





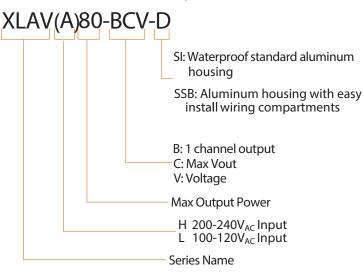






XLAV80-SSB XLAV80-SI

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	
100-120Vac Models	200-240V _{AC} Models	Channel(s) Output	Vout (VDC)	/ !	urrent (with er Channel A)	(without d	Current limmer)per nel (A)	Output Power per Channel	Output Power (W)
			(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 Sp	nput Specification							
Voltage Range		Frequency Range	Max Inrush Current	Power Factor	Max Input Current:			
	Input: 90-130 V _{AC} n 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	< 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				

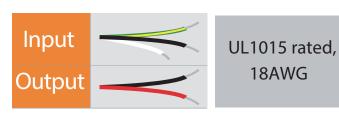
Mechanical

Material:

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

Supported Dimming Options:

TRIAC/ ELV (Trailing/Leading Edge)/ SCR



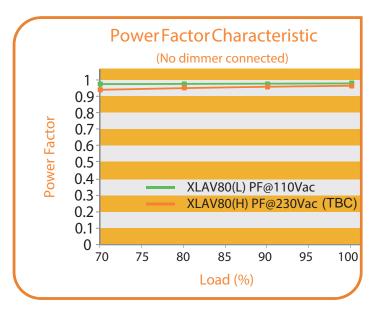
Expected Life-time*

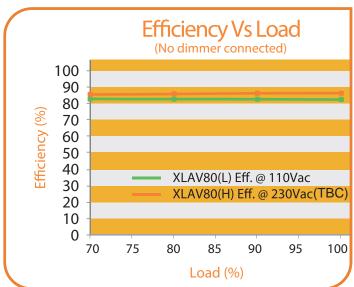
Тс	65°C	75°C		
Life-time	50,000h	30,000h		

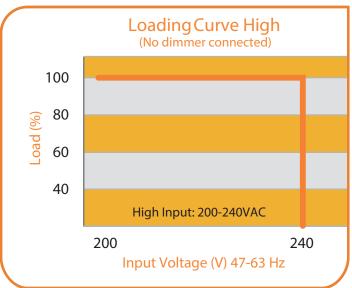
^{*: @} Full load, based on a failure rate of < 10%

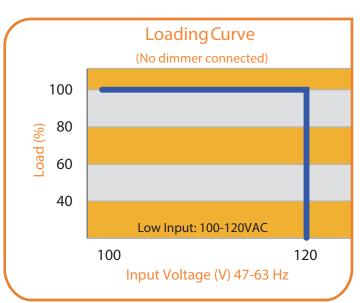


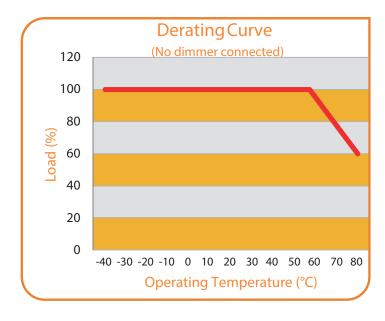
Performance Curves

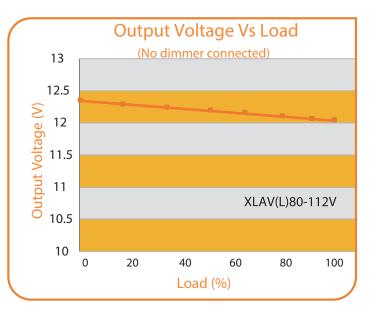




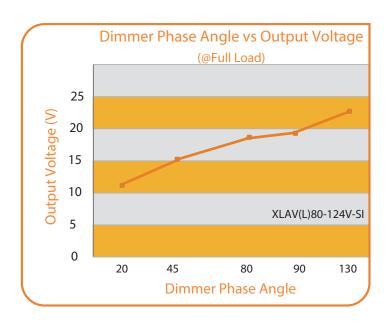




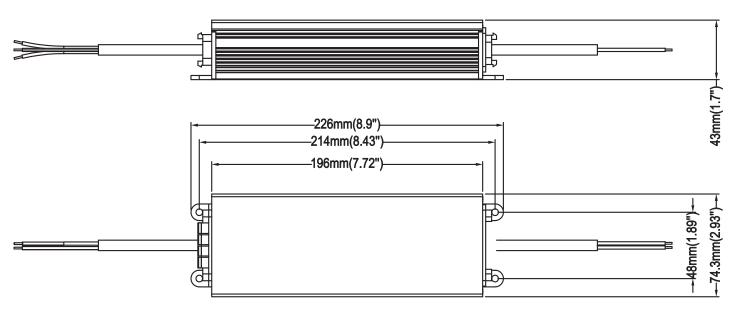








Mechanical and Wiring Diagrams

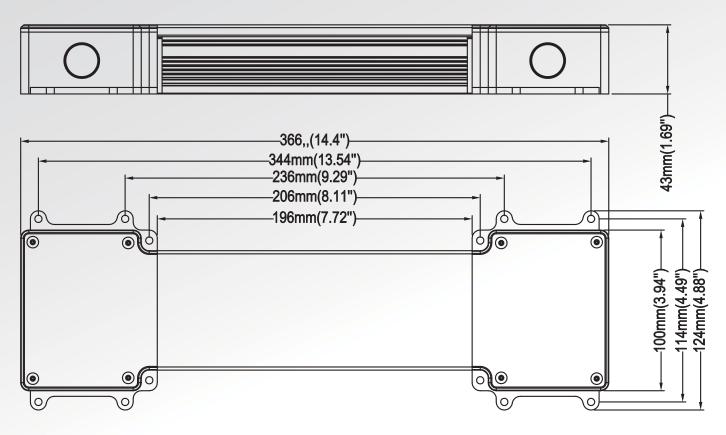


XLAV80-SI

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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