

The energy-saving FLP clean room luminaires, designed to replace conventional 2x18W and 2x36W PL lamps, ensure excellent thermal management with their single-piece cast aluminum heat sink cum housing, providing consistent, glare-free lighting that enhances worker productivity and reduces errors.



FEATURES & BENEFITS

- Higher system efficiency up to 125 lumens/Watt
- Reduces energy consumption by up to 50% versus conventional light.
- Maintain "Zero Air Gap" between MCPCB and cast aluminium modules ensures fastest heat dissipation.
- LM-80 compliant EMC package high efficiency & Photo biologically safe LEDs
- High performance electronic driver with 440V protection for 8 Hrs. (Phase to Phase).
- High Voltage Cut off @ 310 ± 15V with Auto Restart feature.
- Along with the additional 10kV/5kA built-in surge protection device.
- High quality of light by increase CRI up to 80 for all colour temperature.
- Vibration, dust and heat resistant.
- No harmful UV & IR radiation
- Lifetime of over 50, 00 hours at L70, which requires no lamp replacement after installation
- Complies with IP 65 ingress protection rating ensuring stable and consistent performance over product life time.

PRODUCT SPECIFICATIONS

Housing :

Epoxy powder coated finished Cast aluminium housing (heat sink) for effective thermal management, sturdiness & excellent corrosion resistance.

Glass Frame :

Tempered protective frosted toughened glass sealed with glass frame and fixed to the housing with SS Allen bolts. Neoprene gasket is used for maintaining ingress protection.

Light source :

High efficiency long life LED module with EMC package SMD type LED mounted on MCPCB. Lumen efficacy of LED ≥ 150lm/W with beam angle 120° for uniform distribution.

Electronic Driver :

Built in potted constant current multistage isolated LED driver with < 10% THD, PF ≥ 0.98, Output Open /Short Circuit protection, Over Voltage protection, Surge Voltage protection & other safety tests as per IS 15885 Part-2/Sec 13 and BIS comply.

Mounting & Maintenance :

Surface mounting using fixed MS bracket of thickness 3.0 mm provided with the fixture by 2 circular slots of 12mm Ø at center distance of 265mm. Recommended mounting height with suitable in ground reinforcement is 3-5m.

APPLICATIONS :

- R & D Centers
- Chemical Factories Laboratories
- Oil Rings, Refineries & Mines
- Pharma Industries

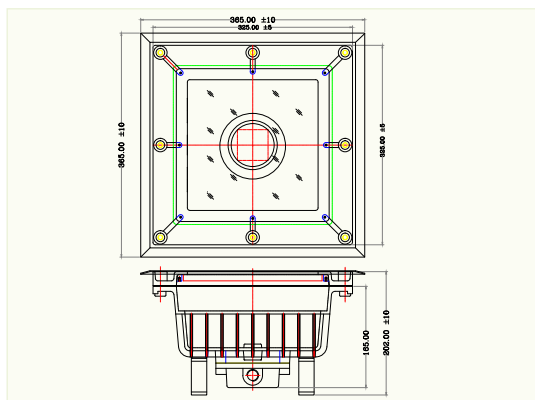
Note: Clean Room Luminaires are provided with additional 10kV Built in surge protection device (SPD).

TECHNICAL DATA

Product Code	Ordering Code	LED Wattage	System Wattage (W)	Rated Voltage (V)	Mains Current (A)	Lumens
PLFC 536 / 30	PLFC 536 / 42 / 100	26	30	230	0.14	3800
PLFC 536 / 50	PLFC 536 / 64 / 100	44	50	230	0.23	6100
PLFC 536 / 60	PLFC 536 / 96 / 100	52	60	230	0.27	7900

Note: Warranty Voids for LED fixtures including Drivers, if individual points of installations are not provided with proper Earthing

TECHNICAL DRAWING



DIMENSION

Product Code	Dimension in mm			Approx Weight
	L	W	H	
PLFC 536 / 30	280	280	150	5.900
PLFC 536 / 50	280	280	150	6.000
PLFC 536 / 60	550	370	175	11.000

CUT OFF SIZE

Product Code	Dimension in mm	
	L	W
PLFC 536 / 30	245	245
PLFC 536 / 50	245	245
PLFC 536 / 60	530	335