



# BIAS 6 Watt LED Drivers

## Universal Input/Output with AOVC™

BPWXL 6-21U-035 (350mA constant current)

BPWXL 6-21U-035 (350mA, 0-10 dimmable)

BPWXL 6-9U-070 (700mA constant current)

BPWXL 6-9U-070 (700mA, 0-10 dimmable)



### Benefits

- Bias Adaptive Output Voltage Control, AOVC™ technology (patent pending) provides the broadest range of applications with the fewest driver SKUs and 70%+ efficiency across all string lengths
- Highly reliable, rugged construction for indoor or outdoor applications
- True 0-10 volt dimming with 1000:1 range
- 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

### Features

- Universal Input (100-308 VAC, 50/60Hz)
- Universal Output with AOVC™ (3-21VDC@350mA) or (3-9VDC@700mA)
- Ingress protection to IP67
- -40 to +85°C ambient, 90°C maximum case temperature
- Flying Leads for AC and LED connections
- 3000 VAC Isolation
- 75% 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)	6 W nom (50/60Hz)
String Voltage (Minimum)	3.0 VDC
Efficiency	75% 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

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)	1.9 x 1.74 x 0.94 inches
Lead Length	11", 18AWG
Safety	
Safety Compliance	UL 8750 Class 2/CAN/CSA c22.2
EMI Emissions	EN 55022, Class B, FCC Part 15, Class B

Model Number	BPWXL 6-21U-035	BPWXL 6-21U-035	BPWXL 6-9U-070 (1)	BPWXL 6-9U-070 (1)
Output Voltage, max string Volts	21 VDC	21 VDC	9 VDC	9 VDC
Output Current	350 mA	350 mA	700 mA	700 mA
Dimming	N/A	0 to 10 VDC, Vd	N/A	0 to 10 VDC, Vd
Dimming Linearity	N/A	+/- 2%	N/A	+/- 2%
Line Regulation, Io (Peak)	+/- 1%, Po < Pmax	+/- 1%, Po < Pmax	+/- 1%, Po < Pmax	+/- 1%, Po < Pmax
Line Regulation, Vo (Peak)	N/A	N/A	N/A	N/A
AC Input Connections	Line - BLK, Neutral -WHT	Line - BLK, Neutral -WHT	Line - BLK, Neutral -WHT	Line - BLK, Neutral -WHT
DC Output Connections	Pos(+) - RED, Neg (-) - BLU	Pos(+) - RED, Neg (-) - BLU	Pos(+) - RED, Neg (-) - BLU	Pos(+) - RED, Neg (-) - BLU
Dimming (0-10 / Common)	N/A	Pos(+) - ORG Neg (-) - GRN	N/A	Pos(+) - ORG, Neg (-) - GRN

Note (1): 700 mA units are pending safety agency approval.



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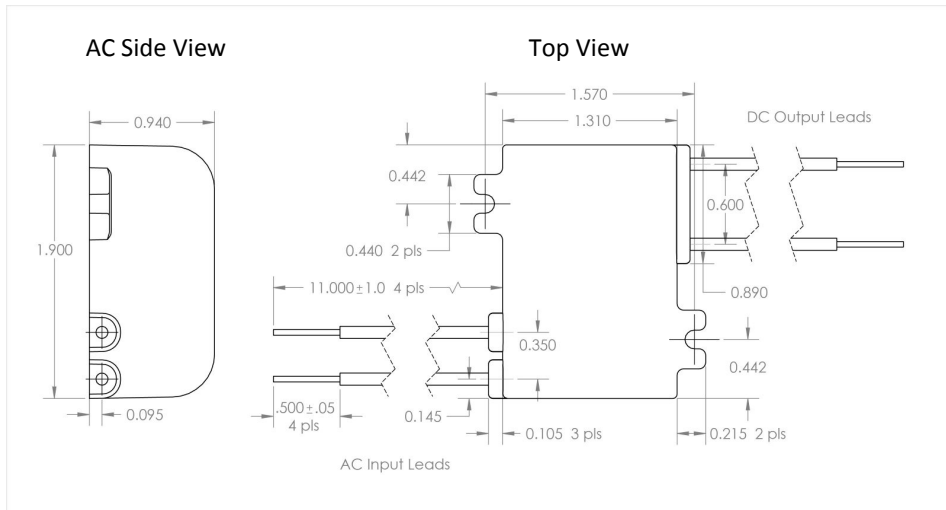
BPWXLD 6-21U-035 (350mA, 0-10 dimmable)

BPWXL 6-9U-070 (700mA constant current)

BPWXLD 6-9U-070 (700mA, 0-10 dimmable)

BPWXL 6-21U-035

BPWXL 6-9U-070



BPWXLD 6-21U-035

BPWXLD 6-9U-070

