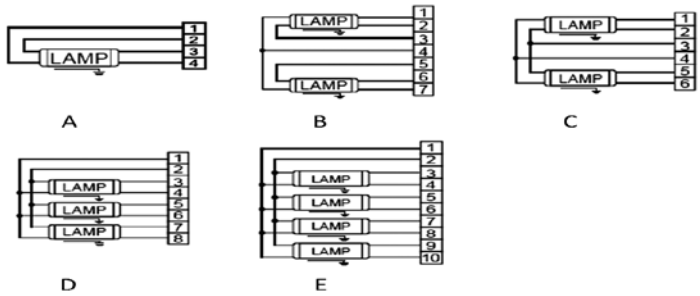
Product Code	Description	Start Type	Input Power (W)	Input Current (A)	Power Factor (PF)	THD	EEL	Tc Point (°C)	Ambient Temperature Range (°C)	Wiring Diagram
62623	ELB114E	Instant Start	15.5	0.07	0.98	< 15%	A3	70	-10~50	A
62624	ELB214E	Instant Start	32	0.14	0.98	< 15%	A3	70	-10~50	B
62625	ELB314E	Instant Start	46	0.21	0.98	< 15%	A3	70	-10~50	D
62626	ELB414E	Instant Start	64	0.29	0.98	< 15%	A3	70	-10~50	E
62627	ELB121E	Instant Start	24	0.11	0.98	< 15%	A3	70	-10~50	A
62630	ELB224E	Instant Start	52	0.23	0.98	< 15%	A3	70	-10~50	C
62628	ELB128E	Instant Start	31	0.14	0.98	< 15%	A3	70	-10~50	A
62629	ELB228E	Instant Start	61	0.27	0.98	< 15%	A3	70	-10~50	B

Product Code	Description	Lamp Type	Lamp Wattage	Number of Lamps	Voltage/Frequency	Dimensions (mm)					Carton Quantity (PCS)	Unit Weight (g)
						L	M	W	H	D		
62623	ELB114E	T5	14W	1	220-240V/50~60Hz	265	254	30.5	29	4.5	20	260
62624	ELB214E	T5	14W	2	220-240V/50~60Hz	280	270	38	29	4.5	20	350
62625	ELB314E	T5	14W	3	220-240V/50~60Hz	280	270	38	29	4.5	20	350
62626	ELB414E	T5	14W	4	220-240V/50~60Hz	280	270	42	29	4.5	20	380
62627	ELB121E	T5	21W	1	220-240V/50~60Hz	264	254	30.5	29	4.5	20	260
62630	ELB224E	T5	24W	2	220-240V/50~60Hz	280	270	38	29	4.5	20	350
62628	ELB128E	T5	28W	1	220-240V/50~60Hz	264	254	30.5	29	4.5	20	260
62629	ELB228E	T5	28W	2	220-240V/50~60Hz	362	352	30.5	30	4.5	20	320

Dimension (mm)



Wiring Diagram



High Performance T8/T10 Electronic Ballast



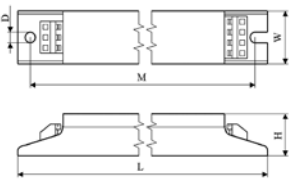
Product Code	Description	Start Type	Input Power (W)	Input Current (A)	Power Factor (PF)	THD	EEL	Tc Point (°C)	Temperature Range (°C)	Wiring Diagram
61378	ELB118S	Preheat Start	18	0.08	0.98	< 10%	A3	70	-10~50	A
61379	ELB218S	Preheat Start	36	0.16	0.98	< 10%	A3	70	-10~50	B
61380	ELB318S	Instant Start	54	0.24	0.98	< 10%	A3	70	-10~50	C
61381	ELB136S	Preheat Start	36	0.16	0.98	< 10%	A3	70	-10~50	A
61382	ELB236S	Preheat Start	72	0.32	0.98	< 10%	A3	70	-10~50	B
61383	ELB336S	Instant Start	108	0.48	0.98	< 10%	A3	70	-10~50	C
61384	ELB158S	Preheat Start	57	0.26	0.98	< 10%	A3	70	-10~50	A
61385	ELB254/258S	Program Start	105	0.45	0.98	< 10%	A3	70	-10~50	D

Product Code	Description	Lamp Type	Lamp Wattage*	Lamp Quantity	Voltage/Frequency	Dimensions (mm)					Carton Quantity (PCS)	Unit Weight (g)
						L	M	W	H	D		
61378	ELB118S	T8/T10	18W	1	220-240V/50~60Hz	251	239.5	30	27	4.5	30	200
61379	ELB218S	T8/T10	18W	2	220-240V/50~60Hz	288	276.5	30	27	4.5	30	250
61380	ELB318S	T8/T10	18W	3	220-240V/50~60Hz	360	348.5	30	27	4.5	30	330
61381	ELB136S	T8/T10	36W	1	220-240V/50~60Hz	251	239.5	30	27	4.5	30	200
61382	ELB236S	T8/T10	36W	2	220-240V/50~60Hz	288	276.5	30	27	4.5	30	250
61383	ELB336S	T8/T10	36W	3	220-240V/50~60Hz	360	348.5	30	27	4.5	30	380
61384	ELB158S	T8/T10	58W	1	220-240V/50~60Hz	251	239.5	30	27	4.5	30	200
61385	ELB254/258S	T8/T10	54/58W**	2	220-240V/50~60Hz	359	347.5	30	27	4.5	30	330

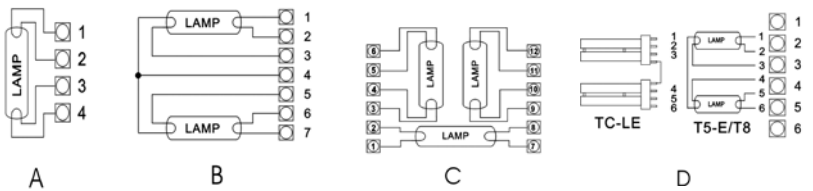
*T8 lamp wattage

**Work with both T5 54W and T8 58W lamp

Dimension (mm)



Wiring Diagram



Ballast

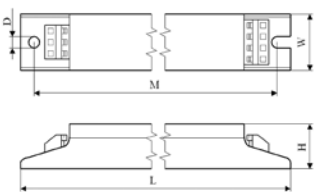
Economic Electronic Ballast For T8/T10 LFL



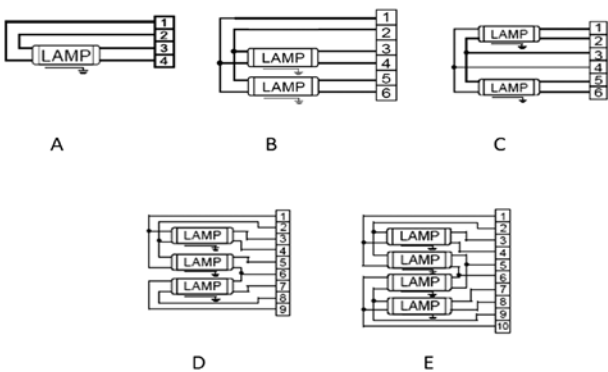
Product Code	Description	Start Type	Input Power (W)	Input Current (A)	Power Factor (PF)	THD	EEL	Tc Point (°C)	Temperature Range (°C)	Wiring Diagram
62640	ELB118E	Instant Start	18.5	0.08	0.98	< 15%	A3	70	-10~50	A
62641	ELB218E	Instant Start	36	0.16	0.98	< 15%	A3	70	-10~50	B
62642	ELB318E	Instant Start	54	0.24	0.98	< 15%	A3	70	-10~50	D
62643	ELB418E	Instant Start	70	0.31	0.98	< 15%	A3	70	-10~50	E
62644	ELB136E	Instant Start	36	0.16	0.98	< 15%	A3	70	-10~50	A
62645	ELB236E	Instant Start	72	0.32	0.98	< 15%	A3	70	-10~50	C

Product Code	Description	Lamp Type	Lamp Wattage	Lamp Quantity	Voltage/Frequency	Dimensions (mm)					Carton Quantity (PCS)	Unit Weight (g)
						L	M	W	H	D		
62640	ELB118E	T8/T10	18W	1	220-240V/50-60Hz	264	254	30.5	29	4.5	20	260
62641	ELB218E	T8/T10	18W	2	220-240V/50-60Hz	264	254	30.5	29	4.5	20	260
62642	ELB318E	T8/T10	18W	3	220-240V/50-60Hz	280	270	38	29	4.5	20	350
62643	ELB418E	T8/T10	18W	4	220-240V/50-60Hz	280	270	42	29	4.5	20	380
62644	ELB136E	T8/T10	36W	1	220-240V/50-60Hz	264	254	30.5	29	4.5	20	230
62645	ELB236E	T8/T10	36W	2	220-240V/50-60Hz	280	270	38	29	4.5	20	295

Dimension (mm)



Wiring Diagram

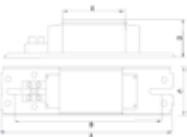


High Performance T8/T10 Electromagnetic Ballast



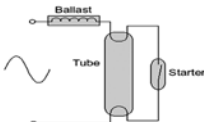
Product Code	Description	Voltage/Frequency	Lamp Type	Lamp Wattage	Power Factor	Capacitor (μF)	Max Loss (W)	Temp Rise (K)
76509	MB15/220V/50Hz	220V/50Hz	T8/T10	15W	0.33	4	8	55
76510	MB18/20/220V/50Hz	220V/50Hz	T8/T10	18/20W	0.33	4	8	55
76511	MB30/220V/50Hz	220V/50Hz	T8/T10	30W	0.45	4	9	55
76512	MB36/40/220V/50Hz	220V/50Hz	T8/T10	36/40W	0.51	4.7	9	55
76514	MB58/65/220V/50Hz	220V/50Hz	T8/T10	58/65W	0.51	6	11	55
76515	MB22/220V/50Hz	220V/50Hz	T8/T10	22W	0.33	4	9	55
76516	MB32/220V/50Hz	220V/50Hz	T8/T10	32W	0.45	5	9	55

Dimension (mm)



Product Code	Description	Max Operating Temp (°C)	Dimensions (mm)					Carton Quantity (PCS)	Carton Weight (Kg)	Net Weight (Kg)
			A	B	C	D	E			
76509	MB15/220V/50Hz	130	150	130	41	26.5	55	20	10.5	10.2
76510	MB18/20/220V/50Hz	130	150	130	41	26.5	55	20	10.22	9.92
76511	MB30/220V/50Hz	130	150	130	41	26.5	60	20	11.12	10.82
76512	MB36/40/220V/50Hz	130	150	130	41	26.5	65	20	12.08	11.78
76514	MB58/65/220V/50Hz	130	190	170	41	26.5	110	20	18.82	18.52
76515	MB22/220V/50Hz	130	150	130	41	26.5	62	20	11.38	11.08
76516	MB32/220V/50Hz	130	150	130	41	26.5	65	20	11.94	11.64

Wiring Diagram



Standard Performance T8/T10 Electromagnetic Ballast

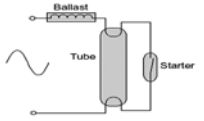
Product Code	Description	Voltage/Frequency	Lamp Type	Lamp Wattage	Power Factor	Capacitor (μF)	Max Loss (W)	Temp Rise (K)
76517	EMB18/20/220V/50Hz	220V/50Hz	T8/T10	18/20W	0.33	4	8	60
76518	EMB30/220V/50Hz	220V/50Hz	T8/T10	30W	0.45	4	8.5	60
76519	EMB36/40/220V/50Hz	220V/50Hz	T8/T10	36/40W	0.51	4.7	9	60
76520	EMB22/220V/50Hz	220V/50Hz	T8/T10	22W	0.33	4	9	60
76521	EMB32/220V/50Hz	220V/50Hz	T8/T10	32W	0.45	4.4	9	60

Dimension (mm)



Product Code	Description	Max Operating Temp (°C)	Dimensions (mm)					Carton Quantity (PCS)	Carton Weight (Kg)	Net Weight (Kg)
			A	B	C	D	E			
76517	EMB18/20/220V/50Hz	120	150	130	41	26.5	55	20	10.32	10.02
76518	EMB30/220V/50Hz	120	150	130	41	26.5	60	20	11.04	10.74
76519	EMB36/40/220V/50Hz	120	150	130	41	26.5	65	20	12.02	11.72
76520	EMB22/220V/50Hz	120	150	130	41	26.5	62	20	11.4	11.1
76521	EMB32/220V/50Hz	120	150	130	41	26.5	65	20	11.9	11.6

Wiring Diagram



Ballast

Starter



Product Code	Description	Voltage (V)	Wattage (W)	Case	Carton Quantity (PCS)	Carton Weight (Kg)	Avg. cycle life (switching cycles)	Package
24975	Starter FU 10 (155/500 4-65W 220-240V)	220-240	4-65	PP	1500	12	8000	color
81024	FU10 155/500 4W-65W 220-240V	220-240	4-65	PP	1500	12	8000	color
81850	STARTERS FU10 155/500 4-65W 220-240V PC	220-240	4-65	PC	1500	12	8000	Industrial
89698	STARTERS FU10 155/200 4-22W 220-240V Series RoHS	220-240	4-22	PC	1500	12	8000	color
89699	STARTERS FU10 155/200 4-22W 220-240V Series	220-240	4-22	PC	2000	15	8000	Industrial

Lamp type	Lamp Wattage (W)	Nominal Dimension (mm)
155/500 (4-65W) Starter suitable for lamps		

T5 Linear	4	16*150
	6	16*225
	8	16*300
	13	16*525
T8 Linear	15	26*450
	18	26*600
	30	26*900
	36	26*1200
	58	26*1500
T10 Linear	20	32*600
	40	32*1200
	20	38*600
T12 Linear	40	38*1200
	65	38*1500
	22	28*210
Circular	32	28*298
	40	28*400

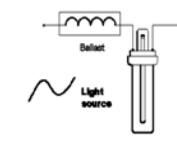
Lamp type	Lamp Wattage (W)	Nominal Dimension (mm)
155/500 (4-22W) Starter suitable for lamps		

T5 Linear	4	16*150
	6	16*225
	8	16*300
T8 Linear	15	26*450
	18	26*600
T10 Linear	20	32*600
T12 Linear	20	38*600
Circular	22	28*210

Dimension (mm)



Wiring Diagram



Plug-in CFL Electromagnetic Ballast



Product Code	Description	Voltage/Frequency	Lamp Type	Lamp Wattage	Power Factor	Capacitor (μF)	Loss (W)	Temp Rise (K)
76522	EMB10/220V/50Hz	220V/50Hz	Plug-in CFL 2Pin	10W	0.35	2	5	60
76523	EMB13/220V/50Hz	220V/50Hz	Plug-in CFL 2Pin	13W	0.48	2	6	60
76524	EMB18/220V/50Hz	220V/50Hz	Plug-in CFL 2Pin	18W	0.40	2	7	60

Product Code	Description	Max Operating Temp(°C)	Dimensions (mm)					Carton Quantity (PCS)	Carton Weight (Kg)	Net Weight (Kg)
			A	B	C	D	E			
76522	EMB10/220V/50Hz	120	86	66	41	26.5	33	40	13.26	12.96
76523	EMB13/220V/50Hz	120	86	66	41	26.5	33	40	13.22	12.92
76524	EMB18/220V/50Hz	120	86	66	41	26.5	33	40	16.5	16.2

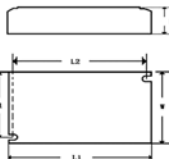
Plug-in CFL Electronic Ballast



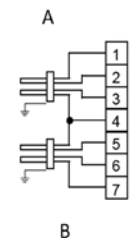
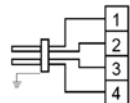
Product Code	Description	Start Type	Input Power (W)	Input Current (A)	Power Factor (PF)	THD	EEL	Tc Point (°C)	Temperature Range (°C)	Wiring Diagram
62660	CEB110E	Instant Start	11	0.05	0.98	< 15%	A3	70	-10~50	A
62662	CEB111E	Instant Start	12.5	0.06	0.98	< 15%	A3	70	-10~50	A
62663	CEB211E	Instant Start	24	0.11	0.98	< 15%	A3	70	-10~50	B
79050	CEB113E	Instant Start	14	0.07	0.98	< 15%	A3	70	-10~50	A
79051	CEB213E	Instant Start	28	0.13	0.98	< 15%	A3	70	-10~50	B
79052	CEB118E	Instant Start	18	0.09	0.98	< 15%	A3	70	-10~50	A
79053	CEB218E	Instant Start	36	0.17	0.98	< 15%	A3	70	-10~50	B
62661	CEB210E	Instant Start	23	0.11	0.98	< 15%	A3	70	-10~50	B
62666	CEB126E	Instant Start	27	0.13	0.98	< 15%	A3	70	-10~50	A
62667	CEB226E	Instant Start	52	0.24	0.98	< 15%	A3	70	-10~50	B
62668	CEB132E	Instant Start	32	0.15	0.98	< 15%	A3	70	-10~50	A
62669	CEB232E	Instant Start	64	0.3	0.98	< 15%	A3	70	-10~50	B

Product Code	Description	Lamp Type	Lamp Wattage	Lamp Quantity	Voltage/Frequency	Dimensions (mm)					Carton Quantity (PCS)	Unit Weight (g)
						L1	L2	W	W1	H		
62660	CEB110E	Plug-in CFL 4pin	10W	1	220V/50-60Hz	103	91	80	74	33	30	140
62662	CEB111E	Plug-in CFL 4pin	11W	1	220V/50-60Hz	103	91	80	74	33	30	140
62663	CEB211E	Plug-in CFL 4pin	11W	2	220V/50-60Hz	103	91	80	74	33	30	180
79050	CEB113E	Plug-in CFL 4pin	13W	1	220V/50-60Hz	103	91	80	74	33	30	150
79051	CEB213E	Plug-in CFL 4pin	13W	2	220V/50-60Hz	103	91	80	74	33	30	150
79052	CEB118E	Plug-in CFL 4pin	18W	1	220V/50-60Hz	103	91	80	74	33	30	140
79053	CEB218E	Plug-in CFL 4pin	18W	2	220V/50-60Hz	103	91	80	74	33	30	160
62661	CEB210E	Plug-in CFL 4pin	20W	2	220V/50-60Hz	103	91	80	74	33	20	180
62666	CEB126E	Plug-in CFL 4pin	26W	1	220V/50-60Hz	103	91	80	74	33	30	150
62667	CEB226E	Plug-in CFL 4pin	26W	2	220V/50-60Hz	103	91	80	74	33	30	190
62668	CEB132E	Plug-in CFL 4pin	32W	1	220V/50-60Hz	103	91	80	74	33	30	135
62669	CEB232E	Plug-in CFL 4pin	32W	2	220V/50-60Hz	103	91	80	74	33	30	290

Dimension (mm)



Wiring Diagram



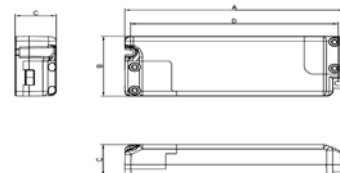
12V Electronic Transformer



Product Code	Description	Load Range (W)	THD	Input Voltage Range for Safety Operation (V)	Input Power (W)	Max Power loss (W)	Power Factor	Operating Frequency (KHz)	Dimmer	Dimming range
65631	SET60LV	20-60	< 15%	176-264	58.5	4	0.97	40-55	Trailing edge	20-60W
65632	SET60LTD	20-60	< 15%	176-264	58.5	4	0.97	40-55	Trailing&Leading edge	20-60W

Product Code	Description	Lamp Type	Lamp Wattage (W)	Voltage/Frequency	Dimensions (mm)				Carton Quantity (PCS)	Unit Weight (g)
					A	B	C	D		
65631	SET60LV	Halogen	20W-60W	220V-240V 50/60Hz	109	40	20.5	103.6	50	76
65632	SET60LTD	Halogen	20W-60W	220V-240V 50/60Hz	109	40	20.5	103.6	126	76

Dimension (mm)



Wiring Diagram



Max distance between transformer and the lamp is: 2m
Terminal wire cross section: 0.75-1.5mm²

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19636	M251/FTC/CG	15
19625	M262/FTD/CG	15
19627	M266/FTF/CG	15
77900	Q20MR16HIR/CCG10	15
77901	Q20MR16HIR/CCG24	15
77902	Q20MR16HIR/CCG36	15
79584	Q30MR16HIR/CCG10	15
79585	Q30MR16HIR/CCG24	15
79586	Q30MR16HIR/CCG36	15
77904	Q35MR16HIR/CCG10	15
77905	Q35MR16HIR/CCG24	15
77906	Q35MR16HIR/CCG36	15
77907	Q45MR16HIR/CCG10	15
77908	Q45MR16HIR/CCG24	15
77909	Q45MR16HIR/CCG36	15
77657	MR16 IR 20W 12V WFL	15
77658	MR16 IR 35W 12V WFL	15
20841	EYJ/CC	15
20840	EVC/CC	15
20858	ESX/CG	15
20857	BAB/CG	15
20864	FRB/CG	15
20860	FRG/CG	15
20859	FMW/CG	15
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71618	MR16 12V 50W 8D /open 5000 hours	16
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71620	MR16 12V 50W 36D /ENX /open 5000 hours	16
71621	MR16 12V 50W 60D /FNV /open 5000 hours	16
71616	MR16 12V 20W 8D /CG 5000 hours	16
71617	MR16 12V 20W 36D /BAB /CG 5000 hours	16
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89685	Q35MR16/FL/CG	17
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41923	AR111 100W12V WFL	17
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25154	AR111 50W 12V FL	17
25155	AR111 75W 12V SP	17
25156	AR111 75W 12V FL	17
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76208	K9 C200W 230V R7S	19
76207	K1 C330W 230V R7S	19
76530	K12 C100W 240V R7S	19
76529	K11 C130W 240V R7S	19
76528	K9 C200W 240V R7S	19
76527	K1 C330W 240V R7S	19
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98399	20W HALO C CL E14 240V	22
98392	30W HALO C CL E14 240V	22
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98379	30W HALO S CL B22 240V	22
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24877E	FLE23W/QBX/865/E27	54	88698	FLE9TBX/T3/840/E27	55	30433EP	FLE8HLX/865E27/T2	57	85940	FLE14HLX/827/B22/T3	59	65037E	FLE9HLX/827/E14/T3	60	61015E	FLE9AG/T2/865/B22	62
24878E	FLE23W/QBX/827/E27	54	88703	FLE9TBX/T3/865/E14	55	47738EP	FLE8HLX/827/E14/T2	57	85942	FLE14HLX/827/E27/T3	59	65038E	FLE9HLX/865/E14/T3	60	61016E	FLE11AG/T2/830/B22	62
11305ET	FLE9DBX/827/E27/6k	54	88701	FLE9TBX/T3/865/E27	55	47740EP	FLE8HLX/865/E14/T2	57	74709	FLE14HLX/827/B22/T3 BX2	59	78180T	FLE9HLX/827/T2/T3 220-240V	60	61017E	FLE11AG/T2/840/B22	62
11321ET	FLE9DBX/864/E27/6K	54	78690	FLE11TBX/T3/827/E14	55	30472EP	FLE12HLX/827/E27/T2	57	74710	FLE14HLX/827/E27/T3 BX2	59	78181T	FLE9HLX/865/E27/T3 220-240V	60	61018E	FLE11AG/T2/865/B22	62
11324ET	FLE11DBX/827/E27/6K	54	72689	FLE11TBX/T3/827/E27	55	30474EP	FLE12HLX/865/E27/T2	57	90147	FLE14HLX/840/E27/T3	59	78182T	FLE14HLX/827/E27/T3 220-240V	60	61019E	FLE15AG/T2/830/B22	62
11328ET	FLE11DBX/865/E27/6K	54	72690	FLE11TBX/T3/827/B22	55	47742EP	FLE12HLX/827/E14/T2	57	90148	FLE14HLX/840/B22/T3	59	78183T	FLE14HLX/865/E27/T3 220-240V	60	61020E	FLE15AG/T2/840/B22	62
11332ET	FLE15TBX/827/E27/6k	54	88709	FLE11TBX/T3/840/E14	55	47755EP	FLE12HLX/865/E14/T2	57	74715	FLE14HLX/840/B22/T3 BX2	59	78184T	FLE20HLX/827/E27/T3 220-240V	60	61021E	FLE15AG/T2/865/B22	62
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11336ET	FLE20TBX/827/E27	54	75730	FLE11TBX/T3/865/E27	55	71040EN	FLE15HLX/840/T2/E27	57	85956	FLE20HLX/827/B22/T3	59	78186T	FLE23HLX/827/E27/T3 220-240V	60	61023E	FLE20AG/T3/840/B22	62
11342ET	FLE20TBX/865/E27	54	72688	FLE15TBX/T3/827/E27	55	71041EN	FLE15HLX/865/T2/E27	57	85966	FLE23HLX/865/E27/T3	59	78187T	FLE23HLX/865/E27/T3 220-240V	60	61024E	FLE20AG/T3/865/B22	62
95600ET	FLE23QBX/827/E27	54	88713	FLE15TBX/T3/827/B22	55	71042EN	FLE20HLX/827/T2/E27	75	74711	FLE20HLX/827/B22/T3 BX2	59	63406	FLE10HLX/T3/840/220-240V/E27/6H	60	61001T	FLE9AG/T2/830/E27	62
95602ET	FLE23QBX/865/E27	54	88714	FLE15TBX/T3/840/E27	55	71043EN	FLE20HLX/840/T2/E27	57	74712	FLE20HLX/827/E27/T3 BX2	59	63407	FLE10HLX/T3/840/220-240V/E14/6H	60	61002T	FLE9AG/T2/840/E27	62
78168E	FLE5DBX/827/E27/T3 220-240V	54	88716	FLE15TBX/T3/865/E27	56	71044EN	FLE20HLX/865/T2/E27	57	90145	FLE20HLX/840/E27/T3	59	63413	FLE14HLX/T3/827/220-240V/E27/6H	60	61003T	FLE9AG/T2/865/E27	62
78169E	FLE5DBX/865/E27/T3 220-240V	54	88718	FLE20TBX/T3/827/E27	56	30431EN	FLE8HLX/827/E27/T2	57	90146	FLE20HLX/840/B22/T3	59	63414	FLE14HLX/T3/840/220-240V/E27/6H	60	61004T	FLE11AG/T2/830/E27	62
78170E	FLE8DBX/827/E27/T3 220-240V	54	88719	FLE20TBX/T3/827/B22	56	47375EN	FLE8HLX/840/E27/T2	57	74717	FLE20HLX/840/B22/T3 BX2	59	63428	FLE14HLX/T3/865/220-240V/E27/6H	60	61005T	FLE11AG/T2/840/E27	62
78171E	FLE8DBX/865/E27/T3 220-240V	54	88720	FLE20TBX/T3/840/E27	56	30433EN	FLE8HLX/865/E27/T2	57	74718	FLE20HLX/840/E27/T3 BX2	59	63429	FLE18HLX/T3/827/220-240V/E27/6H	60	61006T	FLE11AG/T2/865/E27	62
78172E	FLE11DBX/827/E27/T3 220-240V	54	88722	FLE20TBX/T3/865/E27	56	47738EN	FLE8HLX/827/E14/T2	57	76598	FLE23HLX/827/B22/T2 BX2	59	63430	FLE18HLX/T3/840/220-240V/E27/6H	60	61007T	FLE15AG/T2/840/E27	62
78173E	FLE11DBX/865/E27/T3 220-240V	54	88723	FLE20TBX/T3/865/B22	56	47382EN	FLE8HLX/840/E14/T2	57	76599	FLE23HLX/827/E27/T2 BX2	59	63431	FLE18HLX/T3/865/220-240V/E27/6H	60	61008T	FLE15AG/T2/840/E27	62
78174E	FLE14TBX/827/E27/T4 220-240V	54	75039	FLE23QBX/T3/827/B22	56	47740EN	FLE8HLX/865/E14/T2	57	76600	FLE23HLX/840/B22/T2 BX2	59	63480	FLE23HLX/T3/827/220-240V/E27/6H	60	61009T	FLE15AG/T2/865/E27	62
78175E	FLE14TBX/865/E27/T4 220-240V	54	75268	FLE23QBX/T3/827/E27	56	30472EN	FLE23HLX/827/E27/T2	57	76601	FLE23HLX/840/E27/T2 BX2	59	63481	FLE20AG/T3/840/220-240V/E27/6H	60	61010T	FLE20AG/T3/830/E27	62
78176E	FLE20TBX/827/E27/T4 220-240V	54	97000	FLE23QBX/T3/840/E27	56	47389EN	FLE12HLX/840/E27/T2	57	81262	FLE14HLX/827/E27/T3 220-240V	59	63507	FLE23HLX/T3/865/220-240V/E27/6H	60	61011T	FLE20AG/T3/840/E27	62
78177E	FLE20TBX/865/E27/T4 220-240V	54	97006	FLE23QBX/T3/865/E27	56	30474EN	FLE12HLX/865/E27/T2	57	81263	FLE14HLX/865/E27/T3 220-240V	59	30606o	FLE13HLX/827/B22/DIM BP1	61	61012T	FLE20AG/T3/865/E27	62
78178E	FLE23TBX/827/E27/T4 220-240V	54	89514	FLE10HLX/827/E27/XL	56	47742EN	FLE12HLX/827/E14/T2	57	81264	FLE20HLX/827/E27/T3 220-240V	59	74674	FLE13HLX/827/E27/DIM BP1	61	61013T	FLE9AG/T2/830/B22	62
78179E	FLE23TBX/865/E27/T4 220-240V	54	89517	FLE10HLX/827/B22/XL	56	47392EN	FLE12HLX/865/E27/T2	57	81265	FLE13HLX/865/E27/T3 220-240V	59	74675	FLE13HLX/865/B22/DIM	61	61014T	FLE9AG/T2/840/B22	62
64556E	FLE6DBX/827/E27/T3	54	89520	FLE15HLX/827/E27/XL	56	47755EN	FLE12HLX/865/E14/T2	57	81266	FLE24HLX/827/E27/T3 220-240V	59	74676	FLE13HLX/865/E27/DIM	61	61015T	FLE9AG/T2/865/B22	62
64557E	FLE6DBX/865/E27/T3	54	89523	FLE15HLX/827/B22/XL	56	30431ET	FLE8HLX/827/E27/T2	57	81267	FLE24HLX/865/E27/T3 220-240V	59	30608o	FLE20HLX/827/E27/DIM BP1	61	61016T	FLE11AG/T2/830/B22	62
64558E	FLE8DBX/827/E27/T3	54	89526	FLE20HLX/827/E27/XL	56	30433ET	FLE8HLX/865/E27/T2	57	24172E	FLE14HLX/827/T3	59	30616A	FLE20HLX/827/B22/DIM BP1	61	61017T	FLE11AG/T2/840/B22	62
64559E	FLE8DBX/865/E27/T3	54	89529	FLE20HLX/827/B22/XL	56	47738ET	FLE8HLX/827/E14/T2	57	24173E	FLE14HLX/865/E27/T3	59	30544A	FLE20HLX/865/B22/DIM	61	61018T	FLE11AG/T2/865/B22	62
64560E	FLE11DBX/827/E27/T3	54	74658	FLE8HLX/827/B15/T2	56	47740ET	FLE8HLX/865/E14/T2	57	24174E	FLE20HLX/827/T3	59	30540A	FLE20HLX/865/E27/DIM	61	61019T	FLE15AG/T2/830/B22	62
64561E	FLE11DBX/865/E27/T3	54	74659	FLE8HLX/827/B22/T2	56	30472ET	FLE12HLX/827/E27/T2	57	24175E	FLE20HLX/865/E27/T3	59	30493N	FLE13HLX/827/E27/T3DIM*	61	61020T	FLE15AG/T2/840/B22	62
64562E	FLE14TBX/827/E27/T3	54	74660	FLE8HLX/827/E14/T2	56	30474ET	FLE12HLX/865/E27/T2	57	24176E	FLE24HLX/865/E27/T3	59	30494N	FLE13HLX/865/E27/T3DIM*	61	61021T	FLE15AG/T2/865/B22	62
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64564E	FLE20TBX/827/E27/T3	54	47375	FLE8HLX/840/E27/T2	56	47755ET	FLE12HLX/865/E14/T2	57	24172EN	FLE14HLX/827/E27/T3 220-240V	59	30540N	FLE20HLX/865/E27/T3DIM*	61	61023T	FLE20AG/T3/840/B22	62
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64566E	FLE23TBX/827/E27/T3	54	47385	FLE8HLX/840/B22/T2	56	71040T	FLE15HLX/840/E27/T2	57	24173EN	FLE14HLX/865/E27/T3 220-240V	59	95495EN	FLE60HLX/864/E27/220-240V	61	88852A	FLE5CDL/827/E27/T2	63
64567E	FLE23TBX/865/E27/T3	54	47386	FLE8HLX/840/B15/T2	56	71041T	FLE15HLX/865/E27/T2	57	24174EN	FLE20HLX/827/E27/T3 220-240V	59	24666E	FLE45HLX/864/E27	61	88853A	FLE5CDL/827/B22/T2	63
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25618	F40T12/BLB	96	99948	CP88 PAR64/MFL	98	88455	CP23	100	88482	P2/27 FEX	101	88833	F36/T8/BLB	110	72988	F54T5/850//ECO/MM/CVG	112
88832	F18T8/BLB	96	39411	500/PAR64/MFL	98	88459	CP24	100	88481	P2/27 FEX	101	34747	F20W/T12/BLB	110	72989	F54T5/865//ECO/MM/CVG	112
88833	F36T8/BLB	96	39414	500/PAR64/W FL	98	88515	T11 Q1000T8/CL	100	88629	FEY	101	25618	F40W/T12/BLB	110	44212	F15T8 F&SA	112
41673	FCX	96	88425	CP60 EXC SUPER	98	88456	T11	100	19697	P2/10	101	16941	F15WBL 350	110	16987 /44230	F15T8 SW	112
14553	25PAR36	96	88551	CP60 EXC SUPER	98	88457	T19 FWR	100	19698	P2/10	101	72939	F15WBLCVG	110	44239	F15T8 REP	112
14555	25PAR36/WFL	96	88535	CP61 EXD SUPER	98	88472	CP70 FVA	100	20249	P2/7 EKM	101	42935	F9BX BL G23	110	44213	F18T8 F&SA	112
24425	4405	96	88550	CP61 EXD SUPER	98	88471	CP70 FVA	100	20253	P2/7 EKM	101	42936	F11BX BL G23	110	44231	F18T8 SW	112
24663	4511	96	88549	CP62 EXE SUPER	98	88454	T29 FWT	100	19695	P2/12	101	42937	F13BX BL GX23	110	44240	F18T8 REP	112
15133	H4515	96	88536	CP62 EXE SUPER	98	88453	CP90	100	19696	P2/12	101	42939	F24BX BL 2G11	110	16968	F25T8 F&SA	112
24673	4515	96	88511	CP95	98	96735	CP43 FTL	100	37346	DZA	101	42940	F36BX BL 2G11	110	16991	F25T8 SW	112
43576	H7604	96	88510	CP95	98	88533	CP43 FTL	100	18234	BRL A1/220	101	42941	F55BX BL 2G11	110	16969 /44218	F30T8 F&SA	112
12892	50PAR36/VNSP	96	88480	EXG/PAR64/WFL	98	88503	CP79	100	14876	FCR A1/215	101	15872	G4T5	110	16992 /44235	F30T8 SW	112
16540	50PAR36/NSP	96	88479	EXG/PAR64/WFL	98	88439	CP110 OC1200	100	18235	BRJ/EVB A1/234	101	15873	G6T5	110	44241	F30T8 REP	112
16541	50PAR36/WFL	96	39409	500PAR64/MFL	98	88509	EGN	100	37695	DZE/FDS A1/262	101	11077	G8T5	110	16970 /44219	F36T8 F&SA	112
19880	50PAR36/WFL/H	96	13233	FFN	98	88531	CP39 FKH	100	13598	FCS A1/216	101	29495	G11T5	110	16995 /44236	F36T8 SW	112
16542	50PAR36/VWFL	96	13229	FFP	98	88622	EGT	100	14874	EHJ A1/223	101	16494	G16T5	110	44242	F36T8 REP	112
24627	4502	96	13228	FFR	98	88458	CP40 FKJ	100	18241	FNT	101	15874	G36T5	110	44220	F38T8 F&SA	112
24640	4505	96	13227	FFS	98	88538	CP40 FKJ	100	41164	EVD A1/239	101	15864	G64T5	110	16984	F38T8 FA	112
24650	4509	96	43497	Q1000PAR64/NSP	98	88508	CP93	100	26895	DYR A1/233	101	29504	G64T5/4P/SE	110	16999	F38T8 SW	112
41503	4509X	96	43498	Q1000PAR64/MFL	98	88507	CP92	100	88484	HX185	101	11078	G15T8	111	21788	QH500T3/CL	113
24887	4593	96	43499	Q1000PAR64/WFL	98	88506	CP92	100	88492	A1/248	101	11082	G25T8	111	21787	QH500T3/CL/7	113
24891	4594	96	88478	HPL 575	98	88505	CP91	100	88491	A1/249	101	11080	G30T8	111	22355	QH1000T3/CL	113
24964	4626	96	88477	HPL 575	98	88617	EGE	100	88460	A1/244	101	15875	G55T8HO	111	22357	QH1000T3/CL	113
24966	4627	96	88436	HPL 575-C	98	88546	BTM	100	34720	M29/ESA	102	40695	GBX5/UVC G23	111	21377	QH1MT3/CL/R/MS-235V	113
24867	4587	96	88438	HPL 575-C	98	88498	T17 FKf	100	34718	M30/ESB	102	40696	GBX9/UVC G23	111	22357	QH1000T3/CL	113
24898	4596	96	88476	HPL 575-X LL	98	88451	T28	100	34702	M32	102	40700	GBX11/UVC G23	111	22531	QH1200T3/CL	113
41667	DWE	96	88475	HPL 575-X LL	98	88497	T13 FKB	100	34676	M28/EVA	102	40703	GBX13/UVC GX23	111	22532	QH1200T3/CL/HT	113
41671	FBO	96	88434	HPL 575-C LL-X	98	88530	CP51 FKM	100	34768	M33	102	40704	GBX18/UVC/2G11	111	22691	QH1600T3/CL/7	113
43591	H7635	97	88435	HPL 575-C LL-X	98	88615	EGJ	100	88516	M36	102	40705	GBX36/UVC/2G11	111	22688	QH1600T3/CL	113
40822	4537-2	97	88474	HPL 750	98	88529	T14 FKD	100	88442	M38	102	40706	GBX55/UVC/2G11	111	22789	QH2M/T3/1CL/HT	113
24799	4553	97	88473	HPL 750	98	88499	FKE	100	78343	M38	102	72761	G15T8/CVG	111	15551	QH2M/T3/1CL/HT/VB	113
24859	4580	97	88437	HPL 750-C	98	88496	CP52 FKN	100	88468	M40	102	72762	G25T8/CVG	111	18668	QH2MT3/CL/VB	113
24862	4581	97	88428	HPL 750-C-XLL	98	88610	CYX	100	36902	G30T8/CVG	102	72763	QH2M/T3/CL/HT	111	22790	QH2M/T3/CL/HT	113
37706	Q4554	97	88430	HPL 750-X-LL	98	88489	CP41 FKK	100	43988	DDS	102	72764	G55T8/CVG	111	12716	QH2MT3/CL/HT/R	113
36271	Q4681	97	88429	HPL 750-X-LL	98	88488	CP41 FKK	100	43950	DED	102	17203	F18W/830CVG	111	22838	QH2500T3/CL	113
24768	4545	97	88624	EHD	99	88502	CP94	100	43537	DDL	102	17204	F18W/835CVG	111	10872	QH3650/CL/5	113
19024	120PAR56/MFL	97	88548	FLK	99	88874	HX48	100	38306	ELD/EJIN	102	17205	F18W/840CVG	111	22875	QH3800/CL	113
19025	120PAR56/WFL	97	88452	FLK-LL	99	88875	CP29	100	35200	EKE	102	17208	F36W/830CVG	111	22900	QH5M/T3/1CL/HT	113
20122	200PAR	97	88448	GKV	99	88876	CP29	100	29150	EJL A1/252	102	17202	F36W/835CVG	111	20092	HH 451 1500W RUBY 230-240V	113
20575	240PAR56/VNSP	97	88447	GKV	99	12036	CP83	100	37462	F36W/840CVG	102	17209	F36W/840CVG	111	20093	HH 804 2000W RUBY 230-240V	113
20577	240PAR56/WFL	97	88446	GKV/LL	99	12037	CP83	100	15377	ELC500	102	12403	F58W/830CVG	111	40723	QH 750W 230-240V Ruby Slim	113
23427	300PAR56/WFL	97	88445	GKV/LL	99	48771	Q12MT26/4CL	100	38686	ENH	102	12405	F58W/835CVG	111	42740	QH 1300W 230-240V Ruby Slim	113
20803	300PAR56/NSP	97	88450	FKR	99	48779	Q12MT26/4CL	100	38476	ELH	102	12407	F58W/840CVG	111	11478	EXL	114
20836	300PAR56/MFL	97	88627	EHF	99	48773	BCM-Q20MT324CL	100	32882	EJA	102	12423	F70W/835CVG	111	11482	EXM	114
20849	300PAR56/WFL	97	88626	EHG	99	48774	BCM-Q20MT324CL	100	41729	EPT	102	12424	F70W/840CVG	111	80583	Q6.6A45PK30d male	114
20853	300PAR56/NSP	97	88432	HX800	99	48777	Q24MT32/4CL	100	25475	ENL	102	71000	F24W/T5/830/ECO/CVG	112	88420	AF6/2 6.6A 45W	114
20852	300PAR56/MFL	97	88625	FEL	99	88880	CP105	101	41882	EPV	102	70998	F24W/T5/835/ECO/CVG	112	32917	Q65T2 1/2/1/CL	114
20854	300PAR56/WFL	97	88449	CP77 FEP	99	88877	CP30	101	42614	EPX	102	70997	F24W/T5/841/ECO/CVG	112	88417	AF 6/ST 6.6A 100W	114
18676	300PAR56/NSP	97	88443	CP81 FKW	99	88878	CP58	101	41874	ERV	102	70999	F24W/T5/850/ECO/CVG	112	80584	Q6.6A100PK30d male	114
18677	300PAR56/MFL	97	88433	CP81 FSL	99	88879	CP32	101	41705	ENX	102	70996	F24W/T5/865/ECO/CVG	112	80588	Q6.6A100PK30d female	114
18678	300PAR56/WFL	97	88444	CP81 FSK	99	88512	CP59	101	21613	FXL	102	70995	F39W/T5/830/ECO/CVG	112	80585	Q6.6A150PK30d male	114
43494	Q500PAR56/NSP	97	88467	CP82 FRG	99	19926	DKZ/DSE	101	25261	FLT	102	70994	F39W/T5/835/ECO/CVG	112	80589	Q6.6A150PK30d female	114
43495	Q500PAR56/MFL	97	88466	CP82 FRH	99	88500	T16	101	12097	EXY	102	70993	F39W/T5/841/ECO/CVG	112	80586	Q6.6A200PK30d male	114
43496	Q500PAR56/WFL	97	88464	CP82 FRJ	99	88532	CP53	101	70991	F39W/T5/850/ECO/CVG	112	70991	F39W/T5/850/ECO/CVG	112	80590	Q6.6A200PK30d female	114
40576	4552	98	88465	T18 GCW	99	30325	FAD	101	70990	F39W/T5/865/ECO/CVG	112	70990	F39W/T5/865/ECO/CVG	112	23857	Q6.6A/T4/5CL	114
40578	4559	98	88470	T25 GCW	99	36952	DXX	101	48433	F54T5/830/HO/ECO/CVG	112	48433	F54T5/830/HO/ECO/CVG	112	23860	Q6.6AT4/DCR	114
40579	Q4559	98	88469	T27 GCS	99	36953	DXX	101	48436	F54T5/835/HO/ECO/CVG	112	48436	F54T5/835/HO/ECO/CVG	112	33279	Q6.6A/PAR56/3	114
42552	Q4559X	98	88463	T26 GCS	99	30157	DXW	101	48458	F54T5/841/HO/ECO/CVG	112	48458	F54T5/841/HO/ECO/CVG	112	88413	AF7/2 6.6A 200W	114
73581	CP86 PAR64/VNSP	98	88462	CP89 FRK	99	30374	FBY	101	80311	F54T5/850/HO/ECO/CVG	112	80311	F54T5/850/HO/ECO/CVG	112	15482	Q20A/PAR56/C	114
99944	CP86 PAR64/VNSP	98	88461	CP89 FRM	99	23756	EJG	101	48469	F54T5/865/HO/ECO/CVG	112	48469	F54T5/865/HO/ECO/CVG	112	23863	Q20A/PAR56/3	114
25504/99945	CP87 PAR64/NSP	98	88504	FMR	99	23760	P2/11 EMF/Clear	101	72985	F54T5/830//ECO/MM/CVG	112	72985	F54T5/830//ECO/MM/CVG	112	88525	IM T20BP	114
99946	CP87 PAR64/NSP	98	88431	T12	100	23761	P2/11 EMF/Frosted	101	72986	F54T5/835//ECO/MM/CVG	112	72986	F54T5/835//ECO/MM/CVG	112	88523	1200T20	114

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