



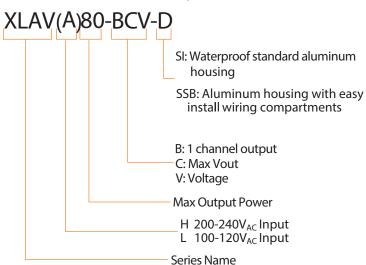
C€ F©

(RoHS



XLAV80-SSB XLAV80-SI

Model Selection Key



Linear Lighting Pro Dimmable Series XLAV80

The Linear Lighting Pro Series is the ideal, dimmable powering solution for linear lighting applications. The XLAV80 is a 80W UL Class II, Constant-Voltage, phase dimmable, LED driver, capable of providing full range, 0-100%, smooth, flicker-free dimming. Tested with over 70 dimmer brands on the market, this unit works with both forward/reverse phase (TRIAC/ELV) type dimmers, and is unsurpassed in dimmer compatibility and performance. This unit comes in two versions - A compact version (SI) for space constrained applications, and a UL listed version (SSB), with patent pending, integral wiring compartments for easy installation.

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

Model N	Number			Output				Мах	Rated
100-120V _{AC} Models	200-240V _{AC} Models	Channel(s) Output	Vout (VDC)	(A)		Loading Current (without dimmer) per Channel (A)		Output Power per Channel	Output Power (W)
				min	max	min	max	(W)	max
XLAV(L)80-112V-🛛	XLAV(H)80-112V-🛛	1	12	2.28	6.50	0.33	6.50	78	80
XLAV(L)80-124V-🛛	XLAV(H)80-124V-🛛	1	24	1.16	3.30	0.17	3.30	79.2	80

 \boxtimes = SSB: Aluminum housing with easy install wiring compartments or 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 Max Inrush Current Power Max Input Range Factor Current: XLAV(L) Low Input: 90-130 V_{AC} XLAV(L): 120V_{AC} @ 25 $^\circ\text{C}$, cold start-up 47-63 Hz 0.9 min 1.1 A @ 100 V_{AC} Input XLAV(H) High Input: 200-240V_{AC} XLAV(H): 240V_{AC}@ 25 °C , cold start-up THD <20% @ full load

Output Specification

Max Power	80 W	Noise/Ripple	10% of Rated Output Voltage*			
		Chart Circuit Drotostion	Hiccup-Mode, Auto-Recovery upon removal of short circuit			
Line Regulation	+/- 10% Max	Short Circuit Protection	condition.			
Current Regulation	N/A	Over Voltage Protection	105% of Voltage (typ) Min			
Efficiency	80%(min)	Over Current Protection (OCP)	Voltage Reduce			
Start-up Time	< 500 ms	Over Temperature Protection	Shutdown- auto recovery			
Hold-up Time	0.5mS @ full load, 100V _{AC} input	Load regulation	< 5%			

* 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				

Mechanical

Material:

NEMA 3 Design with aluminum extruded enclosure, with IP65 Waterproof, fully potted PCB. Supported Dimming Options:

TRIAC/ ELV (Trailing/Leading Edge)/ SCR

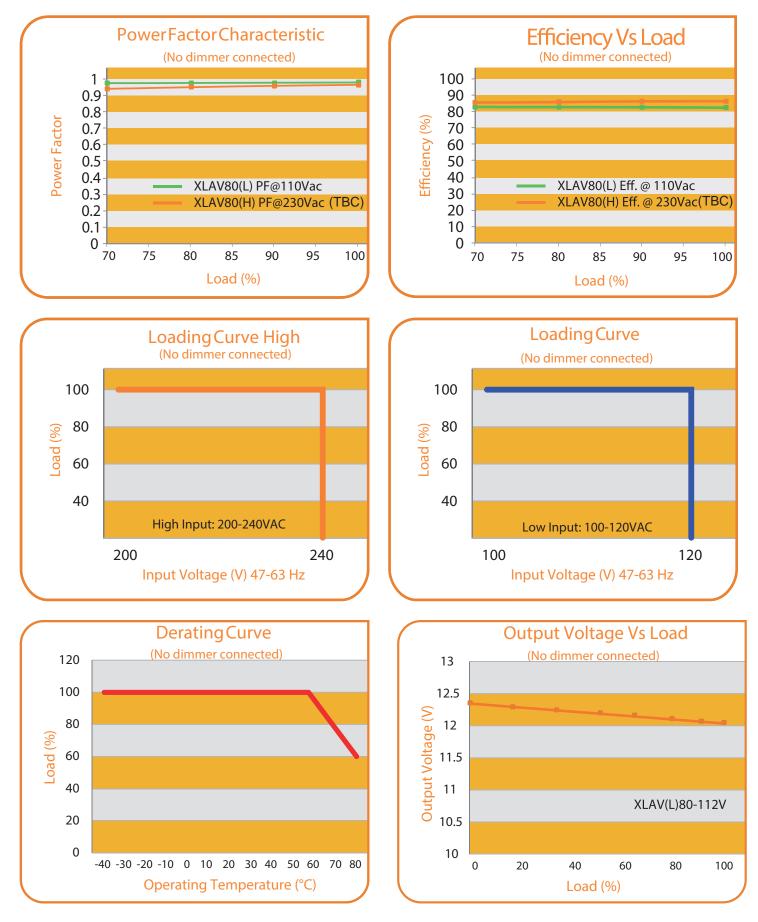


Expected Life-time*						
Tc	65°C	75°C				
Life-time	50,000h	30,000h				
* @ Full load based on a failure rate of < 100/						

*: @ Full load, based on a failure rate of < 10%

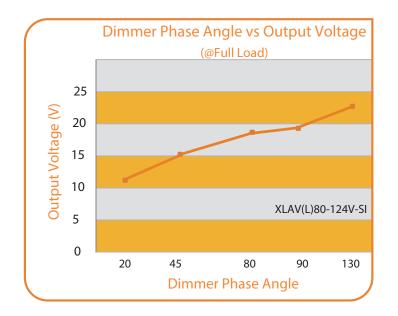


Performance Curves

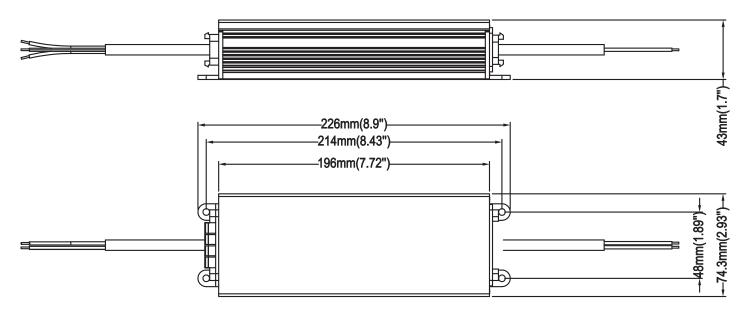


Copyright © 2015 GRE Alpha. All rights reserved. Reproduction in whole or in part without permission is prohibited.





Mechanical and Wiring Diagrams



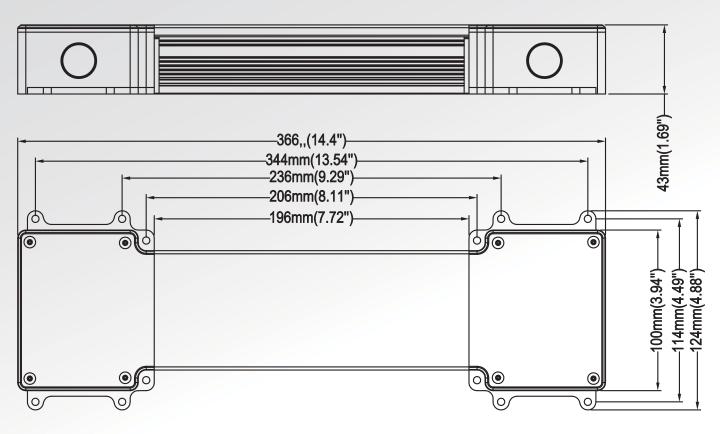
XLAV80-SI

Packing information Weight:1.4kgs/pcs, 8.1kgs/carton; 6pcs/carton, L288xW237xH268(mm)

Copyright © 2015 GRE Alpha. All rights reserved. Reproduction in whole or in part without permission is prohibited.



Mechanical and Wiring Diagrams



XLAV80-SSB

Packing information Weight:1.4kgs/pcs, 9.9kgs/carton; 6pcs/carton, L418xW318xH267(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