

LED Driver 15W

pro-ELEC

RoHS
Compliant



Description

This Plastic case Constant Voltage LED Drivers were designed for input voltages 220 through 240V AC and maintains a fully isolated output. Our products are IP20 waterproof and can operate in humidity of up to 95%, while adhering with international safety standards. We've built-in automated protection; short circuit, over voltage, over current and over temperature protections. Each driver undergoes rigorous testing, and a full load burn in.

Features

- Flicker-free Design
- Constant Voltage
- Terminal block for quick connection
- CLASS II Power Supply
- IP20 Rated Case With
- 3 Years Warranty

Applications

- Commercial Lighting
- Indoor Lighting
- Industrial Lighting
- Retail Lighting

Specification

Input

Rated Voltage Range	: 220-240VAC
Voltage Range ⁶	: 198-264V AC
Frequency Range	: 50/60Hz
AC Current	: 0.2A/230V AC (Full Load)
Power Factor ²	: PF>0.95/115V AC PF>0.93/230V AC
THD	: <20%
Efficiency ²	: 85%
Inrush Current	: Cold Start 65A/200us at 230V AC
Leakage Current	: <0.25mA/230V AC
No Load Power Consumption	: <0.5W

Output

DC Voltage	: 12V
Rated Current	: 1.25A
Rated Power	: 15W
Ripple & Noise(max.) ³	: 400mV/m-p
Voltage Tolerance ¹	: ±5%
Line Regulation ¹	: ±3%
Load Regulation ¹	: ±5%
Pst	: <1.0
SVM	: <0.4
Dimming Type	: NO
Dimming Range	: NO
Setup Time ⁷	: 1.0s/115V AC 230V AC (Full Load)

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MCBS

Circuit breaker type : B16 / B20

Number of drivers : 2 / 3

Protection

Over Current : 110~180%
Hiccup mode , recovers automatically after fault condition is removed.

Short Circuit : Auto Restore.

Over Voltage : 13~15.6V
Shut down o/p voltage, re-power on to recover.

Over Temperature : Auto Restore.

Surge Capacity : L-N:1KV

Ambient

Working TEMP. : Ta:-20~+45°C (Please refer to "Derating Curve" section)

MAX. Case TEMP. : Tc:85°C

Working Humidity : 20~95%RH Non-condensing

Storage TEMP. Humidity : -40~+85°C, 10~95%RH Non-condensing

TEMP. Coefficient : $\pm 0.03\% / (0 \sim 40^{\circ}\text{C})$

Vibration : 10 ~ 500Hz, 5G 12Min./1cycle, period for 72Min. each along X, Y, Z axes

Life

Vibration : 10 ~ 500Hz, 5G 12Min./1cycle, period for 72Min. each along X, Y, Z axes

Lifetime : >26280h@Tc=40°C, full load

MTBF : 275.9Khrs min. MIL-HDBK-217F(25°C)

Safety

Withstand Voltage : I/P-O/P: 3.75KV AC/1Min.

Isolation Resistance : I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH

Other

Dimensions (L × W × H) : 90 × 40 × 24mm

Packing : 0.15kg/pcs; 41.5 × 25 × 17 cm; 100pcs/carton

Protection Class : Class II

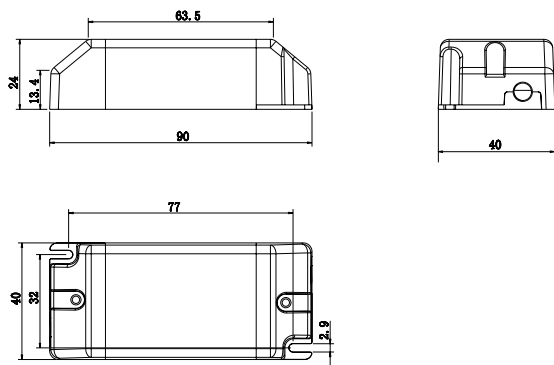
Note

1. Tolerance: includes set up tolerance, line regulation and load regulation.
2. Tested at full load, 230V AC. Refer to "Power Factor" and "Efficient" curve graphs.
3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
4. Calculate the model's average efficiency for each test voltage by testing at 100%, 75%, 50%, and 25% of rated current and then computing the simple arithmetic average of these four values.
5. All parameters NOT specially mentioned are measured at nominal voltage input, rated load and 25°C of ambient temperature.
6. De-rating may be needed under low input voltages. Please refer to "Static Characteristic" sections for details.
7. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time.
8. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.

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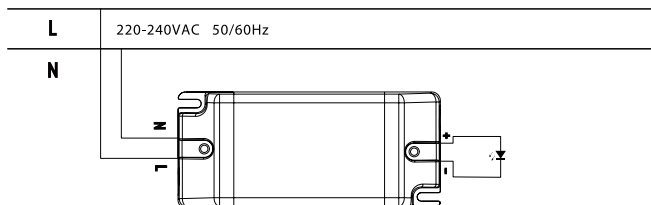
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Dimensions



Width:40mm Height:24mm Length:90mm

Wiring Diagram

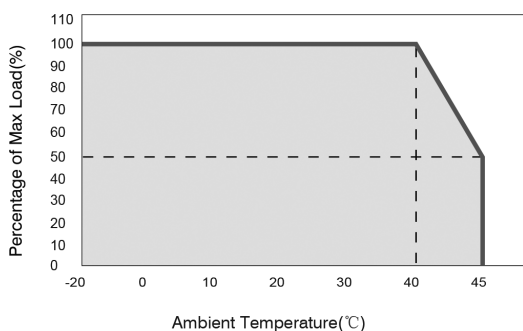


Technical Specification

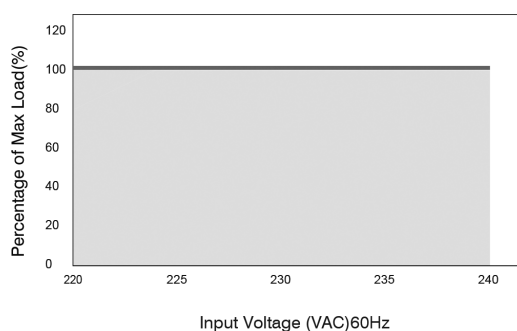
Input : HO5RN-F 2*1.0² VDE
Output : SVT 22/24AWG*2C 105 300V
Operating Temperature : -20 to +45°C
Protection Rating : IP20

Feature Curves

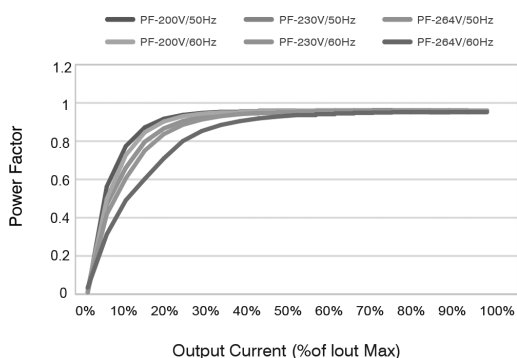
Derating Curve



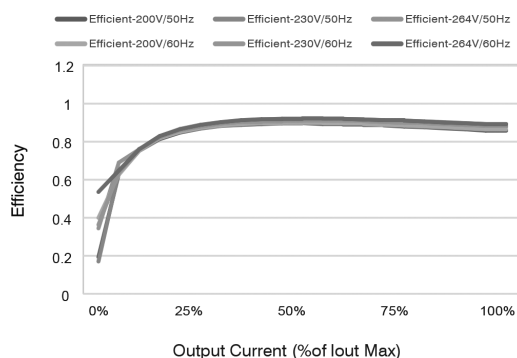
Static Characteristics



Power Factor Curve



Efficiency Curve



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Part Number Table

Description	Part Number
LED Driver, 12V, 1.25A, 15W	PELL0538

Dimensions : Millimetres

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