

Linear Lighting Pro Dimmable Series XLAVP(L)100

XLAVP(L)100 is a 60 and 100 Watt phase dimmable LED driver with constant voltage output. Developed for linear lighting application, this LED driver series comes in UL Listed Class 2 type 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 units is IP65 rated and suitable for both indoor and outdoor installations. Options for additional wiring compartments and digital dimming are available.

Features

- Wide Dimmer compability-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 1-10V Dimming options available
- Integral wiring compartments for reduced installaion costs
- Active Power Factor Correction, PF>0.9
- Energy Star Compliant
- Built-in protection: SCP, OTP, OVP, OCP
- UL Class II, cUL, CE, FCC Title 47 CFR 15 Class B
- IP 65
- 3 years warranty

XLAVP(L)100

Constant Voltage Dimmable LED Driver



Model Selection Key

XLAVP(A)100-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

L: 100-120 Vac Input

Series Name

Model Number	Input Voltage Range (V _{AC})	Channel(s) Output	Output				Max Output Power (W)	Rated Output Power (W)	
			Vout (V _{DC})	Loading Current (with dimmer) per Channel(A)		Loading Current (without dimmer) per Channel(A)			
				min	max	min			max
XLAVP(L)100-112V-□	100-120V	1	12	1.50	5.00	0	5.00	60	60
XLAVP(L)100-124V-□	100-120V	1	24	1.20	4.00	0	4.00	96	96

□ = 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
100-120 Vac	47-63 Hz	30A @ 120Vac;	0.9 min	1.2 A @ 85% Efficiency	<20% @ full load

Output Specification

Max Power	100 W	Noise/Ripple	2% of Rated Output Voltage*
Line Regulation	+/- 5% Max	Short Circuit Protection	Latch Mode
Current Regulation	N/A	Over Voltage Protection	105% of Voltage (typ) Min
Efficiency	80%(min) 12V 85%(min) 24V	Over Current Protection (OCP)	Latch Mode
Start-up Time	1 sec. Typical	Over Temperature Protection	Latch Mode
Hold-up Time	0.5mS @ full load, 100V _{AC} 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

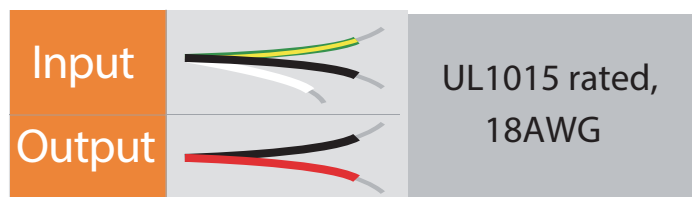
MTBF	Cooling	Operating Temp	Storage Temp	Relative Humidity
80,000 hours (Full load @ 25°C Ambient, Based on MIL-217F)	Convection	-40°C to 60°C (Full load)	-40°C to 85°C	5% - 95 %

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
Weatherability	IP 65; UL Wet Locations(SSB version)

Supported Dimming Options:

TRIAC/ ELV (Trailing/Leading Edge)/ SCR



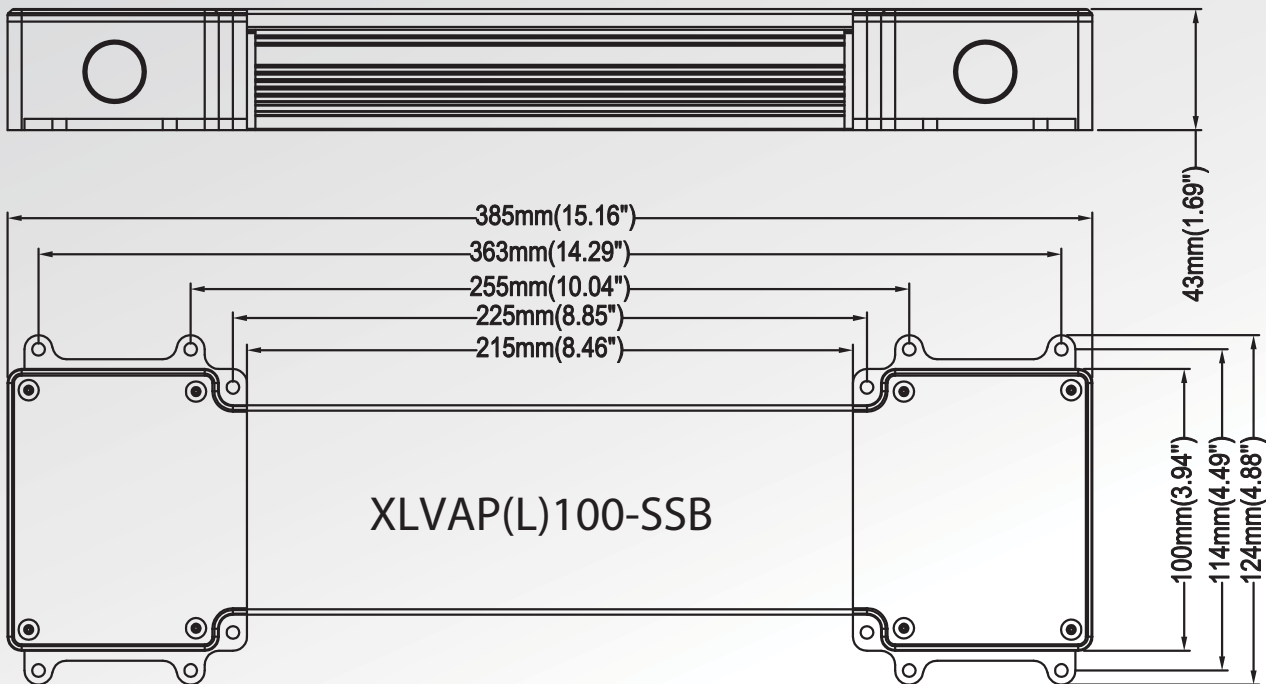
Mechanical

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.

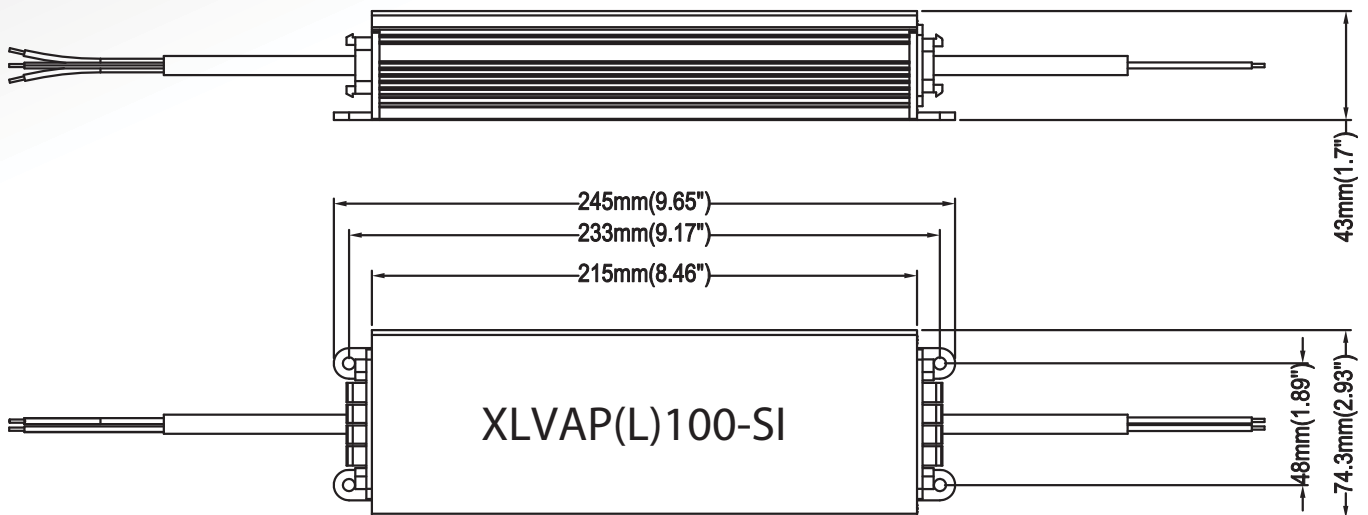
Mechanical and Wiring Diagrams



Packing Information:

6 pcs/carton;

385(L)*124(W)*43(H) (mm)



Packing Information:

6 pcs/carton;

245(L)*74.3(W)*43(H) (mm)

Information furnished is believed to be accurate and reliable. However, GRE Alpha assumes no responsibility for the consequences of use of such information nor for any infringement of patents or other rights of third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of GRE Alpha. Specifications mentioned in this publication are subject to change without notice. This publication supersedes and replaces all information previously supplied.

The GRE Alpha logo is a registered trademark of GRE Alpha Electronics Ltd.

All other names are the property of their respective owners

Copyright © 2017 GRE Alpha. All rights reserved. Reproduction in whole or in part without permission is prohibited.

XLVAP100_201704
 Preliminary datasheet for reference only