



Dimensions in mm

Type	A max.	B max.
Cap/base E27		
PL E-D 15W	94	147
PL E-D 20W	111	167
PL E-D 23W	121	183

Type	A max.	B max.
Cap/base B22		
PL E-D 15W	94	147
PL E-D 20W	111	167
PL E-D 23W	121	183

Definition

The PL E-D Professional 12000 range is a range of decorative electronic energy-saving lamps, offering a low-weight, long-life alternative to decorative incandescent lamps.

Description

The PL E-D range of electronic energy-saving lamps is available in 20W and 23W with E27/B22 cap. All types are available in colour temperature 2700K (warm white) the 23W/E27 is also available in 6500K (cool daylight).

The electronic ballast of the PL E-D lamps incorporates an integrated circuit. This IC improves the independence of lamp life of a fast switching (provided off-time is not less than 10 seconds) and gives a starting time of less than 1 second. The influence of the mains voltage variation (10%) on the lamps luminous flux has become negligible (<5%).

The minimum mains voltage required for the lamp to ignite is 170V (AC) and for the lamp to function after ignition is 180V (AC). The light output after 1 minute is 70%. Average lamp life is 12 000 hours (10 000 hours for cool daylight types). The lumen maintenance is 65% at 5000 hours and 50% at 10 000 hours. Energy consumption is approx. 80% less than the incandescent lamps they replace.

PL E-D lamps are suitable for DC applications due to their low power consumption. For optimum performance the lamps must be operated at 300-340V DC.

The lamps will operate at lower voltages but with a reduced performance. The minimum voltage required for the lamp to ignite is 160V DC and the maximum allowed operating voltage is 355V DC.

The lamps are energy class B in the European energy efficiency labelling.

Applications

The PL E-D range of electronic energy-saving lamps is specified for professional use and they are suitable for replacing incandescent lamps in (open) luminaires with decorative purpose.

Due to their significant energy and cost saving benefits they are especially suitable for professional applications such as in restaurants, hotels and offices where lighting is required for longer periods of time or in places where lamp replacement is difficult. In outdoor applications enclosed fixtures are to be used to prevent moisture effecting the electronics in the base. The recommended range of ambient temperatures is -15°C to +55°C for base up, and +5°C to +55°C for base down applications. Due to the use of amalgam technology, the light output is almost constant (>80%) over the recommended range of ambient temperatures. Average switch life is over 20 000 switches.

Philips PL E-D lamps are not suitable for applications in combination with electronic switches, photocells, timing devices or dusk-to-dawn sensors unless a 3-point switch is used (lamp is fully switched off from mains voltage) or for dimming.

Philips PL E-D lamps comply with IEC 968 (safety requirements), IEC 969 (performance requirements), and CE regulations (e.g. EN 55015 radio disturbance).

Range overview

Type	GLS equivalent	Wattage power consumption	Cap/base	Voltage/Frequency	Luminous flux	Luminous efficacy	Colour temperature	CRI	Lamp current	Power factor	Energy efficiency class	Average lamp life 50%	Weight (max.)	Ordering number
PL E-D	75	15	E27/ES	230-240V ~ 50-60 Hz	800	52	2700	82	95	0,65	B	12000	149	For reference only
PL E-D	100	20	E27/ES	230-240V ~ 50-60 Hz	1100	55	2700	82	150	0,55	B	12000	188	9297 411 95300
PL E-D	100+25	23	E27/ES	230-240V ~ 50-60 Hz	1350	58	2700	82	165	0,58	B	12000	196	9297 421 95300
PL E-D	75	15	B22/BC	230-240V ~ 50-60 Hz	800	52	2700	82	95	0,65	B	12000	148	For reference only
PL E-D	100	20	B22/BC	230-240V ~ 50-60 Hz	1100	55	2700	82	150	0,55	B	12000	187	9297 412 95300
PL E-D	100+25	23	B22/BC	230-240V ~ 50-60 Hz	1350	58	2700	82	165	0,58	B	12000	195	9297 422 95300
PL E-D	100+25	23	E27/ES	230-240V ~ 50-60 Hz	1300	56	6500	76	165	0,58	B	10000	196	9297 421 95500

Packaging dimensions

Type	Packaging	Wattage	Width	Depth	Height	Content outer
PL E-D	Hangable commercial pack	20	square	280	213	4
		23	square	300	225	4

BMP overview

BMP	Destination	Commercial pack (C)	Europallet (e) Poolpallet (p)	Nordic languages	Dutch	German	French	Italian	English	Portuguese	Spanish	Greek	Polish	Hungarian	Czech	Turkish	Other languages
84	Europe	H	E	x	x	x	x	x	x	x	x	x	x	x			
85	Europe	H	P	x	x	x	x	x	x	x	x	x	x	x			