

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)
- Polarity identifiers, secondary + red / - black
- White finish
- Nominal lifetime 70,000 h (at 230 VAC, full load, Tc: 176 °F/80 °C)
- 7-year guarantee (for Tc: 176 °F/80 °C)
- Suitable for emergency installation according to 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 | PS12-60W-GN-B |
| Article Number | 28000509B |
| Packaging Carton | 25 pc(s). |
| Weight per pc. | 0.88 lb (0.4 kg) |
| Carton Dimensions | 16.34 x 12.8 x 6.69 in. 415 x 325 x 170 mm |
| Carton Weight | 22.05 lb (10 kg) |

SPECIFIC TECHNICAL DATA

| | |
|----------------------|----------------|
| Max. Casing Temp Tc | 194 °F (90 °C) |
| Output Voltage | 12.5 V |
| Max. Input Power | 90 W |
| Output Current Range | 0 - 5 A |
| Max. Output Voltage | 13.12 V |

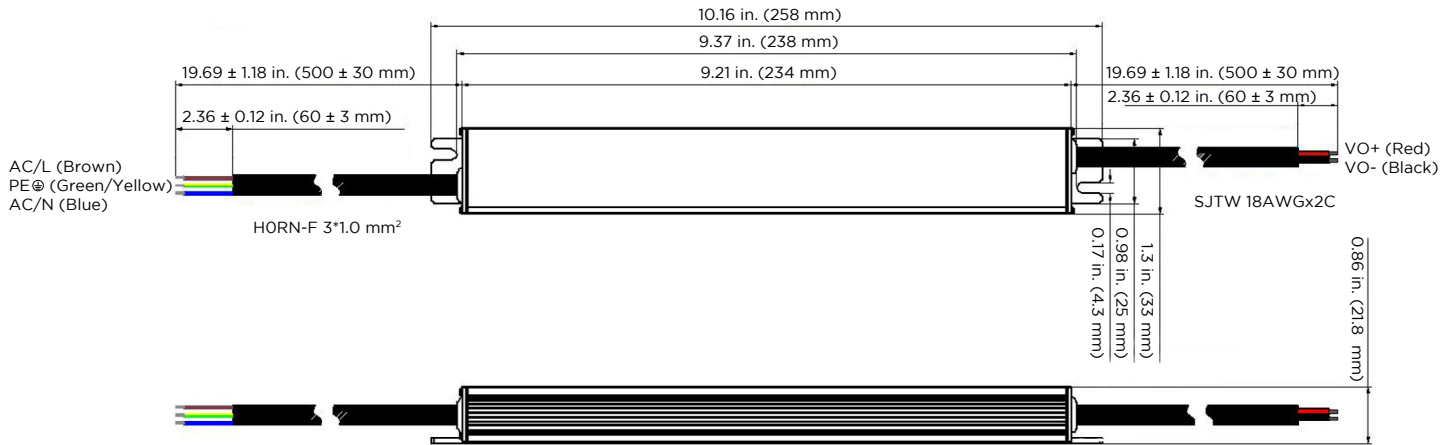
STANDARD COMPLIANCE

| Safety | Safety Standards |
|----------------|----------------------------------|
| Certifications | UL879, CLASS2, CE, RoHS, FCC, MM |

TECHNICAL DATA

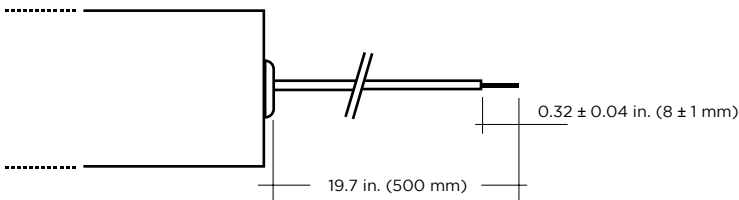
| | |
|---|--|
| Rated Supply Voltage | 100 - 277 VAC |
| Input Voltage, AC | 90 - 305 VAC |
| Input Voltage, DC | 200-240 VDC |
| Max. Input Current | 0.9 A @ 100 VAC |
| Input Frequency Range | 47 - 63 Hz |
| Efficiency (at 230 V, 50 Hz, full load) | > 85% |
| λ (at 230 V, 50 Hz, full load) | > 0.95 |
| THD | < 20% |
| Output Voltage Tolerance | ± 5 % |
| Output Power (ta ≤ 60°C) | 60 W |
| Output Power Range | 0 - 60 W |
| No Load Power | > 0.5 W |
| Inrush Current | < 60 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) | 10.16 x 1.3 x 0.86 in. (258 x 33 x 21.8 mm) |

DIMENSION DRAWINGS



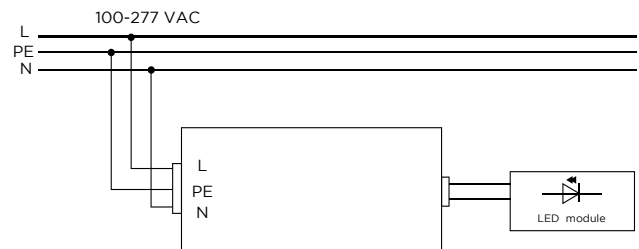
NOTE: To prevent exposure to the maximum allowable temperatures for these drivers, the suggested installation spacing between drivers is at least 4 in. (101.6 mm) side-to-side when the distance to the sidewall and top of the enclosure is 2 in. (50.8 mm). When the distance to the sidewall and top of the enclosure is 6 in. (152.4 mm), maintain at least 2 in. (50.8 mm) side-to-side spacing between drivers. Drivers should be placed at a minimum of 1 in. (25.4 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

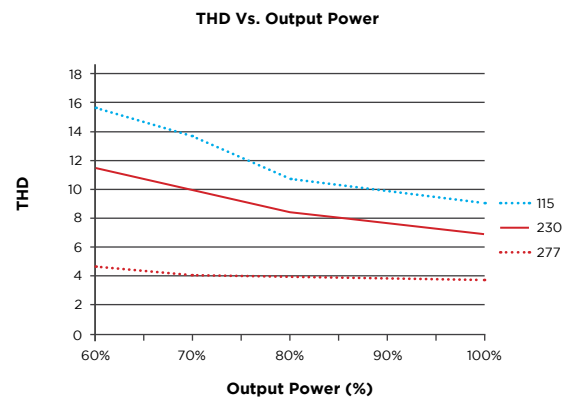
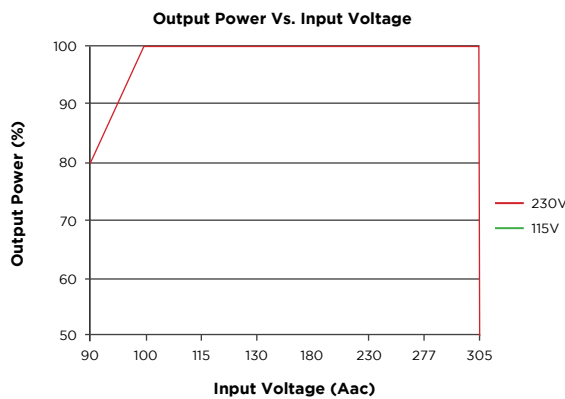
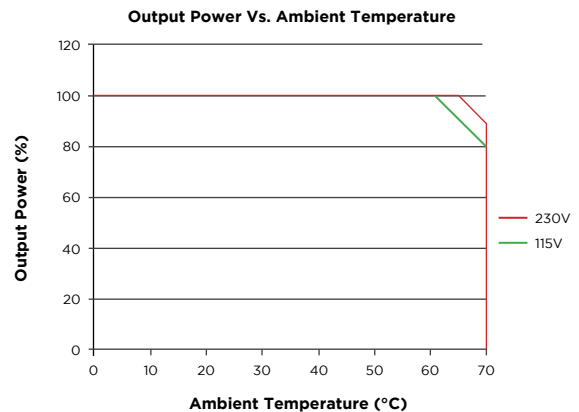
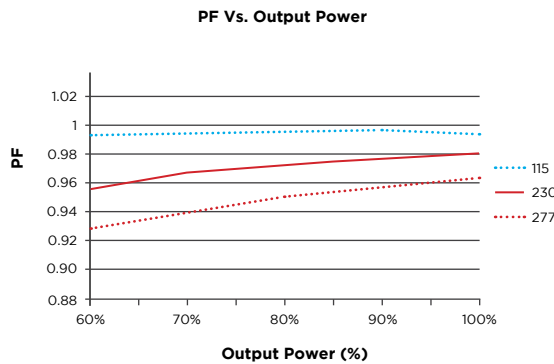
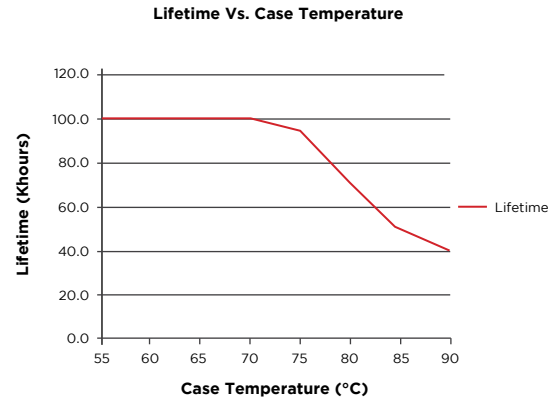
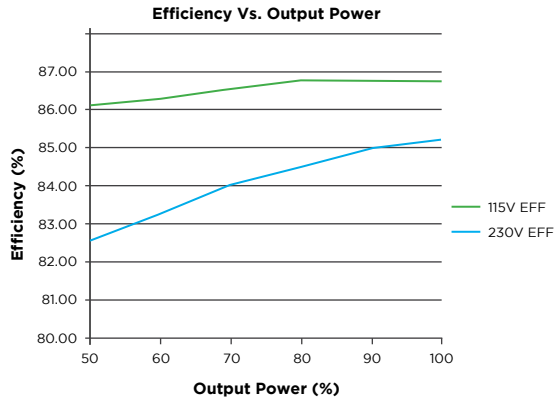
The switching of LEDs on secondary side is not permitted. A proper functioning of the LCU in combination with third party dimming devices (e.g. PWM) cannot be guaranteed.

DRIVER REMOTE DISTANCES

| Wattages | PS12-60W-GN-B | |
|-------------------------------|---------------|--------|
| | Feet | Meters |
| 24 AWG / 0.20 mm ² | 2.48 | 0.758 |
| 22 AWG / 0.33 mm ² | 4.21 | 1.282 |
| 20 AWG / 0.52 mm ² | 6.43 | 1.961 |
| 18 AWG / 0.82 mm ² | 10.41 | 3.175 |
| 16 AWG / 1.31 mm ² | 16.82 | 5.128 |
| 14 AWG / 2.08 mm ² | 26.67 | 8.130 |
| 12 AWG / 3.31 mm ² | 42.05 | 12.821 |
| 10 AWG / 5.26 mm ² | 66.26 | 20.202 |
| 8 AWG / 8.37 mm ² | 104.13 | 31.746 |

NOTE: Calculations include a standard 10% buffer

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. 20 A branch circuit.
3. These products are intended for use in dry and damp locations.
4. Required spacing between power supply according to UL48.

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