

## Linear Lighting Pro Dimmable Series XLAVP100

XLAVP100 is a universal input (90-305VAC), 100 Watt phase dimmable LED driver with constant voltage output. Developed for linear lighting applications, this LED driver series comes in UL Listed Class 1 and Class 2 types and features patent pending, deep dimming technology with 0-100%, flicker free dimming and wide compatibility with phase-cut LED dimmer switches such as TRIAC/ELV and SCR type dimmers. Dimming is synchronized and load independent allowing for uniform light output for small and large installations. This unit is IP 65 rated and suitable for both indoor and outdoor installations. Options for additional wiring compartments and digital dimming are available.

### Features

- Wide Dimmer compatibility-supports most phase type dimmers in the market, including leading edge and trailing edge, electronic low voltage (ELV), TRIAC, and SCR dimmers.
- Dimming Range: 0-100%
- Integral 0 -10V Dimming options available
- Integral wiring compartments for reduced installations costs
- Active Power Factor Correction, PF > 0.9
- Energy Star Compliant
- Built - in protection: SCP,OTP,OV,POCP
- UL Class 2, cUL, CE, FCC Title 47 CFR 15 Class B, PSE, CCC
- IP 65
- 3 years warranty



# XLAVP100

## Constant Voltage Dimmable LED Driver



### Model Selection Key

XLAVP100-BCV-D

- SI: Waterproof standard aluminum housing
- SSB: Aluminum housing with easy install wiring compartments
- B: 1 channel output
- C: Max Vout
- V: Voltage
- Max Output Power
- Series Name

Model Number	Input Voltage Range (V <sub>AC</sub> )	Channel(s) Output	Output				Max. Output Power per Channel (W)	Rated Output Power (W)	
			Vout (VDC)	Loading Current (with dimmer) per Channel (A)		Loading Current (without dimmer) per Channel (A)			
				min	max	min			max
XLAVP100-112V-□	100-277V	1	12	2.50	8.33	0	8.33	100	100
XLAVP100-124V-□	100-277V	1	24	1.20	4.00	0	4.00	100	100

□=SSB: Aluminum housing with easy install wiring compartments; SI: Waterproof standard aluminum housing;

\* Dimming performance is not guaranteed when the loading current is below the min. value mentioned in the above table.

## Input Specification

Voltage Range	Frequency Range	Max Inrush Current	Power Factor	Max Input Current:	THD
100-277Vac	47-63 Hz	2A @ 120Vac; 5.5A @ 240Vac	0.9 min	1.2 A @ 85% Efficiency	<20% @ full load

## Output Specification

Max Power	100 W	Noise/Ripple	10% of Rated Output Voltage*
Line Regulation	+/- 10% Max	Short Circuit Protection	Hiccup-Mode, Auto-Recovery upon removal of short circuit condition.
Current Regulation	N/A	Over Voltage Protection	105% of Voltage (typ) Min
Efficiency	80%(min)	Over Current Protection (OCP)	Hiccup-mode
Start-up Time	1 sec. Typical	Over Temperature Protection	Shutdown- auto recovery
Hold-up Time	0.5mS @ full load, 100V <sub>AC</sub> input	Load regulation	< 5%
PWM frequency	1 kHz		

\* All noise measurements made at the output terminals, connected to a 20MHz low pass filter.

## Environmental Specifications

MTBF	Cooling	Operating Temp	Storage Temp	Relative Humidity
80,000 hours (Full load @ 25°C Ambient, Based on MIL-217F)	Convection	-40°C to 60°C (Full load)	-40°C to 85°C	5% - 95 %

## Compliance / Safety

EMI/RFI	ISPR-22 Class B FCC part 15 Class B EN55015, EMC
Safety Agency	UL 1012, 1310 Class 2, UL 8750, UL 879, CSA C22.2 No.107.1 CE(IEC/EN61347-1, IEC/EN61347-2-13)
Weatherability	IP 65; UL Wet Locations(SSB version)

## Mechanical

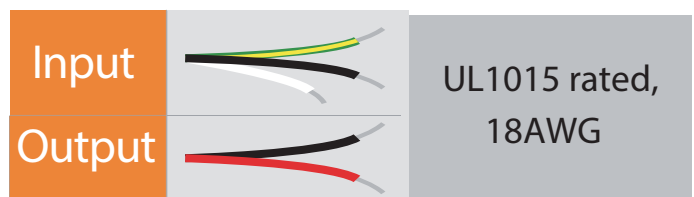
### Material:

SSB : NEMA 3 Design with aluminum extruded enclosure, with UL94 5VA polycarbonate wiring compartments, fully potted PCB.

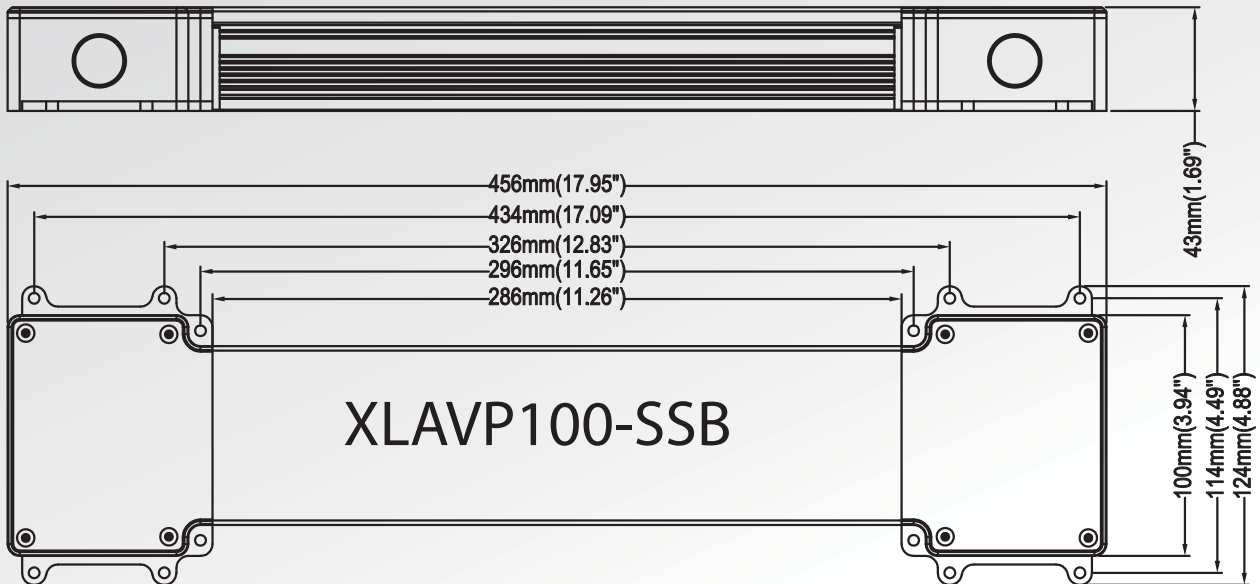
SI : NEMA 3 Design with aluminum extruded enclosure, with IP65 Waterproof, fully potted PCB.

## Supported Dimming Options:

TRIAC/ ELV (Trailing/Leading Edge)/ SCR



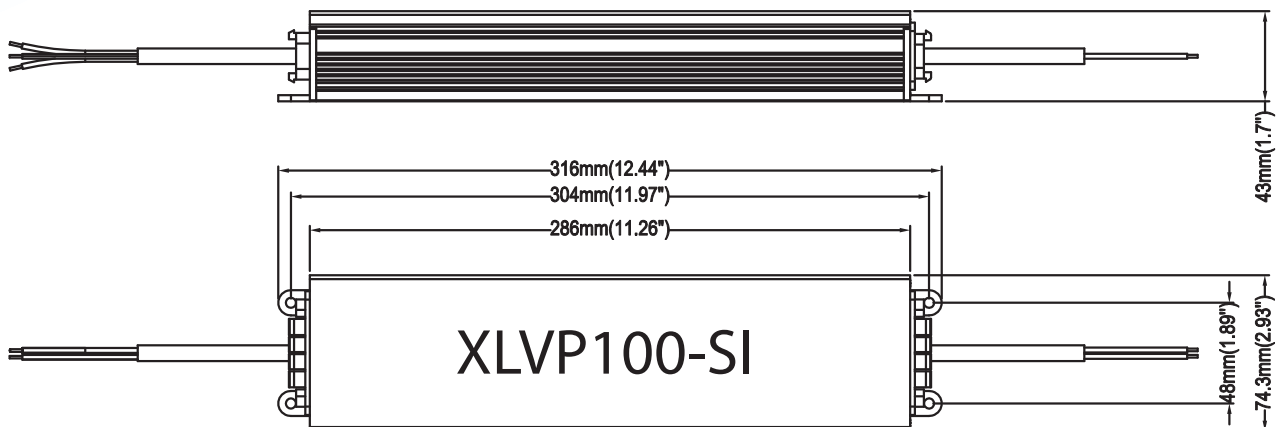
## Mechanical and Wiring Diagrams



### Packing Information:

6 pcs/carton;

(L)508\*(W)318\*(H)\*268 (mm)



### Packing Information:

6 pcs/carton;

(L)378\*(W)237\*(H)\*268 (mm)

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Preliminary datasheet for reference only