

ENERGY SAVING LAMPS



Energy Saving Lamp (Compact Fluorescent Lamp with electronic ballast) is an ideal replacement for incandescent bulbs. This ensures significant saving in electricity bill and ideal for domestic application. The high frequency ballast offers better light efficacy. Protection from surges and lamp end of life distinguishes these ballast from others. Flicker free pre-heated lamp starting increases the lamp life. More over it will operate even at 90V and withstands up to 270V. This can be directly inserted to normal incandescent bulb holder and is available in different lamp wattage.

Energy Saving Lamps are available in two different series- "Prima" and "Lumina"

FEATURES

- Wide operating voltage range (90-270V AC)
- Free from premature lamp blackening
- Long lamp life
- Low THD and high power factor

PRIMA - TECHNICAL SPECIFICATIONS

	Prima 13	Prima 15	Prima 18
General			
Lamp Wottage	13W	15W	18W
Electrical			
Nominal working voltage	230V AC		
Working voltage range	120 to 270V AC		
Inverter type	Quasi Sine wave, Free running		
Inverter frequency	20-35 kHz		
Lamp power (Typ) @ High Frequency	12.5W	15W	16.5W
Protections	Input surges		
Mechanical			
Fixing	Bayonet cap (B22d/25x26) 2 Pin		
Case	Injection Moulded Engineering plastic, (Fire retardant grade)		

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LUMINA - TECHNICAL SPECIFICATIONS

	Lumina 11	Lumina 13	Lumina 18
General			
Lamp type	Compact Fluorescent Lamp, 4 pin, single U Non-integrated lamp to the ballast		
Lamp Wattage	11W	13W	18W
Rated Light output (Lumens)	900±5%	900±5%	1200±5%
Light coverage	> 360 Deg		
Electrical			
Nominal working voltage	230V AC		
Working voltage range	90 to 270V AC		
Inverter type	Quasi Sine wave, Free running		
Inverter frequency	25-35 kHz		
Power consumption	14.3 ± 1W	15.1 ± 1W	20 ± 1.5W
Inverter efficiency	>80%		
Lamp current Crest factor	<1.7		
Lamp power (Typ) @ High Frequency	11W	12.5W	16.5W
Lamp current (Typ) @ High Frequency	150mA	165mA	210mA
Current consumption @ 230VAC Input	64mA±10%	70mA±10%	95mA±10%
Current THD (up to 10 th)	<15%		<18%
Power factor	>0.95		
Protections	Lamp end of life, Input surges		
Mechanical			
Fixing	Bayonet cap (B22d, Ø 22mm, twist type)		
Case	Injection Moulded Engineering plastic (Fire retardant grade)		

Note: Specifications subject to change without notice. Check for latest update

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ORDERING INFORMATION

Prima series					
Model	Lamp Wattage	Lamp Type	Base	Type	Suggested to Replace
ESL-13230A	13W	CFL 3U 4 Pin	G22d	Integral	60W incandescent bulb
ESL-15230A	15W	CFL 3U 4 Pin	G22d	Integral	75W incandescent bulb
ESL-18230A	18W	CFL 3U 4 Pin	G22d	Integral	100W incandescent bulb

Lumina series						
Model	Lamp Wattage	THD	PF	Lamp type	Base	Type
ESL-11230B	11W	<15%	> 0.95	CFL 1U 4 Pin	G22d	Detachable
ESL-13230B	13W	<15%	> 0.95	CFL 2U 4 Pin	G22d	Detachable
ESL-18230B	18W	<18%	> 0.95	CFL 2U 4 Pin	G22d	Detachable