

MEAN WELL LPV-100-12

Mean Well LPV-100-12 100W Single Output Switching Power Supply User Manual

Model: LPV-100-12

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1. INTRODUCTION

This manual provides essential information for the safe and efficient use of the Mean Well LPV-100-12 100W Single Output Switching Power Supply. This UL certified power supply is designed for a wide range of LED applications, offering high reliability and robust performance.

Key features include:

- Class 2 power supply, passed LPS test.
- Completely sealed with IP67 high waterproof level, protecting against temporary immersion in water.
- Hiccup overload protection, ensuring automatic recovery after fault conditions.
- Constant-voltage mode operation.
- Free air cooling system for low ripple noise and extended lifespan.
- Environmental friendly design.

The LPV-100-12 is suitable for various LED productions, including decorative lighting, home lighting, and commercial lighting.



Figure 1: Mean Well LPV-100-12 100W Single Output Switching Power Supply. This image displays the compact, rectangular unit with input and output wiring, highlighting its robust, sealed design.

2. SETUP INSTRUCTIONS

Proper installation is crucial for the safe and optimal performance of your Mean Well LPV-100-12 power supply. Please follow these guidelines:

1. **Input Power Connection:** Connect the AC input wires to a power source within the specified range of 90-264VAC or 127-370VDC. Ensure all connections are secure and comply with local electrical codes.
2. **Output Power Connection:** Connect the DC output wires to your LED lighting system. The power supply provides a stable 12V DC output. Verify that your LED load is compatible with this voltage and the 8.5 Amp rated current.
3. **Mounting:** The unit is designed for standalone mounting. Ensure adequate space for free air circulation around the unit to facilitate cooling. Avoid enclosing the unit in a manner that restricts airflow.
4. **Environmental Considerations:** The LPV-100-12 features an IP67 waterproof rating, making it suitable for both indoor and outdoor applications. However, avoid prolonged submersion or installation in areas with extreme temperatures outside its operating range of -25°C to +70°C.

Safety Warning: Always disconnect power before making any connections or performing maintenance. Installation should be performed by qualified personnel.

3. OPERATING INSTRUCTIONS

The Mean Well LPV-100-12 operates in constant-voltage mode, providing a stable 12V DC output for your LED applications. Once properly installed and connected, the unit will power on when the input voltage is applied.

This power supply is ideal for applications requiring continuous and reliable illumination, such as:

- Decorative LED lighting.
- Home LED lighting installations.
- Commercial LED lighting projects.
- Moving sign applications.
- Architectural and landscape lighting (outdoor use).

The free air cooling system ensures efficient heat dissipation without the need for internal fans, contributing to its quiet operation and long lifespan.

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Video 1: LPV Series for LED Lighting Applications. This video provides an overview of the Mean Well LPV series, including the LPV-100-12, highlighting its suitability for various LED lighting applications and its robust features.

4. MAINTENANCE

The Mean Well LPV-100-12 power supply is designed for minimal maintenance due to its robust construction and sealed enclosure.

- **Cleaning:** Periodically inspect the unit for any accumulation of dust or debris, especially around the casing. Clean with a soft, dry cloth. Do not use harsh chemicals or abrasive materials.
- **Environmental Protection:** The IP67 rating provides excellent protection against dust and water ingress. Ensure the unit's casing remains intact and undamaged to maintain this protection level.
- **Connection Integrity:** Occasionally check all input and output wiring connections to ensure they remain tight and free from corrosion.

No user-serviceable parts are inside the unit. Do not attempt to open the casing, as this will void the warranty and may expose you to electrical hazards.

5. TROUBLESHOOTING

If you encounter issues with your LPV-100-12 power supply, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No output power	No input power; Loose connections; Internal fault	Check power source; Verify all wiring connections; Contact support if problem persists.
Intermittent power output	Loose connections; Overload protection activated; Input voltage fluctuations	Secure connections; Reduce load to within specifications; Ensure stable input voltage.
LEDs flicker or dim	Load exceeding capacity; Faulty LED components; Input voltage issues	Verify total LED wattage does not exceed 100W; Inspect LED connections; Check input power quality.

Problem	Possible Cause	Solution
Unit is hot to the touch	Insufficient ventilation; Overload condition	Ensure free air circulation around the unit; Reduce load if operating near maximum capacity.
Delayed startup (3-4 seconds)	Normal operation characteristic for some units	This is a known characteristic for some units and generally not an indication of a fault.

The power supply features built-in protections against short circuit, over current, and over voltage. In case of an overload, the hiccup overload protection mode will activate, and the unit will automatically recover once the fault condition is removed.

6. SPECIFICATIONS

Detailed technical specifications for the Mean Well LPV-100-12 power supply:

- **Input Voltage Range:** 90-264VAC, 127-370VDC
- **Output Voltage:** 12V DC
- **Rated Current:** 8.5 Amps
- **Power Output:** 100W
- **Working Temperature:** -25°C to +70°C
- **Protections:** Short circuit, Over current, Over voltage
- **Waterproof Rating:** IP67
- **Power Source:** AC
- **Mounting Type:** Standalone
- **Certifications:** CE, UL, cUL
- **Product Dimensions:** 7.48 x 2.05 x 1.46 inches
- **Item Weight:** 0.16 ounces
- **Model Number:** LPV-100-12
- **Manufacturer:** MEAN WELL

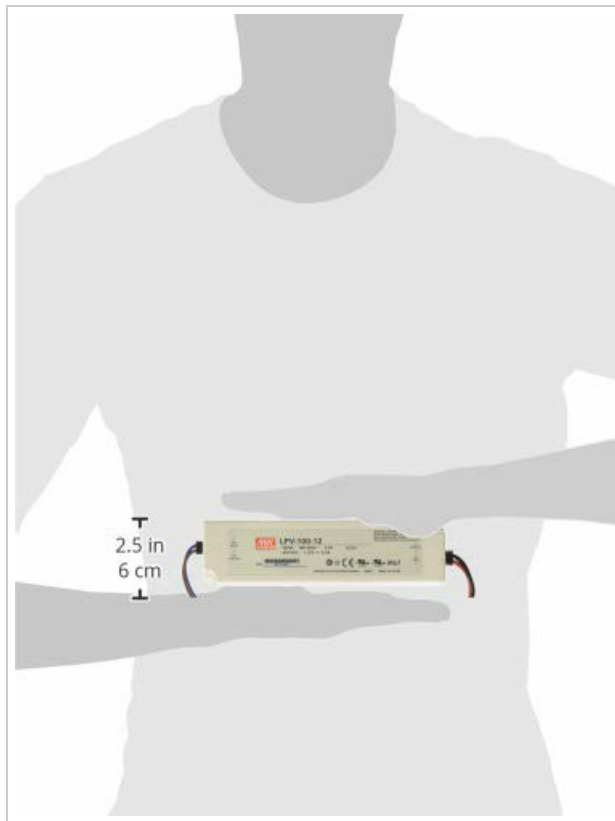


Figure 2: Mean Well LPV-100-12 with dimensions. This image illustrates the physical size of the power supply, showing its length and width in relation to a hand for scale.

7. WARRANTY INFORMATION

The Mean Well LPV-100-12 100W Single Output Switching Power Supply comes with a **2-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use and service conditions.



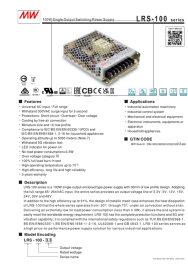

The warranty does not cover damages resulting from improper installation, misuse, unauthorized modifications, accidents, or natural disasters. For warranty claims, please retain your proof of purchase and contact Mean Well customer support or your authorized dealer.

8. CUSTOMER SUPPORT

For technical assistance, troubleshooting guidance, or warranty inquiries regarding your Mean Well LPV-100-12 power supply, please contact:

- **Manufacturer:** MEAN WELL
- Refer to the official Mean Well website for the most current contact information and support resources.
- Consult your product retailer or distributor for local support options.

When contacting support, please have your product model number (LPV-100-12) and purchase details readily available.

	<p>MEAN WELL LPV-60 Series 60W Single Output Switching Power Supply Datasheet</p> <p>Datasheet for the MEAN WELL LPV-60 series of 60W single output switching power supplies. Features include constant voltage design, universal AC input, IP67 rating, and overload/over-voltage protection. Suitable for LED decoration and advertisement devices.</p>
	<p>MEAN WELL LPV-60 Series 60W Single Output Switching Power Supply</p> <p>Detailed specifications, features, and technical data for the MEAN WELL LPV-60 series 60W single output switching power supply, designed for LED lighting applications.</p>
	<p>MEAN WELL LRS-100 Series: 100W Single Output Switching Power Supply Datasheet</p> <p>Detailed technical specifications, features, applications, and mechanical data for the MEAN WELL LRS-100 series of 100W single output switching power supplies. Includes input/output specifications, protection features, environmental data, safety certifications, and dimensional information.</p>
	<p>MEAN WELL LRS-100 Series: 100W Single Output Switching Power Supply</p> <p>Explore the MEAN WELL LRS-100 series, a 100W single-output switching power supply. Features include universal AC input, low profile, high efficiency, wide operating temperature, and global safety compliance for industrial and electronic applications.</p>
	<p>MEAN WELL LPV-60 Series 60W Single Output Switching Power Supply</p> <p>Technical datasheet for the MEAN WELL LPV-60 series, a 60W single output switching power supply. Features include universal AC input, IP67 protection, constant voltage design, and comprehensive protections, making it suitable for LED lighting and industrial applications.</p>



[MEAN WELL RS-100 Series 100W Single Output Switching Power Supply Datasheet](#)

Detailed specifications, features, and technical information for the MEAN WELL RS-100 series of 100W single output switching power supplies, including electrical and environmental characteristics, mechanical dimensions, and safety compliance.