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Mean Well LPV-60-48

Mean Well LPV-60-48 LED Driver Power Supply User Manual

Model: LPV-60-48

1. INTRODUCTION

This manual provides essential instructions for the safe installation, operation, and maintenance of the Mean Well LPV-60-48 LED Driver Power Supply. The LPV-60-48 is a constant voltage power supply designed to provide stable power for LED lighting applications. Please read this manual thoroughly before installation and retain it for future reference.

2. SAFETY INSTRUCTIONS

- **Electrical Hazard:** Installation should only be performed by qualified personnel. Disconnect all power before installation or servicing.
- **Proper Grounding:** Ensure the unit is properly grounded to prevent electric shock.
- **Ventilation:** Do not obstruct ventilation openings. Ensure adequate airflow around the unit to prevent overheating.
- **Environmental Conditions:** Do not expose the unit to moisture, rain, or excessive humidity. Operate within specified temperature ranges.
- **Load Compatibility:** Ensure the connected LED load does not exceed the power supply's rated output.
- **Wiring:** Use appropriate gauge wiring for input and output connections. Secure all connections to prevent loose contacts.

3. PRODUCT OVERVIEW

The Mean Well LPV-60-48 is a 60W, 48V constant voltage LED driver. It is designed for various LED applications requiring a stable and regulated 48V DC power source. Its robust design ensures reliable performance.

4. SETUP AND INSTALLATION

1. **Power Disconnection:** Before beginning any installation, ensure the main power supply to the circuit is disconnected at the breaker.

- Mounting:** Mount the LPV-60-48 in a location that allows for proper ventilation and is protected from environmental elements such as direct sunlight, rain, or excessive dust. Use appropriate fasteners to secure the unit.
- Input Wiring (AC):** Connect the AC input wires to the designated terminals on the power supply. Typically, these are Line (L), Neutral (N), and Ground (GND). Refer to the wiring diagram on the unit label for correct polarity.
- Output Wiring (DC):** Connect the DC output wires to your LED load. Ensure correct polarity: positive (+) to positive and negative (-) to negative. The LPV-60-48 provides a 48V DC output.
- Verify Connections:** Double-check all wiring connections for security and correct polarity. Ensure no bare wires are exposed.
- Power Restoration:** Once all connections are secure and verified, restore power to the circuit.

5. OPERATING INSTRUCTIONS

The Mean Well LPV-60-48 LED Driver Power Supply operates automatically once properly installed and powered. It provides a constant 48V DC output to the connected LED load. No user adjustments are typically required for standard operation.

- Power On:** After installation, switch on the main power supply. The LED driver will power on and supply 48V DC to the connected load.
- Power Off:** To turn off the LED driver, disconnect the main power supply.

6. MAINTENANCE

The LPV-60-48 is designed for minimal maintenance. Regular inspection can help ensure long-term reliability.

- Cleaning:** Periodically clean the exterior of the unit with a dry, soft cloth to remove dust buildup. Ensure power is disconnected before cleaning. Do not use liquid cleaners.
- Connection Check:** Annually, inspect all wiring connections for tightness and signs of corrosion or damage. Re-tighten if necessary.
- Ventilation Check:** Ensure that the ventilation openings remain clear and unobstructed.

7. TROUBLESHOOTING

If you encounter issues with your LPV-60-48, refer to the following troubleshooting steps:

- No Output Power:**
 - Check if the main power supply is connected and switched on.
 - Verify all input and output wiring connections are secure and correct.
 - Ensure the input voltage is within the specified range for the unit.
 - Check for any tripped circuit breakers or blown fuses in the power circuit.
- Incorrect Output Voltage:**
 - Confirm the connected load is compatible with a 48V constant voltage supply.
 - Ensure the load does not exceed the maximum rated power (60W). Overloading can cause voltage drop or protection activation.
 - If the issue persists, the unit may require professional inspection.

- **Overheating:**

- Check for proper ventilation around the unit. Remove any obstructions.
- Ensure the ambient temperature is within the specified operating range.
- Verify the load is not exceeding the unit's maximum power rating.

If these steps do not resolve the issue, contact qualified service personnel or the product supplier.

8. SPECIFICATIONS

Parameter	Value
Model Number	LPV-60-48
Manufacturer	Mean Well
Output Voltage	48V DC
Output Power	60W
Input Voltage	<i>(Refer to product label for specific AC input range)</i>
Item Weight	0.05 Pounds (approx. 0.8 ounces)
UPC	722851900635

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact the retailer/manufacturer directly. Keep your purchase receipt as proof of purchase for warranty claims.