Constant Voltage LED Power Supply- Class 2

ACV125-120-277V



Overview

Compact yet reliable, the Allanson ACV125-120-277V Constant Voltage LED Power Supply delivers a consistent single-channel 12V DC output at up to 60W. Designed for universal 120–277V AC input operation, it meets UL Class 2, Class P, and CSA standards, ensuring compliance and safety. Featuring full protection circuitry and suitability for dry and damp environments, this unit is ideal for residential, commercial, and specialty lighting applications where space, efficiency, and reliability are essential.

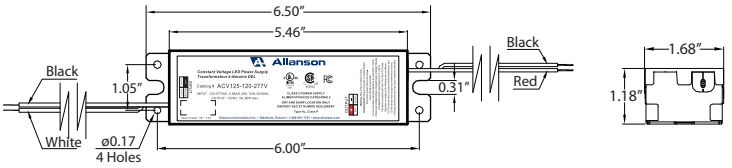
Explore

Where to Buy

Features

- Single- channel constant voltage 12V DC output
- Wide input operating range: 120–277V AC
- UL Class 2, CSA certified
- Comprehensive protection: over-voltage, over-current, short-circuit, and over-temperature
- Compatible with all 12V DC LED lighting products
- Approved for dry and damp environments
- 5-year warranty included

Dimensions



Specifications

Part Number	ACV125-120-277V
Output Channel	1
Output Voltage	12V DC
Output Current	5.0A
Max. Output Power	60W
Input Voltage	120-277V AC
Input Frequency	50/60Hz
Power Factor	HPF >0.95 @120-277V
Max Input Current	0.59A @120V / 0.26A @277V
Efficiency at Full Load	85.0% @120V / 85.7% @277V
Safety Standard	UL8750, Class 2, Class P, Type HL, CSA
Protective Characteristics	Over- voltage / Over- current/ Short- circuit/ Over-temperature
EMC	FCC 47CFR Part 15, Subpart B, Class A
Surge Protection	L-N and L-G, N-G, L&N-G, ANSI C62.41-Category A1 with a 2.5kV/100kA ring wave
UL Environmental Suitability	Dry and damp locations
Operating Temperature	-40°C ~ 55°C / -40°F ~ 131°F
Storage Temperature	-40°C ~ 85°C / -40°F ~ 185°F
Relative Humidity	10% to 90% non- condensing
Storage Relative Humidity	5% to 95% non- condensing
Net Weight	0.84lbs / 0.38kg
Dimensions (LxWxH)	6.50" x 1.68" x 1.18" / 165.1mm x 43.0mm x 30.0mm
Warranty	5 Years

Installation & Operating Instructions

- Do not install with power connected or during an electrical disturbance.
- Ensure that the ground wire is properly grounded and ensure it does not come into contact with the neutral wire.
- Power supply operates at high temperatures. To avoid injury, do not touch while in use. Do not overload the power supply.
- Ensure the power supply position has sufficient airflow. Operating temperature must be within the temperature limit mentioned above.
- In the end application, the maximum case temperature (Tc) shall not be exceeded 90°C.
- All connection must be performed in accordance with NEC and local electrical codes.

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