

Mean Well LPC-60-1050

MW Mean Well LPC-60-1050 60W Constant Current LED Power Supply User Manual

Model: LPC-60-1050

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of the Mean Well LPC-60-1050 60W Constant Current LED Power Supply. Please read this manual thoroughly before installation and retain it for future reference.

Key Features:

- Constant current design for stable LED operation.
- Universal AC input / Full range (100-240VAC).
- Withstands 300VAC surge input for 5 seconds.
- Protections: Short circuit, Over voltage.
- Cooling by free air convection.
- Fully encapsulated with IP67 level for outdoor use.
- Fully isolated plastic case.
- Class 2 power unit, no FG (Frame Ground).
- Passes LPS (Limited Power Source) requirements.
- Suitable for LED related fixtures or appliances, such as LED decoration or advertisement devices.
- 100% full load burn-in test for reliability.
- High reliability with a 2-year warranty.

2. SAFETY INSTRUCTIONS

Always follow these safety precautions to prevent injury or damage to the product:

- Ensure the input voltage is within the specified range (100-240VAC).

- Do not open the power supply casing. There are no user-serviceable parts inside.
- Disconnect power before installation or maintenance.
- Ensure proper wiring and insulation to prevent short circuits.
- Install in a well-ventilated area, avoiding direct sunlight or excessive heat sources.
- This device is designed for constant current LED applications. Do not use it for other purposes.
- The IP67 rating indicates protection against dust and temporary immersion in water. However, avoid prolonged submersion.

3. SETUP AND INSTALLATION

Follow these steps for proper installation:

1. **Mounting:**

Mount the power supply securely in a suitable location. Refer to the mechanical specification diagram for dimensions and recommended mounting direction.



Image Description: A top-down view of the Mean Well LPC-60-1050 power supply. The label clearly shows "ACN (BLUE)" and "ACL (BROWN)" for input, and "V+ (RED)" and "V- (BLACK)" for output. The model number LPC-60-1050, input voltage (100-240VAC), and output (48V 1050mA MAX) are visible.

3. Wiring Output (DC):

Connect the DC output wires to your LED fixture. The red wire (V+) is for positive, and the black wire (V-) is for negative. Verify polarity before connecting.



Image Description: An angled view of the Mean Well LPC-60-1050 power supply, highlighting the output side with red (V+) and black (V-) wires. The product label with specifications is also visible.

4. Power On:

Once all connections are secure, apply power to the AC input. The LED fixture should illuminate.

4. OPERATING INSTRUCTIONS

The LPC-60-1050 is a constant current power supply designed for specific LED applications. It operates automatically once connected to a suitable AC input and LED load.

- **Constant Current Output:** The power supply delivers a stable 1050mA constant current output, suitable for LED strings or arrays designed for this current.
- **Load Compatibility:** Ensure your LED load's forward voltage falls within the operating voltage range of the power supply to prevent damage.
- **Environmental Conditions:** Operate within the specified ambient temperature range. Refer to the derating curve in the specifications for performance at different temperatures.

5. MAINTENANCE

The Mean Well LPC-60-1050 is designed for low maintenance. However, periodic checks are recommended:

- **Cleaning:** Keep the exterior of the power supply clean and free from dust and debris to ensure proper heat dissipation. Use a soft, dry cloth.

- **Connection Checks:** Periodically inspect all wiring connections for tightness and signs of corrosion or damage.
- **Environmental Inspection:** Ensure the installation environment remains within specified conditions (temperature, humidity).
- **No User Serviceable Parts:** Do not attempt to open or repair the unit. Doing so will void the warranty and may pose a safety risk.

6. TROUBLESHOOTING

If the LED power supply is not functioning correctly, consider the following:

Problem	Possible Cause	Solution
No LED illumination	No AC input power	Check power source and connections.
No LED illumination	Incorrect wiring (input/output)	Verify AC input (blue/brown) and DC output (red/black) connections and polarity.
No LED illumination	Short circuit or over voltage protection activated	Disconnect power, inspect LED load and wiring for shorts or overvoltage conditions. Correct the issue and reapply power.
LEDs flicker or dim	Unstable AC input or faulty LED load	Check AC input stability. Test with a known good LED load.
Unit feels excessively hot	Insufficient ventilation or ambient temperature too high	Ensure adequate airflow around the unit. Relocate to a cooler environment if necessary. Refer to derating curve.

If troubleshooting steps do not resolve the issue, contact customer support.

7. SPECIFICATIONS

Feature	Detail
Model	LPC-60-1050
Input Voltage	100-240VAC (Universal AC input / Full range)
Output Current	1050mA (Constant Current)
Output Power	60W (Maximum)
Output Voltage	+48V (Maximum, at 1050mA)
Protections	Short circuit, Over voltage
Cooling	Free air convection
IP Rating	IP67 (Fully encapsulated)

Feature	Detail
Safety Standards	Class 2 power unit, Pass LPS
Dimensions (L x W x H)	6.42 x 1.69 x 1.26 inches (163 x 43 x 32 mm approx.)
Weight	Approx. 0.47 lbs (0.21 kg) per unit (Total 6.2 lbs for 6 units)
Operating Temperature	Refer to Derating Curve in Mechanical Specification
UPC	761312703453

Note: Specifications are subject to change without notice. Refer to the official Mean Well datasheet for the most current information.

8. WARRANTY AND SUPPORT

The Mean Well LPC-60-1050 power supply comes with a **2-year warranty** from the date of purchase, covering defects in materials and workmanship under normal use.

Warranty Exclusions:

- Damage caused by improper installation or operation.
- Damage due to unauthorized modifications or repairs.
- Damage from environmental conditions outside specified limits.
- Normal wear and tear.

For warranty claims or technical support, please contact your original point of purchase or the manufacturer's authorized service center. Please have your purchase receipt and product model number ready.

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