

# LED Driver 80W

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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

## Specifications

### Input

|                            |                                      |
|----------------------------|--------------------------------------|
| Rated Voltage Range        | : 220-240V AC                        |
| Voltage Range <sup>6</sup> | : 198-264V AC                        |
| Frequency Range            | : 50/60Hz                            |
| AC Current                 | : 0.5A/230V AC (Full Load)           |
| Power Factor <sup>2</sup>  | : PF>0.95/115V AC<br>PF>0.93/230V AC |
| THD                        | : <20%                               |
| Efficiency <sup>2</sup>    | : 90% / 90.5%                        |
| 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 / 24V                           |
| Rated Current                      | : 6.66A / 3.33A                       |
| Rated Power                        | : 80W                                 |
| Ripple & Noise (max.) <sup>3</sup> | : 400mV/m-p                           |
| Voltage Tolerance <sup>1</sup>     | : ±5%                                 |
| Line Regulation <sup>1</sup>       | : ±3%                                 |
| Load Regulation <sup>1</sup>       | : ±5%                                 |
| Pst                                | : <1.0                                |
| SVM                                | : <0.4                                |
| Dimming Type                       | : NO                                  |
| Dimming Range                      | : NO                                  |
| Setup Time <sup>7</sup>            | : 1.0s/115V AC<br>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 / 26~31.2V  
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

Lifetime : >26280h@Tc=40°C, full load  
MTBF : 203.6Khrs 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 / 500V DC / 25°C/ 70% RH

### Other

Dimensions (L × W × H) : 170 × 57 × 32mm  
Packing : 0.23kg/pcs; 37.5 × 35 × 23.5 cm; 50pcs/carton  
Protection Class : Class II

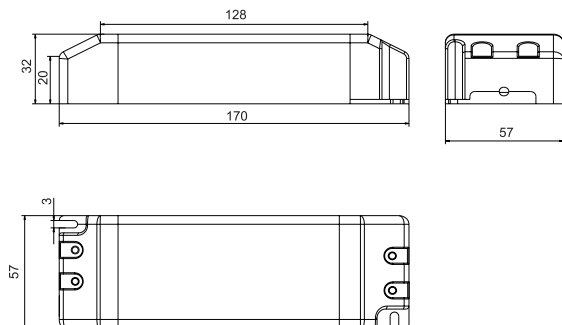
### Note

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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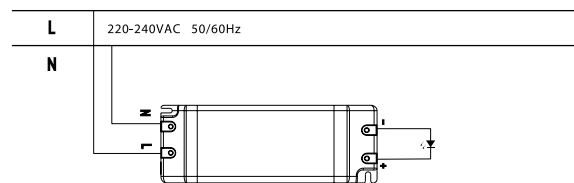
## Dimensions



Width:57mm Height:32mm Length:170mm

Dimensions : Millimetres

## Wiring Diagram

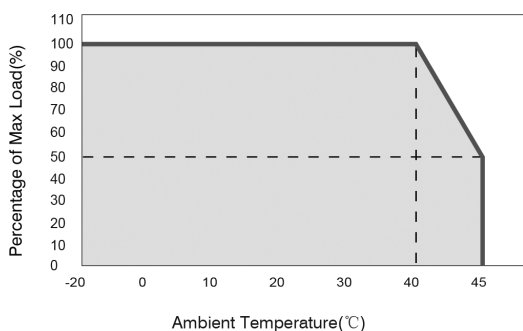


## Technical Specification

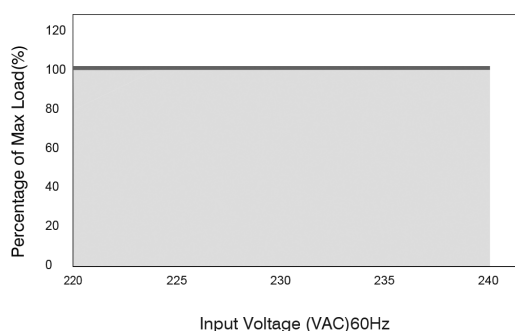
Input : HO5RN-F 2\*1.0m<sup>2</sup> VDE  
Output : SVT 18/20/22AWG\*2C 105 300V  
Operating Temperature : -20 to +45°C  
Protection Rating : IP20

## Feature Curves

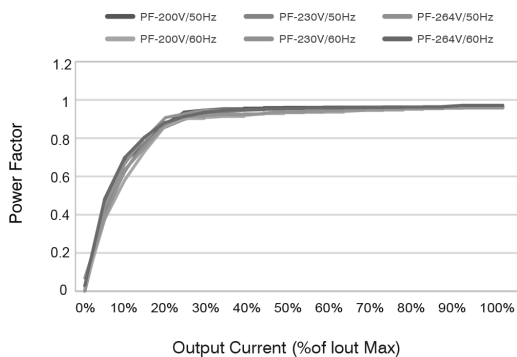
### Derating Curve



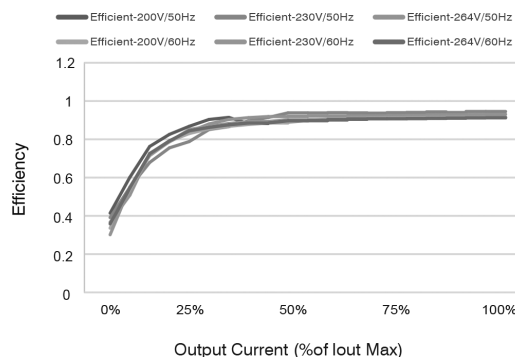
### Static Characteristics



### Power Factor Curve



### Efficiency Curve



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# LED Driver

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### Part Number Table

| Description                 | Part Number |
|-----------------------------|-------------|
| LED Driver, 12V, 6.66A, 80W | PELL0546    |
| LED Driver, 24V, 3.33A, 80W | PELL0547    |

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