

Compact LED Driver For 48VDC Constant Voltage COB or Similar Applications

Features and Benefits

- Perfect match for Xicato XIM or similar COB up to 25W
- 48VDC constant voltage output
- Low profile plastic case, industry leading small footprint
- Universal input voltage 120 - 277VAC
- High power factor
- Encapsulated for moisture resistance and long life
- Integrated circuitry provides self recovering protection from over current, over voltage and over temperature
- Includes mounting feet for mechanical attachment



PS25-48V-UNV

Compatible LED Modules

Nominal DC Output to Module 48V

Ratings and Performance Specifications

Nominal Input Voltage See Table 1
 Maximum Driver Case Temperature @ designated Tmp +80°C
 Maximum Operating Range Ambient Temperature (Ta) -20 to +50°C
 Recommended Screw Installation Torque 75 inch ounces
 Nominal Power Factor > 0.9
 Input Frequency 47 to 63 Hz
 Maximum Ripple Current 30%
 Maximum Ripple Voltage 10%
 Nominal Weight 120 grams
 Safety/Compliance UL E256805
 Designed to meet FCC Part 15B
 Designed to comply with IEEE C.62.41-1991, Class A operation
 Complies with FCC Title 47 CFR Part 15 Class B conducted
 Meets IEEE 1789-2015 Recommended Practice for Flicker

Application Notes

1. The proper driver case temperature at designated (Tmp) is critical to ensure proper performance and long life. Careful design consideration required for factors such as ambient conditions (for example weather and surrounding atmosphere inside luminaire) and proximity to heat generating components.
2. Abnormal operating conditions such as elevated ambient temperatures can negatively impact output, product lifetime and/or performance.

Physical Dimensions

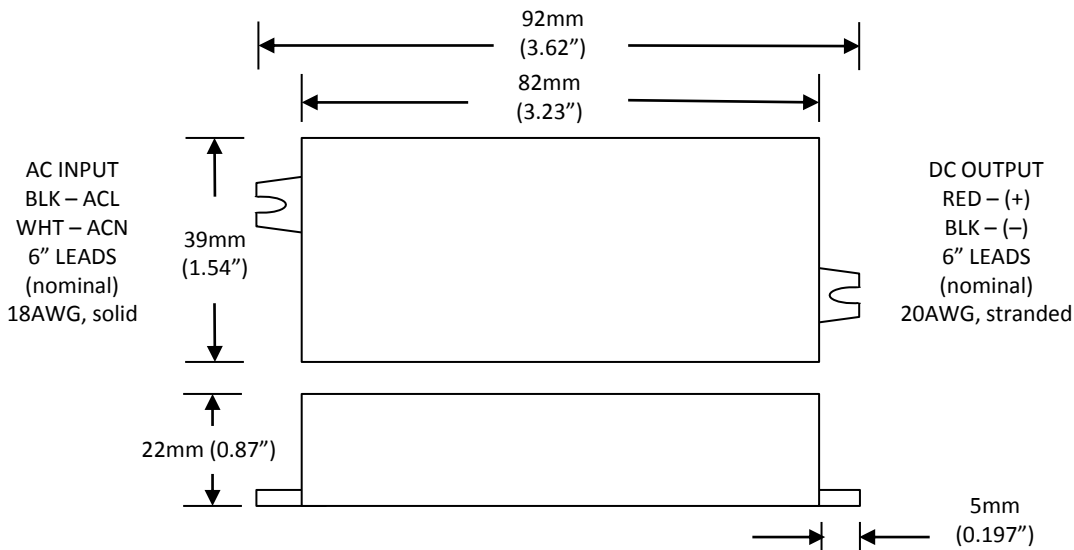


Table 1, Performance Characteristics at 25°C

Part Number	Maximum Output Power (DCW)	Nominal Input Voltage (VAC)	Maximum Output Current (mADC)	Output Voltage Range (VDC)	Maximum Output Voltage with Ripple (VDC)	Efficiency @ Max Load @120VAC	Power Factor @ Max Load @120VAC
PS25-48V-UNV	25	120-277	520	46.56 - 49.44	51	88%	0.90

Additional Performance Characteristics

Dynamic full load connection: $V_{out} = 46V$ for 150mS, recovery = 48V within 200mS

Low load condition: $V_{out} =$ stable from 0-520mA

Standby (vampire) power: 0.4W @120VAC, 1.0W @ 277VAC

Packaging

Product is marked with SKU and lot information.

Sold in groups of (1) unit(s) and packaged with SKU and lot information.

Warranty

5-Year limited warranty in accordance with published warranty conditions. Product must be used with compatible components (modules, drivers, engines and/or accessories) and no maximum ratings (such as T_s) shall be exceeded during any operating conditions of the system. If product is used with other manufacturer's product, compatibility must be recognized in writing by Forzlux.

Forzlux owns the following United States patents of which may be applicable to the design or manufacture of this product: 6712486, 6578986, 6846093, 7114831, 7306353, 7102172, 7108396, 7329024, 7387406, 7582911, 7649327, 8926145, 8729810. Additional granted patents, patents pending and other IP protection rights may apply.