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› MEAN WELL /

› MEAN WELL LPV-100-24 LED Driver Instruction Manual

## MEAN WELL LPV-100-24

# MEAN WELL LPV-100-24 LED Driver Instruction Manual

100.8W 24V IP67 Waterproof Power Supply

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your MEAN WELL LPV-100-24 LED Driver. This unit is a 100.8W, 24V constant voltage power supply designed for LED lighting applications, featuring an IP67 rating for waterproof and dustproof protection, making it suitable for both indoor and outdoor use.



**Figure 1:** The MEAN WELL LPV-100-24 LED Driver. This image displays the compact, rectangular design of the power supply, highlighting its robust casing and the clearly labeled input and output wiring for easy identification during installation.

## 2. SAFETY INFORMATION

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**WARNING: Risk of electric shock. Installation should only be performed by a qualified electrician.**

- Always disconnect power at the circuit breaker before installation or servicing.
- Ensure proper grounding to prevent electric shock.
- Do not exceed the maximum load capacity of 100.8W.
- Verify input voltage (AC) and output voltage (24V DC) compatibility with your LED fixtures.
- Protect wiring from sharp edges and moving parts.
- Ensure all connections are secure and properly insulated, especially in wet or damp locations, to maintain the IP67 rating.
- Do not open the unit; there are no user-serviceable parts inside. Opening the unit will void the warranty and compromise its waterproof integrity.

### 3. PRODUCT FEATURES

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- **Model:** LPV-100-24
- **Output Power:** 100.8 Watts
- **Output Voltage:** 24 Volts DC (Constant Voltage)
- **Input Voltage:** 90-264VAC (Universal AC input)
- **Ingress Protection:** IP67 rated (Waterproof and Dustproof)
- **Efficiency:** High efficiency design
- **Protections:** Short circuit, over current, over voltage, over temperature
- **Cooling:** Free air convection
- **Certifications:** CE compliant

### 4. PACKAGE CONTENTS

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Please check the package contents upon receipt. If any items are missing or damaged, contact your supplier immediately.

- 1 x MEAN WELL LPV-100-24 LED Driver Unit
- 1 x Instruction Manual (this document)

### 5. SETUP AND INSTALLATION

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1. **Power Disconnection:** Before starting any installation, ensure the main power supply to the circuit is turned off at the breaker.
2. **Mounting:**

Mount the LED driver in a suitable location that allows for adequate ventilation and is protected from excessive heat. Although the unit is IP67 rated, mounting it in a location that minimizes direct exposure to harsh elements can extend its lifespan. Use appropriate fasteners to secure the unit firmly.
3. **Wiring - AC Input:**

Connect the AC input wires from your main power source to the driver's input terminals. Typically, these are labeled L (Live), N (Neutral), and G (Ground). Ensure correct polarity and a secure ground connection. Use appropriate wire gauges for the current draw.

- **Brown/Black Wire:** Live (L)
- **Blue/White Wire:** Neutral (N)
- **Green/Yellow Wire:** Ground (G)

#### 4. Wiring - DC Output:

Connect the DC output wires from the driver to your 24V LED fixtures. The output wires are typically labeled +V (Positive) and -V (Negative). Ensure correct polarity to avoid damage to your LEDs.

- **Red Wire:** +V (Positive)
- **Black Wire:** -V (Negative)

5. **Sealing Connections:** For outdoor or wet applications, use waterproof connectors and seal all wire connections with appropriate waterproof sealant or heat shrink tubing to maintain the IP67 integrity of the overall system.

6. **Final Check:** Double-check all wiring connections for security, correct polarity, and proper insulation before restoring power.

## 6. OPERATING INSTRUCTIONS

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Once the MEAN WELL LPV-100-24 LED Driver is correctly installed and all connections are secured:

1. **Restore Power:** Turn on the main power supply at the circuit breaker.
2. **Verify Operation:** Your connected LED fixtures should illuminate. If they do not, refer to the Troubleshooting section.
3. **Normal Operation:** The driver will provide a stable 24V DC output to your LEDs. No further user interaction is typically required during normal operation.

## 7. MAINTENANCE

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The MEAN WELL LPV-100-24 LED Driver is designed for long-term, reliable operation with minimal maintenance. However, periodic checks can help ensure optimal performance and longevity.

- **Cleaning:** Periodically clean the exterior of the driver with a soft, dry cloth to remove dust and debris. Do not use harsh chemicals or abrasive cleaners. Ensure power is disconnected before cleaning.
- **Inspection:** Annually inspect the wiring and connections for any signs of wear, damage, or corrosion. Ensure all connections remain tight and secure.
- **Ventilation:** Ensure that the area around the driver remains clear to allow for proper heat dissipation.

## 8. TROUBLESHOOTING

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| Problem                     | Possible Cause  | Solution  |
|-----------------------------|---|---|
| LEDs do not light up.       | <ul style="list-style-type: none"> <li>No AC input power.</li> <li>Incorrect wiring (AC or DC).</li> <li>Faulty LED fixture.</li> <li>Overload (total wattage of LEDs exceeds 100.8W).</li> </ul> | <ul style="list-style-type: none"> <li>Check circuit breaker and power source.</li> <li>Verify all wiring connections and polarity.</li> <li>Test LED fixture with a known good power source.</li> <li>Reduce the number of connected LEDs or use a higher wattage driver.</li> </ul> |
| LEDs flicker or dim.        | <ul style="list-style-type: none"> <li>Loose connections.</li> <li>Driver overload.</li> <li>Input voltage fluctuations.</li> </ul>   | <ul style="list-style-type: none"> <li>Check and secure all wiring connections.</li> <li>Ensure total LED wattage is within driver limits.</li> <li>Consult an electrician to check AC input stability.</li> </ul>  |
| Driver is hot to the touch. | <ul style="list-style-type: none"> <li>Insufficient ventilation.</li> <li>Driver overload.</li> <li>High ambient temperature.</li> </ul>  | <ul style="list-style-type: none"> <li>Ensure adequate airflow around the unit.</li> <li>Reduce the load on the driver.</li> <li>Relocate the driver to a cooler environment if possible.</li> </ul>  |

## 9. SPECIFICATIONS

| Parameter                      | Value                        |
|--------------------------------|------------------------------|
| Brand                          | MEAN WELL                    |
| Model                          | LPV-100-24                   |
| Output Power                   | 100.8W                       |
| Output Voltage                 | 24V DC                       |
| Input Voltage Range            | 90 ~ 264VAC                  |
| Ingress Protection (IP Rating) | IP67 (Waterproof, Dustproof) |
| Power Source                   | Corded Electric              |
| Certification                  | CE                           |

## 10. WARRANTY AND SUPPORT

MEAN WELL products are manufactured to high standards and come with a manufacturer's warranty. Please refer to the official MEAN WELL website or your purchase documentation for specific warranty terms and

conditions.

For technical support, troubleshooting assistance, or warranty claims, please contact your authorized MEAN WELL distributor or the point of purchase. When contacting support, please have your product model number (LPV-100-24) and purchase date available.

**Online Resources:** For additional information and technical datasheets, visit the official [MEAN WELL website](#).