

**Product Description:**

- Constant voltage LED power supply
- Universal input voltage range, 100-277 VAC
- Connection cable with stripped cable end (length approx. 19.7 in. / 500 mm)
- Failure rate at 0.37% per 1000 hours
- Polarity identifiers, secondary + red / - black
- White finish
- Nominal lifetime 70,000 h (at 230Vac, full load, Tc: 185° F/85° C)
- 7-year guarantee (for Tc: 185° F/85° C)
- Suitable for emergency installation according EN 50172



**Properties:**

- Low-profile design
- Low power loss
- Short-circuit shutdown feature w/ automatic restart
- OVP, OCP, OTP and surge protection
- SELV
- IP68
- Encapsulated metal casing



**ORDERING GUIDE**

|                   |  |
|-------------------|--|
| Type              | PS12-100W-GN-B                                 |
| Article Number    | 28000510B                                      |
| Packaging Carton  | 12 pc(s).                                      |
| Weight per pc.    | 0.99 lb (0.45 kg)                              |
| Carton Dimensions | 16.34 x 15.75 x 6.69 in.<br>415 x 400 x 170 mm |
| Carton Weight     | 33.1 lb (15 kg)                                |

**SPECIFIC TECHNICAL DATA**

|                      |                |
|----------------------|----------------|
| Max. Casing Temp Tc  | 194° F (90° C) |
| Output Voltage       | 12.5 V         |
| Max. Input Power     | 130 W          |
| Output Current Range | 0 - 8.33 A     |
| Max. Output Voltage  | 13.12 V        |

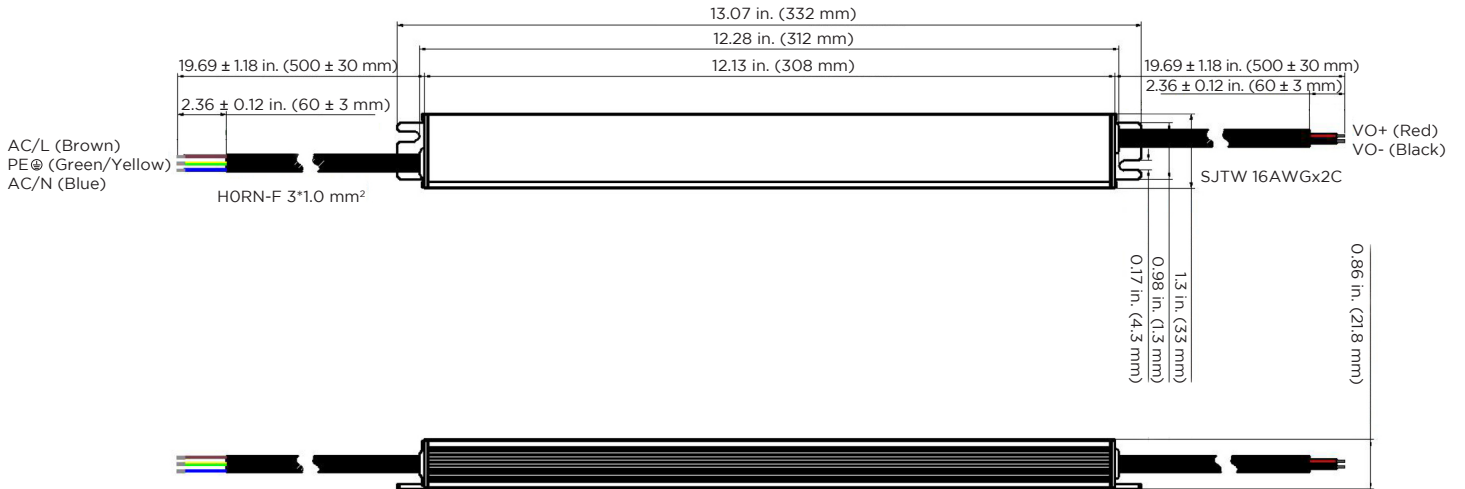
**STANDARD COMPLIANCE**

|                       |                                      |
|-----------------------|--------------------------------------|
| <b>Safety</b>         | <b>Safety Standards</b>              |
| <b>Certifications</b> | UL879, CLASS1, CE, CB, RoHS, FCC, MM |

**TECHNICAL DATA**

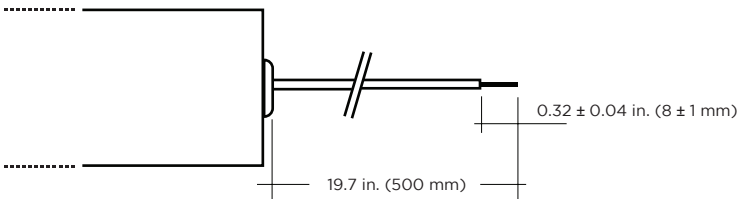
|   |  |
|---|--|
| Rated Supply Voltage                    | 100 - 277V AC                                  |
| Input Voltage, AC                       | 90 - 305V AC                                   |
| Input Voltage, DC                       | 200 - 240V DC                                  |
| Max. Input Current                      | 1.3 A @ 100V AC                                |
| Input Frequency Range                   | 47 - 63 Hz                                     |
| Efficiency (at 230 V, 50 Hz, full load) | > 92%  |
| λ (at 230 V, 50 Hz, full load)          | > 0.95   |
| THD                                     | < 20%  |
| Output Voltage Tolerance                | ± 5 %  |
| Output Power (ta ≤ 60°C)                | 100 W  |
| Output Power Range                      | 0 - 100 W                                      |
| No Load Power                           | 1.2 W  |
| Inrush Current                          | 70 A   |
| Turn On Time (Output)                   | ≥ 3 s  |
| Hold on Time at Power Failure (Output)  | 10 ms  |
| Ambient Temperature Ta                  | -40° — +140° F (-40 ~ +60° C)                  |
| Storage Temperature Ts                  | -40° — +176° F (-40 ~ +80° C)                  |
| Dimensions (L x W x H)                  | 13.07 x 1.3 x 0.86 in.<br>(332 x 33 x 21.8 mm) |

**DIMENSION DRAWINGS**



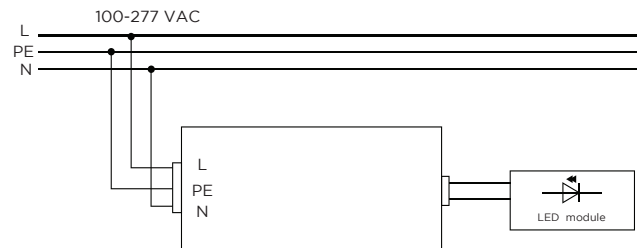
**Note:** To prevent exposure to the maximum allowable temperatures for these drivers, the suggested installation spacing between drivers is at least 4 in. (100 mm) side-to-side when the distance to the sidewall and top of the enclosure is 2 in. (50 mm). When the distance to the sidewall and top of the enclosure is 6 in. (150 mm), maintain at least 2 in. (100 mm) side-to-side spacing between drivers. Drivers should be placed a minimum of 1 in. (25 mm) apart when arranging them end-to-end regardless of the enclosure size.

**CONNECTION**



| Primary Cable |      |              | Secondary Cable |       |
|---------------|------|--------------|-----------------|-------|
| L             | N    | PE           | +               | -     |
| brown         | blue | green/yellow | red             | black |

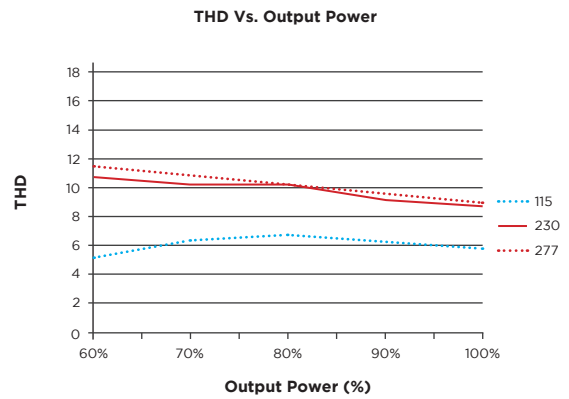
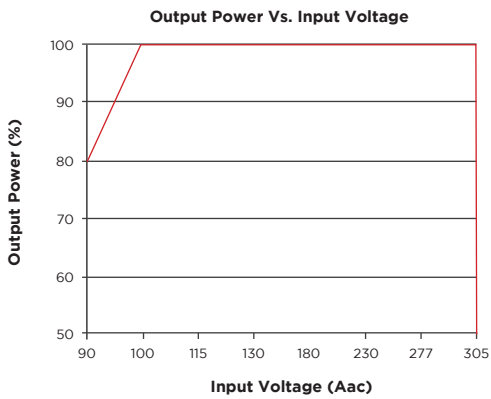
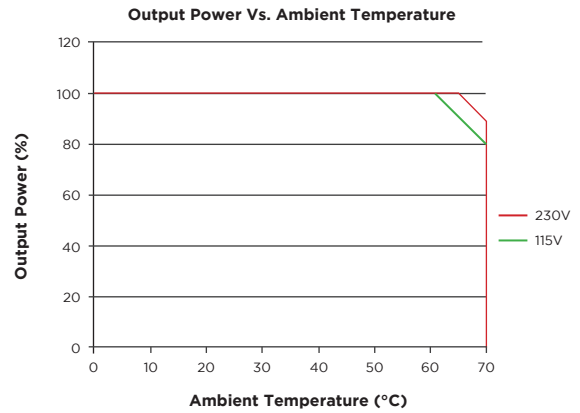
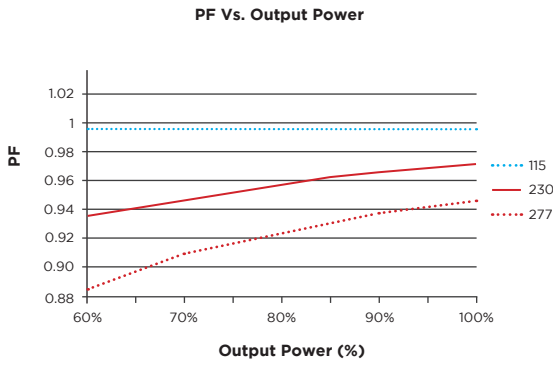
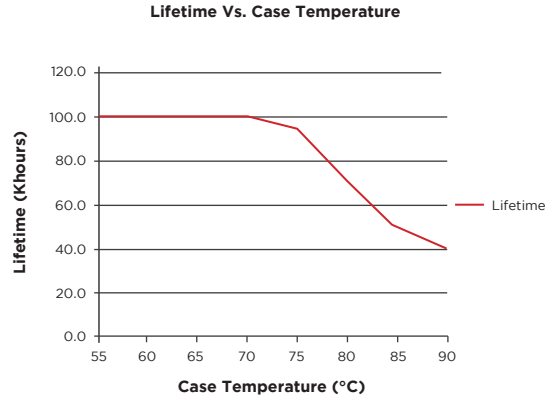
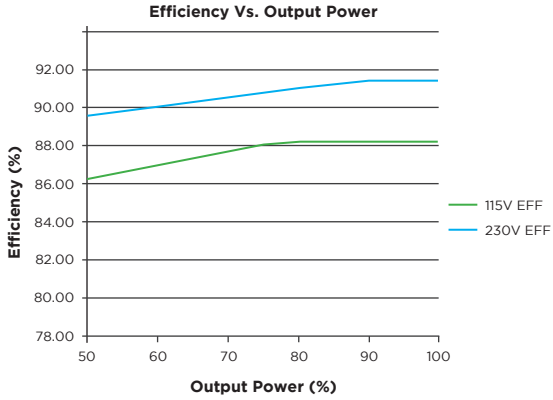
**WIRING DIAGRAM**



**Installation instructions**

The switching of LEDs on secondary side is not permitted. A proper functioning of the LCU in combination with third party dimming devices (e.g. PWM) cannot be guaranteed.

**PERFORMANCE CURVE**



1. The maximum case temperature Tc shall not exceed 194 °F ( 90°C) when used in end product.
2. These products are intended to be connect to a max. 20A branch circuit.
3. These products are intended for use in dry and damp locations.
4. Required spacing between power supply according UL48.