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# VAL-60-24

Everylite Datasheet Ver 3.0.0  
Revision Date 07/2021



## Description

VAL-60-24 Class 2 LED power supply is a high efficiency and high performance power solutions for LED signage and other outdoor applications by featuring a wide input voltage range 100-277VAC with PFC function, surge, over voltage, over current, over temperature and short circuit protections. With the highest waterproof grade of IP68, it is designed to work under a wide range of environmental conditions with multiple protection functions for wide operating temperatures -22°F to +113°F.

## Features

- 100-277VAC nominal input voltage
- Active power factor correction PF≥0.9
- IP68 aluminum case with silicone encapsulated designed for indoor or outdoor applications, suitable for dry, damp and wet locations.
- Built-in PFC function
- Fire-retardant rating UL94 V-0
- Protections: Short circuit, over current, over voltage, over temperature with auto recovery
- Compliance to worldwide safety regulations for lighting: UL, CE, FCC, RoHS



## Specification

Output Characteristics	
Rated Output Voltage	24V
Rated Output Current	5A
Rated Output Power	60W
Output Voltage Accuracy	±2% (23.52 -24.48V)
Output ripple & noise	≤240mV

Environmental Characteristics	
Vibration	10-500HZ,5G, 30 minutes (for X, Y, Z each axis)
IP Grade	IP68
Storage Humidity	10-95%RH
Storage Temperature	-40°F~+185°F
Working Humidity	20-95%RH (non-condensing)
Working Temperature	-22°F~+113°F

Safety and EMC	
Safety Standard	IP68 UL8750, UL1310, UL879 .IEC61347 - 2/ IEC61347 - 1 - 13
Dielectric Strength (Hi-Pot)	I/P-O/P 3.75KVAC/ 10mA/ 3S
	I/P-Case 1.8 KVAC/ 10mA/ 3S
Insulation Resistance	100MOhm Max/ 500VDC/ 3S
Grounding Resistance	100MOhm
EMC	FCC part 15 class B EN55015

Input Characteristics	
Input Voltage Range	90VAC-300VAC
Input Frequency Range	50-60HZ
Input Current	0.9A @ 110V
	0.45A @ 220V
	0.36A @ 277V
Inrush Current (cold start)	≤60A (230VAC)
Efficiency	≥87%

Protective Characteristics	
Over-Temperature Protection	Yes
Over-Voltage Protection	Yes
Short-Circuit Protection	Yes
Over-Current Protection	Yes

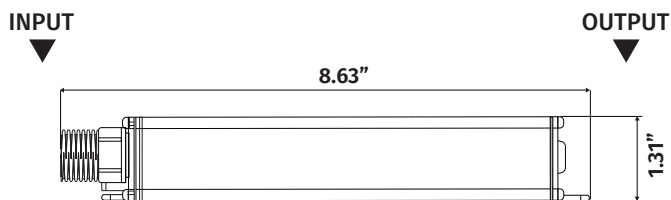
Other Characteristics	
MTBF	≥30000hrs. MIL-HDBK-217F(77°C )
Size	6.25"x2.18"x1.31"(L*W*H)
Weight	1.15 lbs

## Notes

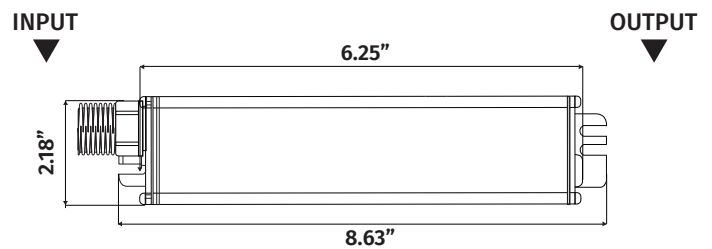
- Test environment temperature: 77 ± 3.6°F
- Please ensure that the ground wire is properly grounded and ensure it does not come into contact with the neutral wire.
- Please ensure the power supply position has sufficient airflow. Operating temperature must be between -22°F to +113°F.
- Do not overload the power supply with multiple appliances.
- Power supply operates at high temperature. To avoid injury, do not touch while in use.
- Do not install with power connected or during an electrical disturbance.
- To be installed by a certified electrician. Please contact the supplier with any questions.

## Drawing

Unit: inches











SIDE VIEW



TOP VIEW

## Label Drawing

<b>INPUT</b> 100-277VAC 50/60Hz 1.5A Max		LED Driver: For LED Only <b>VAL-60-24</b>		     	TA 45°C TC 85°C	• 1-888-567-4533 • www.everylite.com • Made in China • Date Code: YYWW • <b>Constant Voltage</b> • <b>Class 2 Power Supply</b> • Suitable for Dry, Damp and Wet Locations	White Black
		 VAL-60-24	S/N: _____ 307-05-915		<b>SELV IP68</b>		<b>OUTPUT</b> 24V ± 2.5A

