

## Constant Voltage Driver For Residential and Commercial Applications

### Features & 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



### Compatible LED Drivers or Modules

Nominal DC Output to Module ..... 48V

### Ratings and Performance Specifications

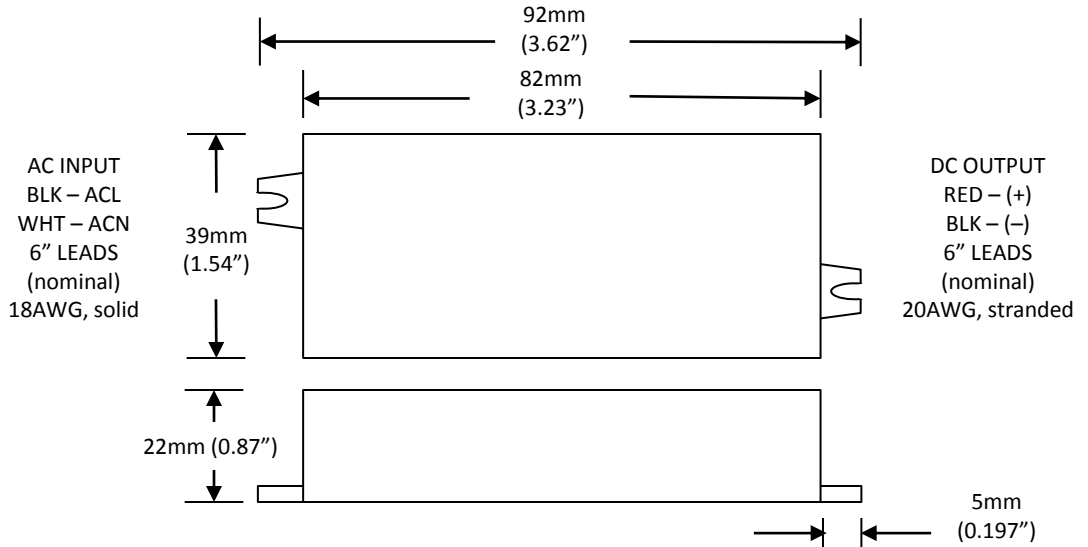
Maximum Driver Case Temperature @ designated Tmp ..... +80°C  
 Maximum Operating Range Ambient Temperature (Ta) ..... -20 to +50°C  
 Recommended Screw Installation Torque ..... 75 inch ounces  
 Nominal Power Factor ..... > 0.9  
 Input Frequency ..... 47 to 63 Hz  
 Maximum Ripple Current ..... 30%  
 Maximum Ripple Voltage ..... 10%  
 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 (T<sub>mp</sub>) 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 be expected to negatively impact output, product lifetime and/or product performance.

PS25-48V-UNV

## Physical Dimensions



**Table 1, Performance Characteristics at 25C**

Part Number	Maximum Output Power (DCW)	Maximum Input Voltage (VAC)	Maximum Output Current (ADC)	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	0.521	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. Product is sold in groups of (1) unit(s).

### 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 expected operating conditions of the system. If product is used with other manufacturer's product, compatibility must be recognized in writing by Permlight Technologies.

Permlight Technologies owns the following United States patents of which one or more may be applicable to the design and/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.