

18W AC TUBE LIGHT

DATASHEET

Applications :

Area: Indoor

Purpose: Home and Office Lighting.



Actual Product Image May Differ

Specifications and Features:

- ✓ Universal Input Voltage [85V to 275V 60/50Hz]
- ✓ Constant Current LED drive
- ✓ Line Regulation +/-5% with Feedback Control
- ✓ Efficiency >90%
- ✓ Power Factor >0.9
- ✓ Open Circuit Protection
- ✓ Short Circuit Protection
- ✓ THD <10%
- ✓ Isolation 3kV I/p to O/p.
- ✓ EMI/EMC Class B Compliant
- ✓ RFI Suppressed
- ✓ Continuous Operation Performance

Features:

(1) Optical

- » Optical pattern meets all standard Home and Office Light Standards.
- » Uniform illuminance distribution.

(2) Power

- » Switched mode constant current power supply.
- » Over-heat, Over-voltage, Over-current protections are provided.
- » Lightning Protection provided.

(3) Thermal

- » Luminaire surface temperature is 48°C @ Ta=30°C, the temperature variation is controlled under 5°C.
- » Junction temperature is controlled at 70°C @ Ta=30.
- » Overheat protection will operate to adjust as the LED module surface reaches 80°C.

(4) Luminaire

- » Optimized thermal design to ensure maximum life to LED. The Heat sink grade aluminium has the highest surface area for efficient heat diffusion and the entire luminaire with Aluminium acts as heat sink.
- » Dust and water protection design meeting IP65 standards.
- » Super-high luminaire efficacy.

DETAILED TECHNICAL SPECIFICATION

Electrical Characteristics:

PARAMETER	PROMPT DRIVER RESULT
Input Voltage	85 -275 VAC
Input Current	0.21A
Input Power	21.3W
Rated Power	18W
Maximum Power	22W
Self Power Consumption	1W
Efficiency	>90%
Power Factor	0.973
Voltage Harmonics (THD)	<5%
Current Harmonics (THD)	<10%

Operating Conditions:

Operating Frequency	100kHz to 200kHz
Operating Temperature Range	-25°C to +70°C
Storage Temperature Range	-65°C to 125°C
Humidity	95% RH

LED Details:

Led Make	OSRAM/CREE/PHILIPS/EVERLIGHT
No Of LED's	216
Led Viewing Angle	120°
Colour Temperature	Cool White (5500 to 6500K)
Luminous Flux	>1450 Lumens
Life Span	> 50,000 Hours
Colour Rendering Index	>70 Ra

Protection Parameters:

Over-Current Protection	Inbuilt
Short-Circuit Protection	Inbuilt
Over-Voltage Protection	Inbuilt
Over-Temperature Protection	135 °C
Dust and Water Protection	IP 65
Lightning Protection	Inbuilt

Certification:

CPRI Certification

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