



BIAS 10 Watt LED Drivers

Universal Input/Output with AOVCTM

BPWXL 10-14U-070 (700mA, constant current)

BPWXL 10-14U-070 (700mA, 0-10 dimmable)

BPWXL 10-32U-035 (350mA, constant current)

BPWXL 10-32U-035 (350mA, 0-10 dimmable)

BPWXL 10-42U-024 (240mA, constant current)

BPWXL 10-42U-024 (240mA, 0-10 dimmable)

BPWXL 10-50U-020 (200mA, constant current)

BPWXL 10-50U-020 (200mA, 0-10 dimmable)

Benefits

- Bias Adaptive Output Voltage Control, AOVCTM technology (patent pending) provides the broadest range of applications with the fewest driver SKUs and 75%+ efficiency across all string lengths
- Highly reliable, rugged construction for indoor or outdoor applications
- True 0-10 volt dimming with 1000:1 range, IEC 60929 compliant
- 1% current regulation and no flicker
- Color coded flying leads for simple assembly and installation
- AC line or DC load switching without overshoot on startup

Operating Specifications

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

Features

- Universal Input (100-308 VAC, 50/60Hz)
- Universal Output with AOVCTM (3-14 VDC@700mA), (3-32VDC@350mA), (3-42VDC@240mA) or (9-50VDC@200mA)
- 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



Electrical	
Input Voltage Range	100-308 VAC (50/60Hz)
Output Power (Pmax)	10 W nominal
String Voltage (Minimum)	3.0 VDC for all drivers
Efficiency	82% nom.
Temperature Regulation Io (Peak)	+/- 2%, Po < Pmax
Isolation	3000 VAC (meets UL/CSA & EN Product Safety)
Short Circuit Protection	Continuous, Pin ≤ 0.7 w @ 120 VAC
Reliability @ 25° C, MIL HDBK-217F	> 500 Khr MTBF
0-10 VDC Dimming, +/- 2% linearity	Per IEC 60929, Annex E
Line Regulation, Io (Pk)	+/- 1%, Po < Pmax
AC Input Connections	Line BLK, Neutral WHT
DC Output Connections	Pos(+) RED, Neg (-) BLU
Dimming (0-10 VDC) Connections	Adjust PUR/Com GRY

Environmental	
Operating / Storage Temperature	-40 to 85° C / -40 to 105° C
Case Temperature, maximum	90° 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 600V class
Safety and Standards	
Safety Compliance	ETL/UL 8750 Class 2/CAN/CSA c22.2 (1)
EMI Emissions	EN 55022, Class B, FCC Part 15, Class B
Standards Compliance	IEC61347-1, IEC61347-2-3

Model Number	Maximum String Voltage	Output Current	Dimming
BPWXL 10-14U-070	14 VDC	700 mA	N/A
BPWXL 10-14U-070	14 VDC	0 to 700 mA	0-10 VDC, Vd
BPWXL 10-32U-035	32 VDC	350 mA	N/A
BPWXL 10-32U-035	32 VDC	0 to 350 mA	0-10 VDC, Vd
BPWXL 10-42U-024	42 VDC	240 mA	N/A
BPWXL 10-42U-024	42 VDC	0 to 240 mA	0-10 VDC, Vd
BPWXL 10-50U-020	50 VDC	200 mA	N/A
BPWXL 10-50U-020	50 VDC	0 to 200 mA	0-10 VDC, Vd

5 Year Warranty - see Bias Power published warranty for specifics

BPWXL 10 Series Data Sheet, Page 1 of 2

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www.biaspower.com

Specifications subject to change



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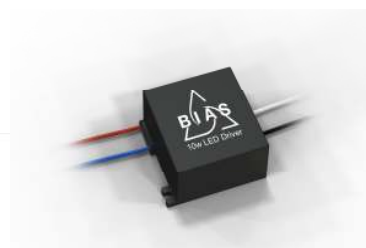
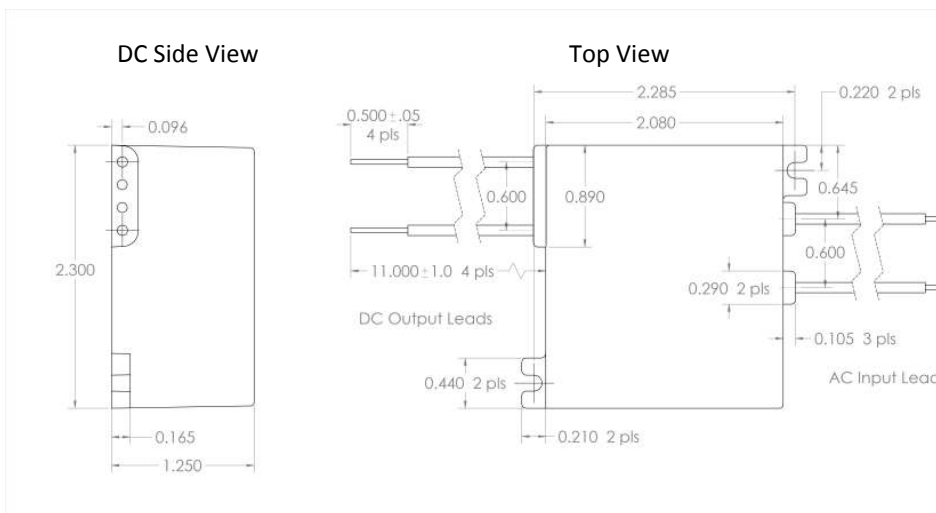
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BPWXL 10-32U-035

BPWXL 10-42U-024

BPWXL 10-50U-020

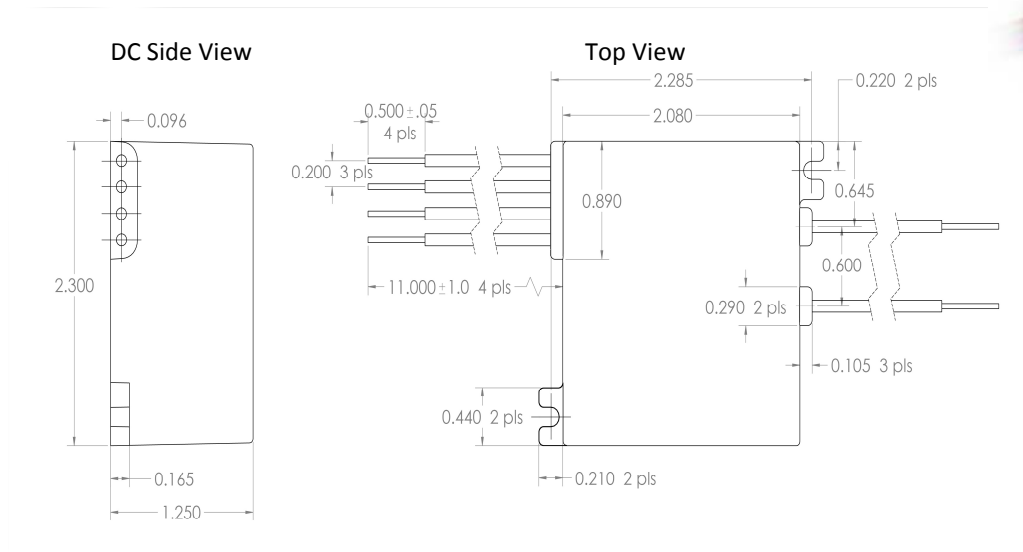


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Mouser Electronics

Authorized Distributor

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