





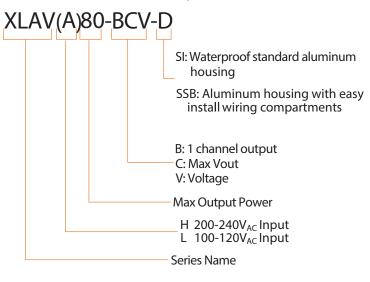






XLAV80-SSB XLAV80-SI

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	Number			Output				Max	Rated Output Power (W)
100-120Vac Models	Channe 20Vac Models 200-240Vac Models Outpu		Vout (VDC)	Loading Current (with dimmer) per Channel (A)		Loading Current (without dimmer per Channel (A)		Output Power per Channel	
			(VDC)	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)80-124√⊠	XLAV(H)80·124V-⊠	1	24	1.16	3.30	0.17	3.30	79.2	80

X = SSB: Aluminumhousing 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

* UL marking: for products manufactured in Vietnam only, effective October 2020.



Input Specification								
Voltage Range		Frequency Range	Max Inrush Current	Power Factor	Max Input Current:			
XLAV(L) Low Input: 90-130 V _{AC} XLAV(H) High Input: 200-240V _{AC}		47-63 Hz	XLAV(L): $120V_{AC}$ @ 25 °C , cold start-up XLAV(H): $240V_{AC}$ @ 25 °C , cold start-up	0.9 min	1.1 A @ 100 V _{AC} Input			
THD	<20% @ full load							

Output Specification						
Max Power	80 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)	Voltage Reduce			
Start-up Time	Time < 500 ms Over Temperature Protection		Shutdown- auto recovery			
Hold-up Time	0.5mS @ full load, 100V _{AC} input	Load regulation	< 5%			

 $^{^{\}ast}$ 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	ID 65				

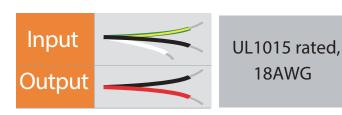
Mechanical

Material:

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

Supported Dimming Options:

TRIAC/ ELV (Trailing/Leading Edge)/ SCR



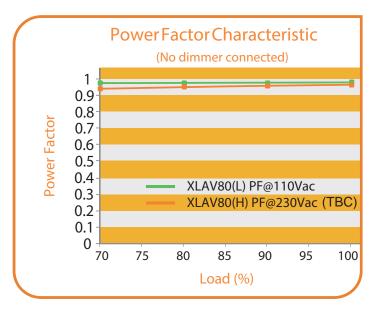
Expected Life-time*

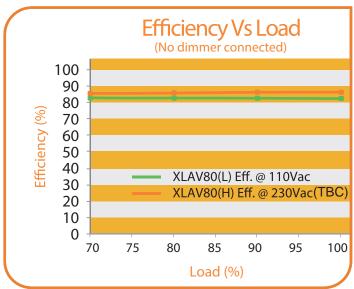
Тс	65°C	75°C
Life-time	50,000h	30,000h

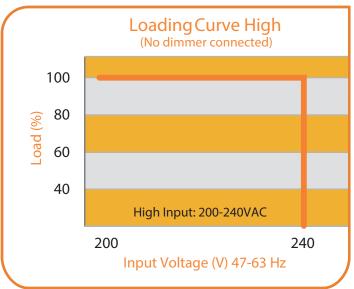
^{*: @} Full load, based on a failure rate of < 10%

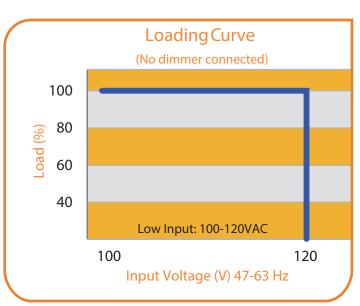


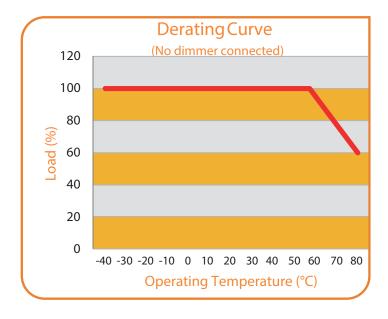
Performance Curves

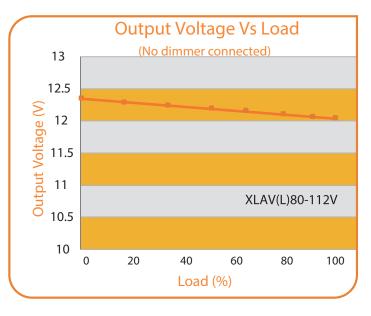




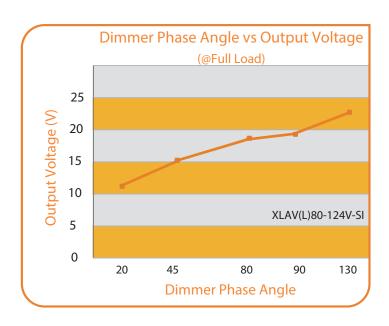




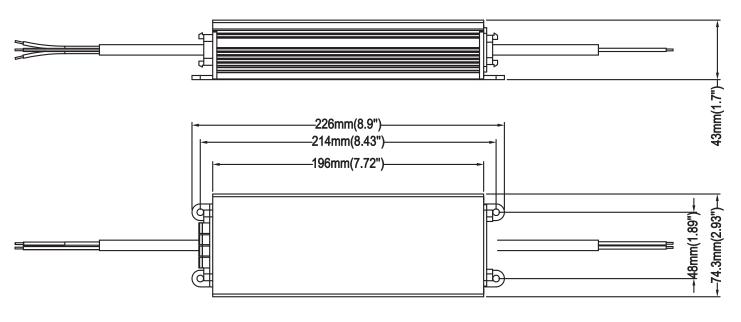








Mechanical and Wiring Diagrams

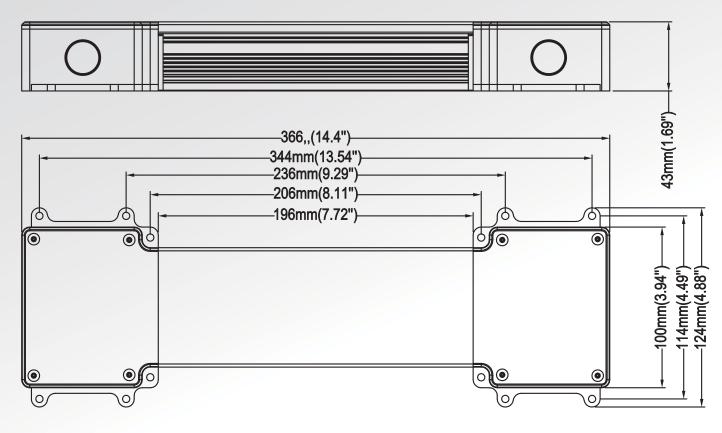


XLAV80-SI

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



Mechanical and Wiring Diagrams



XLAV80-SSB

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

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