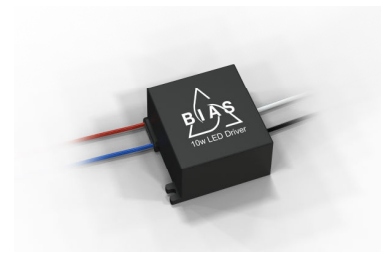# BIAS 10 Watt LED Driver Supply
BPWXL 10 Series Data Sheet
Single output
BPWXL 10-24-035 (not for new designs)
BPWXL 10-30-035

The BPWXL LED Driver is an ideal solution for numerous LED driver applications. This low-cost supply provides up to ten watts of output power for LED string voltages up to 30VDC. A patented design incorporating a custom integrated circuit into a small package, the BIAS Driver provides an immediate "drop-in" solution, requiring no additional external components. Installer friendly using flying leads for AC connections.

Features

- **Universal Input (100-308 VAC, 50/60Hz)**
- **350mA constant current, up to 30VDC strings**
- **Ingress protection to IP67**
- **Flying Leads for AC and LED connections**
- **3000 VAC Isolation**
- **82% efficiency**
- **EN 55022, Class B; FCC Part 15, Class B**
- **Meets UL/CSA and EN Product Safety Requirements (UL 8750 Class 2)**
- **Overcurrent, short circuit (shorted string), open circuit (string break) and overload protected**

Operating Specifications
(@120VAC / 60 Hz / 25°C unless otherwise specified)

Electrical	
Input Voltage Range	100-308 VAC (50/60Hz)
Output Power (Pmax)	10 W nom (50/60Hz)
Efficiency	82% nom.
Output Vo	30 VDC nom.
Output Io	350mA nom.
Line Regulation Io (Peak)	+/- 1%, Po < Pmax
Temperature Regulation Io (Peak)	+/- 2%, Po < Pmax
Isolation	3000 VAC (meets UL/CSA & EN Product Safety)
Earth Leakage @ 120 VAC	< 10 uA
Short Circuit Protection	Continuous, Pin ≤ 0.7 w @ 120 VAC
Reliability @ 25° C, MIL HDBK-217F	> 500 Khr MTBF

Environmental	
Operating Temperature	-40 to 85° C
Storage Temperature	-40 to 105° C
Ingress Protection	IP67
Mechanical	
Package Size (L x W x H)	2.3 x 2.5 x 1.25 inches
Lead Length	11", 18AWG
Connections	Line-Black, Neutral-White Output(+)-Red , Output(-)-Blue
Safety	
Safety Compliance	ETL/UL 8750 Class 2/CAN/CSA c22.2
EMI Emissions	EN 55022, Class B, FCC Part 15, Class B

DC Side View

Top View

0.096

2.300

0.165

1.250

0.500 ±.05 4 pls

0.600

11.000 ±1.0 4 pls

DC Output Leads

0.440 2 pls

2.285

2.080

0.890

0.220 2 pls

0.645

0.600

0.290 2 pls

0.105 3 pls

AC Input Leads

0.210 2 pls

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BIAS Power   **+1 847 215 2427**   Revised 02/18/2011   **www.biaspower.com**
Specifications subject to change