Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

Tissting 50W LED Driver 12V/24V

Tissting 50W IP67 Waterproof LED Driver Power Supply

Model: 50W LED Driver 12V/24V

1. Introduction

This manual provides instructions for the safe and efficient use of your Tissting 50W IP67 Waterproof LED Driver Power Supply. This device is designed to convert AC 100-265V input to a stable DC 12V or 24V output, suitable for various low-voltage LED applications, outdoor lighting, computer projects, and industrial uses. Please read this manual thoroughly before installation and operation.



Image 1.1: Overview of the Tissting 50W IP67 Waterproof LED Driver.

2. Safety Information

Always observe the following safety precautions to prevent injury or damage to the product:

- **Electrical Hazard:** Installation should only be performed by qualified personnel. Disconnect power before installation or maintenance.
- **Voltage Compatibility:** Ensure the input voltage (AC 100-265V) and output voltage (DC 12V or 24V) match your application requirements.
- **Overload Protection:** Do not exceed the maximum output power of 50W. Overloading can cause damage and fire hazards.
- **Wiring:** Ensure all wiring connections are secure and properly insulated to prevent short circuits.
- **Environment:** Although IP67 rated for waterproofing, avoid submerging the unit in water for extended periods. Ensure adequate ventilation to prevent overheating.
- **Grounding:** Proper grounding is essential for safety.

3. Product Features

- **Waterproof & Durable:** IP67 rated with aluminum alloy housing and fiberglass PCB for humid or outdoor environments.
- **Stable & Efficient Output:** Converts 100-265V AC to 12V/24V DC with 50W power, 4.2A/2.1A current, low ripple noise (<30mV), and high efficiency.
- **Wide Application:** Suitable for LED strips, bulbs, outdoor lighting, computer projects, and industrial equipment.
- **Multiple Protections:** Built-in overload, overvoltage, over-temperature, short-circuit, and over-current protections.
- **Compact Design:** Easy installation and compatibility with most low-voltage LED lighting systems.

4. Specifications

Parameter	Value
Item Type	Waterproof LED Power Supply
Material	Aluminium Alloy
Input Electrical Range	100-265VAC 47-63Hz
Output Power	50W
Rated Output Voltage	12VDC / 24VDC
Rated Output Current	12V: 4.2A / 24V: 2.1A
Work Efficiency	90%
Output Ripple Noise	30mv
Safety Protection	Overload, Overvoltage, Over Temperature, Overcurrent, Short Circuit Protection
Operating Temperature	-20°C to 60°C
Waterproof Level	IP67
Dimensions (Approx.)	Length: 190mm (7.5in), Width: 48mm (1.9in), Height: 34mm (1.3in)



Image 4.1: Product label and approximate dimensions.

5. Setup and Installation

Follow these steps for proper installation:

1. **Disconnect Power:** Ensure all power sources are disconnected before beginning installation.
2. **Mounting:** Mount the LED driver in a suitable location that allows for adequate air circulation and is protected from direct mechanical stress.
3. **Input Wiring (AC):**
    - Connect the AC input wires from your power source to the driver's input terminals (typically labeled 'L' for Live and 'N' for Neutral).
    - Ensure correct polarity and secure connections.
4. **Output Wiring (DC):**
    - Connect the DC output wires from the driver to your LED device (e.g., LED strip lights). The driver's output wires

are typically red (+) and black (-).
    - Match the polarity correctly: Red wire to the positive (+) terminal of your LED device, Black wire to the negative (-) terminal.
    - Verify that the LED device's voltage requirement (12V or 24V) matches the driver's output voltage.
5. **Insulation:** Insulate all exposed wire connections with appropriate electrical tape or connectors to prevent short circuits and ensure safety.
6. **Power On:** Once all connections are secure and verified, restore power to test the system.



Image 5.1: Output wiring showing red (+) and black (-) wires.

6. Operating Instructions

The Tissting LED driver operates automatically once properly installed and connected to a power source. It provides a constant voltage output to power compatible LED devices.

- **Power On/Off:** Control the power to the LED driver via the main power switch of your electrical circuit.
- **Load Management:** Ensure the total wattage of connected LED devices does not exceed the driver's 50W output

capacity.

- **Protection Features:** The driver is equipped with automatic protection against overload, overvoltage, over-temperature, overcurrent, and short circuits. In case of a fault, the driver may temporarily shut down. Disconnect power, resolve the issue, and then restore power.

7. Maintenance

Minimal maintenance is required for this waterproof LED driver:

- **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.
- **Inspection:** Regularly inspect the wiring for any signs of damage, fraying, or loose connections. Address any issues promptly.
- **Ventilation:** Ensure that the area around the driver remains clear to allow for proper heat dissipation.
- **Environmental Conditions:** While IP67 rated, prolonged exposure to extreme conditions outside its specified operating temperature range (-20°C to 60°C) should be avoided.

8. Troubleshooting

Problem	Possible Cause	Solution
LEDs do not light up	◦ No power to the driver. ◦ Incorrect wiring (input or output). ◦ Overload protection activated. ◦ Faulty LED device.	◦ Check power supply to the driver. ◦ Verify all wiring connections and polarity. ◦ Reduce the load on the driver. ◦ Test the LED device with another power source if possible.
LEDs flicker or dim	◦ Insufficient power supply. ◦ Loose connections. ◦ Driver overheating. ◦ Faulty LED device.	◦ Ensure stable AC input. ◦ Check and secure all wiring connections. ◦ Ensure adequate ventilation around the driver. ◦ Inspect LED device for damage.
Driver is hot to the touch	◦ Overloaded. ◦ Poor ventilation.	◦ Reduce the connected load. ◦ Relocate the driver to an area with better airflow.

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

9. Warranty and Support

Tissting products are manufactured to high-quality standards. For warranty information or technical support, please refer to the retailer's return policy or contact Tissting customer service through the platform where the product was purchased.

For additional information or assistance, please visit theTissting Store on Amazon.

© 2024 Tissting. All rights reserved.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

https://manuals.plus/asin/B0DP8BN8TM

More documents and user manuals: **https://manuals.plus/**