

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 (350mA constant current driver)
BPWXL 10-14-070 (700mA constant current driver)
BPWXLD 10-30-035 (0-10 dimmable driver)
BPWXLE 10-30-035 (ELV/Triac dimmable driver)

BPWXL 10-12-00 (constant voltage driver)

The constant current drivers handle LED string voltages up to 30VDC at 350mA or 14VDC at 700mA. The dimmable drivers adjust output current based on either 0-10 VDC reference or ELV/Triac tracking. The constant voltage driver

The BPWXL Series driver is an ideal solution for numerous LED driver applica-

A patented design incorporates a custom integrated circuit to maximize performance and keep package size small. An installer friendly design uses color coded flying leads for all connections.

Operating Specifications

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

handles LED string voltages up to 12VDC.

tions requiring up to ten watts of output power.

Electrical	
Input Voltage Range	100-308 VAC (50/60Hz)
Output Power (Pmax)	10 W nom (50/60Hz)
Efficiency	82% nom.
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
AC Input Connections	Line - Black, Neutral - White
DC Output Connections	Positive (+) - Red, Negative(-) - Blue
Dimming Connections (BPWXLD)	0-10 in - Orange, Common - Green



Features

- Universal Input (100-308 VAC, 50/60Hz)
- 350mA /30VDC string or 700mA /14VDC string or 12VDC constant voltage
- Ingress protection to IP67
- -40 to +85°C ambient, 90°C maximum case temperature
- 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







Environmental	
Operating Temperature	-40 to 85° C
Case Temperature, maximum	90° 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
Safety	
Safety Compliance	ETL/UL 8750 Class 2/CAN/CSA c22.2 (1)
EMI Emissions	EN 55022, Class B, FCC Part 15, Class B

Model Number	BPWXL 10-30-035	BPWXL 10-14-070	BPWXLD 10-30-035	BPWXLE 10-30-035	BPWXL 10-12-00
Maximum string voltage	30 VDC	14 VDC	30 VDC	30 VDC	12 VDC
Output Current	350 mA	700 mA	0 to 350 mA	0 to 350 mA	830 mA (2)
Dimming	N/A	N/A	0 to 10 VDC, Vd	ELV/Triac	N/A
Dimming Linearity	N/A	N/A	+/- 2%		N/A
Line Regulation, Io (Peak)	+/- 1%, Po < Pmax	+/- 1%, Po < Pmax	+/- 1%, Po < Pmax	N/A	N/A
Line Regulation, Vo (Peak)	N/A	N/A	N/A	N/A	+/- 5%, Po < Pmax
Dimming (0-10/common)	N/A	N/A	ORG/GRN	N/A	N/A

Note (1): Safety agency recognition pending for BPWXLD, BPWXLE, BPWXL 10-14-070 and BPWXL 10-12-00 drivers

Note (2): Rated current at maximum power. Higher current available (constant power mode) above rated power.

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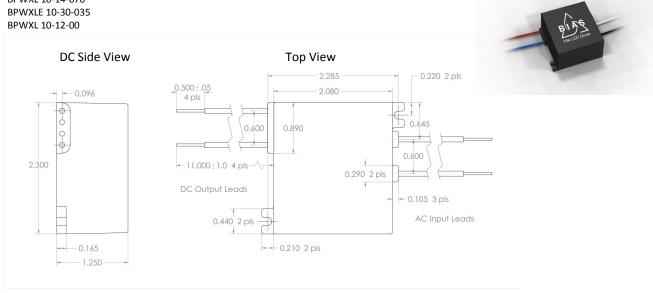
BPWXL 10-14-070 (700mA constant current driver)

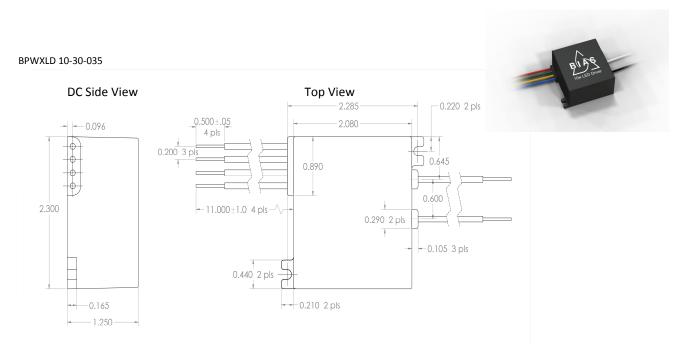
BPWXLD 10-30-035 (0-10 dimmable driver)

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BPWXL 10-12-00 (constant voltage driver)

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