Constant Voltage LED Power Supply- Class 2
ACVN125120277V

Overview

Optimized for compact installations, the Allanson/United ACVN125120277 Constant Voltage LED Power Supply provides dependable single-channel 12V DC output with a maximum power capacity of 60W. Supporting universal 120–277V AC input and certified to UL Class 2, Class P, and CSA standards, it ensures reliable performance under demanding conditions. Equipped with advanced protection features and designed for use in dry and damp locations, this power supply delivers lasting efficiency and safety for LED lighting projects.

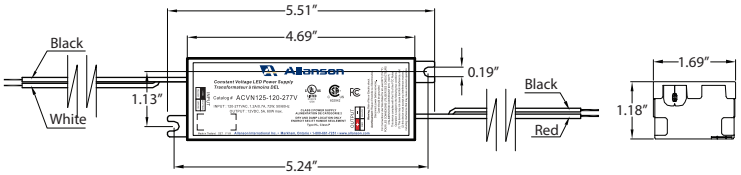
Features

- Single- channel, constant voltage 12V DC output
- Input voltage: 120-277V AC
- UL Class 2, CSA certified
- Protection against over-voltage, over-current, short circuit, and over-temperature
- Compatible with all 12V DC LED lighting products
- Suitable for dry and damp locations
- Protected by a 5-year warranty

Specifications

Part Number	ACVN125-120-277V
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	NPF >0.5 @120V
Max Input Current	1.20A @120V/ 0.70A @277V
Efficiency at Full Load	84.0% @120V/ 86.0% @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	0.77lbs / 0.35kg
Dimensions (LxWxH)	5.51" x 1.69" x 1.18"/ 140.0mm x 43.0mm x 30.0mm
Warranty	5 Years

Dimensions



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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