

Date:

Type:

Firm Name:

Project:



ALA-60-12-K

Everylite Datasheet Ver 3.0.0
Revision Date 08/2021



Description

ALA-60-12-K Class 2 LED power supply is a high efficiency power solutions for LED signage and other outdoor applications by featuring a wide input voltage range of 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 between -40°F to +122°F.

Features

- 100-277VAC nominal input voltage
- IP68 plastic case with silicone encapsulated designed for indoor or outdoor applications, suitable for dry, damp and wet locations.
- Protections: Short circuit, over current, over voltage, over temperature with auto recovery
- Compliance to worldwide safety regulations for lighting: UL, CE, FCC
- 5 years product warranty



Specification

Output Characteristics	
Rated Output Voltage	12V
Rated Output Current	5A
Rated Output Power	60W
Output Voltage Accuracy	±5% (11.4-12.6V)
Output ripple & noise	400mVp-p

Environmental Characteristics	
Vibration	10-500HZ, 5G, 12 min./1 cycle period for 72 min. (for X, Y, Z each axis)
IP Grade	IP68
Storage Humidity	10-95%RH
Storage Temperature	-40°F~+158°F
Working Humidity	20-95%RH (non-condensing)
Working Temperature	-40°F~+122°F

Safety and EMC		
Safety Standard		IP68 UL, FCC, CLASS II, RoHS
Dielectric Strength (Hi-Pot)	I/P-O/P	3.75KVAC
	I/P-Case	2.0KVAC
Isolation Resistance		100MOhm Max/ 500VDC
Grounding Resistance		100MOhm
EMC		FCC part 15 class B

Input Characteristics	
Input Voltage Range	100-277VAC
Input Frequency Range	50-60HZ
Input Current	0.97A @ 115V
	0.55A @ 230V
Inrush Current (cold start)	≤40A (230Vac)
Efficiency	≥87%

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

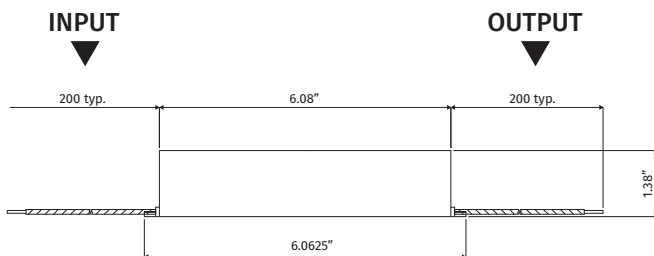
Other Characteristics	
Size	6.08"x1.65"x1.38"(L*W*H)
Weight	0.73 lbs

Notes

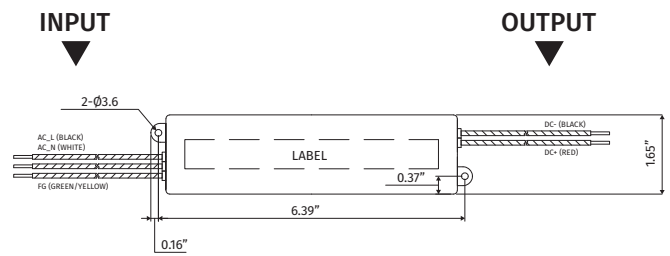
- All Parameters not specially mentioned are measured at 220VAC.
- Test environment temperature : 77°F
- Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with 0.1uF & 47uF parallel capacitor.
- The above data are typical values; the actual data of each single product could differ from the typical values.
- The data subject to change without prior notice.
- 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 -40°F to +122°F.
- 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

100-277V
50/60Hz

AC-input

○—FG yellow-green

○—L black

○—N white

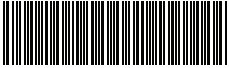




ALA-60-12-K

LED Driver: For LED Only

SELV RoHS IP68



ALA-60-12-K

Class 2 Power Outputs

Efficiency	87%
TA	-40~50°C
TC	158°F
Output Voltage	12V
Output Power	60W
PF	0.6 max

• 1-888-567-4533

• www.everylite.com

• Made in Korea

Constant Voltage

Class 2 Power Supply

• Suitable for Dry, Damp and Wet Locations

DC-output

+ —○

red

- —○

black