



Green Flagship product as best environmental choice in the energy saving lamps portfolio

MASTER PL-Electronic

Non-covered energy-saving MASTER lamps - the perfect choice for end users who demand the best performance and reliability. With a wide product range with different wattages, it offers comprehensive choices to suit different usages and applications.

Benefits

- Highest energy efficiency resulting in one-fifth the energy consumption of an incandescent lamp for the same light output
- Smallest dimensions ensuring optimal physical fit
- Highest reliability throughout life which is especially beneficial where lighting is required for longer periods of time and/or where lamp replacement is difficult
- The unique bridged burner results in an excellent run-up time with very high initial light output and better thermal performance
- Green Flagship product as best environmental choice in the CFL portfolio
- Lifetime independent of switching on-off
- Lowest total cost of ownership

Features

- Lightweight, superior long-life alternative to incandescent lamps
- The perfect choice for end users that demand the best performance and reliability
- Average lifetime 15 times longer than an incandescent lamp
- European energy efficiency labelling class A for the complete range
- Very good lumen maintenance throughout the lifetime of the lamp
- Complete range equipped with the unique Philips bridged burner technology (Mercury)
- Very low mercury content (≤ 2 mg)

Application

- Designed to replace incandescent lamps in most professional and semi- professional applications
- Mainly indoor (e.g. hotels, restaurants, offices)
- For outdoor applications 3 types (15, 20, 23W) will remain available also in Amalgam with the benefit of virtually constant light output ($>90\%$) over the recommended temperature
- Enclosed fixtures are required for outdoor applications
- Suitable for emergency lighting with DC supply
- Not suitable for dimming and electronic devices

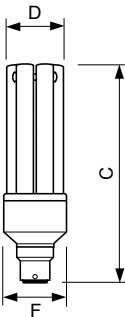
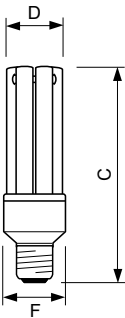
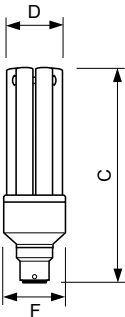
Versions



Versions



Dimensional drawing

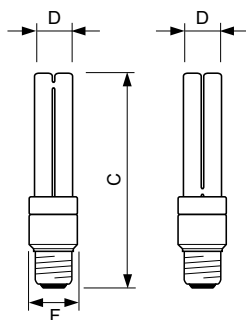
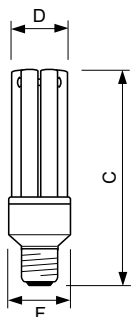


Product	D (max)	C (max)	F (max)
MASTER PLE-R 23W/827 B22 220-240V 1CT/6	39.6 mm	150.7 mm	48.0 mm
MASTER PLE-R 20W/827 B22 220-240V 1CT/6	39.6 mm	135.7 mm	48.0 mm

Product	D (max)	C (max)	F (max)
MASTER PLE-R 33W/827 E27 220-240V 1CT/6	39.6 mm	196.2 mm	48 mm
MASTER PLE-R 15W/827 E27 220-240V 1CT/6	39.6 mm	126.2 mm	48 mm
MASTER PLE-R 27W/827 E27 220-240V 1CT/6	39.6 mm	174.2 mm	48 mm

Product	D (max)	C (max)	F (max)
MASTER PLE-R 15W/827 B22 220-240V 1CT/6	39.6 mm	124.7 mm	48 mm

Dimensional drawing



Product	D (max)	C (max)	F (max)
MASTER PLE-R 20W/827 E27 220-240V 1CT/6	39.6 mm	137.2 mm	48.0 mm
MASTER PLE-R 23W/827 E27 220-240V 1CT/6	39.6 mm	152.2 mm	48.0 mm

Product	D (max)	C (max)	F (max)
MASTER PLE-C 8W/827 E27 230-240V 1CT/6	28.0 mm	119.2 mm	40.3 mm
MASTER PLE-C 11W/827 E27 230-240V 1CT/6	28.0 mm	141.2 mm	40.3 mm

Approval and Application

Energy Efficiency Label (EEL) A

Controls and Dimming

Dimmable no

Operating and Electrical

Input Frequency 50 or 60 Hz

Warm Up Time To 60% Light (Max) 60 s

Warm Up Time To 60% Light (Min) 10 s

Light Technical

Colour Code 827

Colour Designation Warm white (WW)

Correlated Colour Temperature (Nom) 2700 K

Colour Rendering Index (Nom) 82

Llmf At End Of Nominal Lifetime (Nom) 65 %

Mechanical and Housing

Bulb Shape Stick

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Max)	Mercury (Hg) Content (Nom)
75142310	MASTER PLE-R 15W/827 E27 220-240V 1CT/6	15 kWh	1.5 mg	1.4 mg
54385110	MASTER PLE-R 27W/827 E27 220-240V 1CT/6	27 kWh	1.5 mg	1.4 mg
65999610	MASTER PLE-R 33W/827 E27 220-240V 1CT/6	33 kWh	1.5 mg	1.4 mg
75205510	MASTER PLE-R 15W/827 B22 220-240V 1CT/6	15 kWh	1.5 mg	1.4 mg
26358200	MASTER PLE-C 8W/827 E27 230-240V 1CT/6	8 kWh	-	1.41 mg
26368100	MASTER PLE-C 11W/827 E27 230-240V 1CT/6	11 kWh	-	1.41 mg
75143010	MASTER PLE-R 20W/827 E27 220-240V 1CT/6	20 kWh	1.5 mg	1.41 mg
75206210	MASTER PLE-R 20W/827 B22 220-240V 1CT/6	20 kWh	1.5 mg	1.41 mg
75144710	MASTER PLE-R 23W/827 E27 220-240V 1CT/6	23 kWh	1.5 mg	1.41 mg
75207910	MASTER PLE-R 23W/827 B22 220-240V 1CT/6	23 kWh	1.5 mg	1.41 mg

Operating and Electrical (1/2)

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Order Code	Full Product Name	Lamp	Voltage (Nom)	Wattage Equivalent	Power
		Current (Nom)			(Rated) (Nom)
75142310	MASTER PLE-R 15W/827 E27 220-240V 1CT/6	110 mA	220-240 V	70 W	15.0 W
54385110	MASTER PLE-R 27W/827 E27 220-240V 1CT/6	124 mA	220-240 V	125 W	27.0 W
65999610	MASTER PLE-R 33W/827 E27 220-240V 1CT/6	155 mA	220-240 V	150 W	33.0 W
75205510	MASTER PLE-R 15W/827 B22 220-240V 1CT/6	110 mA	220-240 V	70 W	15.0 W
26358200	MASTER PLE-C 8W/827 E27 230-240V 1CT/6	65 mA	230-240 V	40 W	8 W
26368100	MASTER PLE-C 11W/827 E27 230-240V 1CT/6	75 mA	230-240 V	50 W	11 W

Order Code	Full Product Name	Lamp	Voltage (Nom)	Wattage Equivalent	Power
		Current (Nom)			(Rated) (Nom)
75143010	MASTER PLE-R 20W/827 E27 220-240V 1CT/6	140 mA	220-240 V	90 W	20.0 W
75206210	MASTER PLE-R 20W/827 B22 220-240V 1CT/6	140 mA	220-240 V	90 W	20.0 W
75144710	MASTER PLE-R 23W/827 E27 220-240V 1CT/6	156 mA	220-240 V	105 W	23.0 W
75207910	MASTER PLE-R 23W/827 B22 220-240V 1CT/6	156 mA	220-240 V	105 W	23.0 W

Operating and Electrical (2/2)

Order Code	Full Product Name	Starting Time	Starting Time
		(Max)	(Nom)
75142310	MASTER PLE-R 15W/827 E27 220-240V 1CT/6	-	1.0 s
54385110	MASTER PLE-R 27W/827 E27 220-240V 1CT/6	-	1.0 s
65999610	MASTER PLE-R 33W/827 E27 220-240V 1CT/6	-	1.0 s
75205510	MASTER PLE-R 15W/827 B22 220-240V 1CT/6	-	1.0 s
26358200	MASTER PLE-C 8W/827 E27 230-240V 1CT/6	0.2 s	-

Order Code	Full Product Name	Starting Time	Starting Time
		(Max)	(Nom)
26368100	MASTER PLE-C 11W/827 E27 230-240V 1CT/6	0.2 s	-
75143010	MASTER PLE-R 20W/827 E27 220-240V 1CT/6	-	1.0 s
75206210	MASTER PLE-R 20W/827 B22 220-240V 1CT/6	-	1.0 s
75144710	MASTER PLE-R 23W/827 E27 220-240V 1CT/6	-	1.0 s
75207910	MASTER PLE-R 23W/827 B22 220-240V 1CT/6	-	1.0 s

General Information

Order Code	Full Product Name	Cap-	Nominal	Rated	
		Base	Lifetime (Nom)	Lifetime (Hours)	Switching Cycle
75142310	MASTER PLE-R 15W/827 E27 220-240V 1CT/6	E27	20000 h	20000 h	50000X
54385110	MASTER PLE-R 27W/827 E27 220-240V 1CT/6	E27	20000 h	20000 h	50000X
65999610	MASTER PLE-R 33W/827 E27 220-240V 1CT/6	E27	20000 h	20000 h	50000X
75205510	MASTER PLE-R 15W/827 B22 220-240V 1CT/6	B22	20000 h	20000 h	50000X
26358200	MASTER PLE-C 8W/827 E27 230-240V 1CT/6	E27	15000 h	15000 h	20000X

Order Code	Full Product Name	Cap-	Nominal	Rated	
		Base	Lifetime (Nom)	Lifetime (Hours)	Switching Cycle
26368100	MASTER PLE-C 11W/827 E27 230-240V 1CT/6	E27	15000 h	15000 h	20000X
75143010	MASTER PLE-R 20W/827 E27 220-240V 1CT/6	E27	20000 h	20000 h	50000X
75206210	MASTER PLE-R 20W/827 B22 220-240V 1CT/6	B22	20000 h	20000 h	50000X
75144710	MASTER PLE-R 23W/827 E27 220-240V 1CT/6	E27	20000 h	20000 h	50000X
75207910	MASTER PLE-R 23W/827 B22 220-240V 1CT/6	B22	20000 h	20000 h	50000X

Light Technical (1/2)

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Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Lumen Maintenance 2000 h (Nom)	Lumen Maintenance 5000 h (Nom)
75142310	MASTER PLE-R 15W/827 E27 220-240V 1CT/6	463	420	90 %	-
54385110	MASTER PLE-R 27W/827 E27 220-240V 1CT/6	463	420	95 %	-
65999610	MASTER PLE-R 33W/827 E27 220-240V 1CT/6	463	420	95 %	-
75205510	MASTER PLE-R 15W/827 B22 220-240V 1CT/6	463	420	90 %	-
26358200	MASTER PLE-C 8W/827 E27 230-240V 1CT/6	467	424	90 %	85 %

Order Code	Full Product Name	Chromaticity Coordinate X (Nom)	Chromaticity Coordinate Y (Nom)	Lumen Maintenance 2000 h (Nom)	Lumen Maintenance 5000 h (Nom)
26368100	MASTER PLE-C 11W/827 E27 230-240V 1CT/6	466	422	90 %	85 %
75143010	MASTER PLE-R 20W/827 E27 220-240V 1CT/6	457	416	95 %	90 %
75206210	MASTER PLE-R 20W/827 B22 220-240V 1CT/6	457	416	95 %	90 %
75144710	MASTER PLE-R 23W/827 E27 220-240V 1CT/6	457	416	95 %	90 %
75207910	MASTER PLE-R 23W/827 B22 220-240V 1CT/6	457	416	95 %	90 %

Light Technical (2/2)

Order Code	Full Product Name	Luminous Efficacy (rated) (Nom)	Luminous Flux (Min)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
75142310	MASTER PLE-R 15W/827 E27 220-240V 1CT/6	58.3 lm/W	-	890 lm	890 lm
54385110	MASTER PLE-R 27W/827 E27 220-240V 1CT/6	67.2 lm/W	-	1820 lm	1820 lm
65999610	MASTER PLE-R 33W/827 E27 220-240V 1CT/6	68.2 lm/W	-	2250 lm	2250 lm
75205510	MASTER PLE-R 15W/827 B22 220-240V 1CT/6	58.3 lm/W	-	890 lm	890 lm
26358200	MASTER PLE-C 8W/827 E27 230-240V 1CT/6	50 lm/W	390 lm	432 lm	432 lm

Order Code	Full Product Name	Luminous Efficacy (rated) (Nom)	Luminous Flux (Min)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
26368100	MASTER PLE-C 11W/827 E27 230-240V 1CT/6	55 lm/W	540 lm	600 lm	600 lm
75143010	MASTER PLE-R 20W/827 E27 220-240V 1CT/6	60 lm/W	-	1220 lm	1220 lm
75206210	MASTER PLE-R 20W/827 B22 220-240V 1CT/6	60 lm/W	-	1220 lm	1220 lm
75144710	MASTER PLE-R 23W/827 E27 220-240V 1CT/6	63 lm/W	-	1500 lm	1485 lm
75207910	MASTER PLE-R 23W/827 B22 220-240V 1CT/6	63 lm/W	-	1500 lm	1485 lm

