

EMITEVER EM-DC-60W

EMITEVER 24V Power Supply 60W LED Power Adapter

Model: EM-DC-60W | Brand: EMITEVER

1. INTRODUCTION

This manual provides essential information for the safe and efficient use of your EMITEVER 24V Power Supply. Please read this manual thoroughly before installation and operation, and retain it for future reference.

1.1 Package Contents

- 1 x 60W DC Power Supply

1.2 Product Overview

The EMITEVER 24V Power Supply is a UL-Listed 60W LED power adapter designed to convert 100-240V AC input to a stable 24V DC output at 2.5A. It is suitable for various low-voltage applications, including LED strip lights, CCTV cameras, and other 24V devices requiring up to 60 watts of power.



Image 1.1: The EMITEVER 24V 60W LED Power Adapter, including the main unit, AC power cord, and a DC connector adapter.

2. SAFETY INFORMATION

2.1 Important Safety Instructions

- Ensure your device operates at 24V and requires under 60W to prevent damage, flickering, or overheating.
- This power supply does not have charging or dimming functions. For dimming, use an external PWM controller at the DC end.
- The product has an IP30 rating, making it suitable for dry indoor environments only. Avoid exposure to moisture or water.
- Do not open the power supply casing. There are no user-serviceable parts inside.
- Keep out of reach of children.
- Disconnect power before making any connections or disconnections.

2.2 UL Certified Protection

This 24V Power Adapter is cUL Listed, indicating compliance with rigorous safety standards. It incorporates comprehensive protection mechanisms to ensure device safety and longevity:

- **Overcurrent Protection:** Prevents damage from excessive current draw.
- **Short Circuit Protection:** Automatically shuts off power in case of a short circuit.
- **Overvoltage Protection:** Safeguards connected devices from voltage spikes.
- **Overheat Protection:** Prevents the adapter from reaching unsafe temperatures.

UL Certification is Safer

All materials of our products have UL certification, and the products are safer to use

Other Brand

X
X
X
X
Small input electrolytic capacitor
Small heat sink
Enameled wire transformer
X
Copper Clad Aluminum power cable

EMITEVER

UL certification
X capacitance
Common mode inductance
Differential mode inductance
Large input electrolytic capacitor
Large heat sink
Triple insulated wire transformer
Fire-resistant silicone
Pure copper wire power cable

Image 2.1: Internal component comparison illustrating the quality and safety features, including UL certification, of the EMITEVER power supply.

3. SPECIFICATIONS

Feature	Detail
Input Voltage	100-240V AC
Input Frequency	50/60Hz
Output Voltage	24V DC (Constant Voltage)
Max Output Current	2.5 Amps

Feature	Detail
Max Output Power	60 Watts
DC Jack Size	5.5 x 2.1mm (Inner Positive, Outer Negative)
IP Rating	IP30 (Indoor use only)
Product Dimensions	4.7"D x 2.1"W x 1.2"H (11.9cm x 5.3cm x 3.0cm)
Weight	10.55 ounces (approx. 300g)
Power Source	Corded Electric
Mounting Type	Wall Mount (via AC plug)
Certifications	cUL Listed



Image 3.1: Physical dimensions and cable lengths of the EMITEVER 24V 60W power supply.

4. SETUP & INSTALLATION

4.1 Before Installation

- Verify that your device requires a 24V DC power input.
- Confirm that the total wattage required by your connected devices does not exceed 60W.
- Ensure the installation environment is dry and free from moisture.

4.2 Connection Methods

The EMITEVER 24V Power Supply offers two primary methods for connecting to your devices:

1. Direct DC Jack Connection:

Connect the power supply's DC output plug (5.5 x 2.1mm) directly into a compatible DC input jack on your device. This is a plug-and-play method requiring no additional wiring.

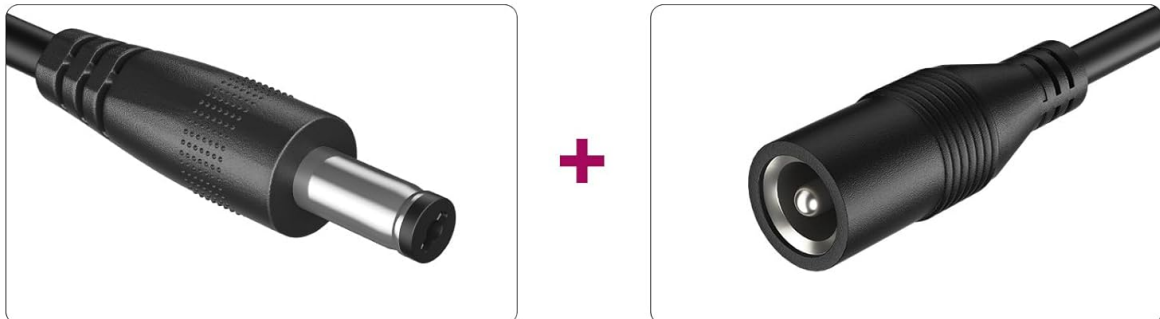
2. Terminal Block Connection:

For devices that require bare wire connections, use the included DC connector to terminal block adapter. Loosen the screws on the terminal block, insert the positive and negative wires from your device, and then tighten the screws. Ensure correct polarity (Inner Positive, Outer Negative for the DC jack).

2 Ways of Linking

More convenient to use

The first link method



The second link method



Image 4.1: Visual guide to the two available connection methods for the power supply.

DC Output Size

(Size 5.5*2.1mm, DC exposed 10mm.)

⚠ DC Tip Polarity: Inner Positive(+), Out Negative(-)



Image 4.2: Detailed view of the 5.5 x 2.1mm DC output size and polarity.

4.3 Compatibility

This power supply is compatible with a wide range of 24V DC devices that require up to 60 watts of power, including but not limited to:

- EMITEVER LED strip lights, modules, light bars, and cabinet lights
- Landscape lighting
- Wireless routers
- Small 3D printers
- Security cameras
- Other 24V devices under 60 watts

5. OPERATING INSTRUCTIONS

After ensuring all connections are secure and correct, plug the AC power cord into a standard 100-240V wall outlet. The power supply will begin to deliver 24V DC power to the connected device. A green indicator light on the adapter will illuminate when power is active.

The start-up time for the power supply can take 1-3 seconds to stabilize the output and extend its

operational life. No further user interaction is required for basic operation.



Image 5.1: The power supply in operation, providing stable power to an LED strip light.

6. MAINTENANCE

- **Cleaning:** Disconnect the power supply from the wall outlet and all connected devices before cleaning. Use a soft, dry cloth to wipe the exterior. Do not use liquid cleaners or sprays.
- **Storage:** Store the power supply in a cool, dry place away from direct sunlight and moisture when not in use.
- **Inspection:** Periodically inspect the power cords and the adapter casing for any signs of damage. If damage is found, discontinue use and replace the unit.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Device not lighting up / No power	Incorrect voltage (not 24V) Device wattage exceeds 60W Loose connection Faulty outlet Power supply failure	Verify device voltage and wattage requirements. Check all connections are secure. Test the wall outlet with another device. Replace the power supply if it's faulty.
Flickering lights	Device wattage exceeds 60W Loose connection Incompatible device	Ensure total wattage is under 60W. Check connections. Confirm device compatibility with a 24V constant voltage supply.
Power supply is hot	Overload (device wattage too high) Poor ventilation	Reduce load to under 60W. Ensure adequate airflow around the power supply. If overheating persists, discontinue use.
Green indicator light not on	No AC input power Internal fault	Check AC power cord connection and wall outlet. If power is present at the outlet, the power supply may be faulty and require replacement.

8. WARRANTY & SUPPORT

EMITEVER provides a **3-year worry-free service** for this product. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or improper installation.

For warranty claims or technical support, please contact EMITEVER customer service through the retailer where the product was purchased or visit the official EMITEVER website for contact information.

Related Documents

	<p>Emitever DNA042BU1-600-P Triac Dimmer Switch User Guide and Installation Instructions</p> <p>Comprehensive user guide and installation instructions for the Emitever DNA042BU1-600-P Triac Dimmer Switch, detailing its features, installation steps for single-pole and 3-way configurations, operation modes, troubleshooting tips, and customer support information for various light bulb types.</p>
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