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> Aexit AC100-260V to DC12-28V 4-7W LED Driver Power Supply Instruction Manual

Aexit modle

Aexit AC100-260V to DC12-28V 4-7W LED Driver Power Supply

Brand: Aexit | Model: modle

INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Aexit AC100-260V to DC12-28V 4-7W LED Driver Power Supply. This device functions as a constant current source regulated driver, designed for 12-28V LED applications across various colors. It is primarily intended for LED lighting, building lighting, stage lighting, LED displays, and theatrical setups.

SAFETY INFORMATION

WARNING: Electrical shock hazard. Installation should only be performed by qualified personnel. Disconnect power before installation or servicing.

- Ensure the input voltage (AC100-260V) matches your power supply.
- Do not exceed the specified output load (4-7W, DC12-28V, 280mA).
- Keep the device away from water and moisture. This unit is waterproof, but proper installation is still crucial to prevent water ingress into connections.
- Do not open the casing of the LED driver. There are no user-serviceable parts inside.
- Ensure proper ventilation around the driver to prevent overheating.
- All wiring must comply with local and national electrical codes.

PRODUCT OVERVIEW

The Aexit LED Driver is a compact and efficient power supply designed for various LED applications. It features a robust aluminum and plastic construction, ensuring durability. The unit comes with pre-attached connection cables for ease of installation.

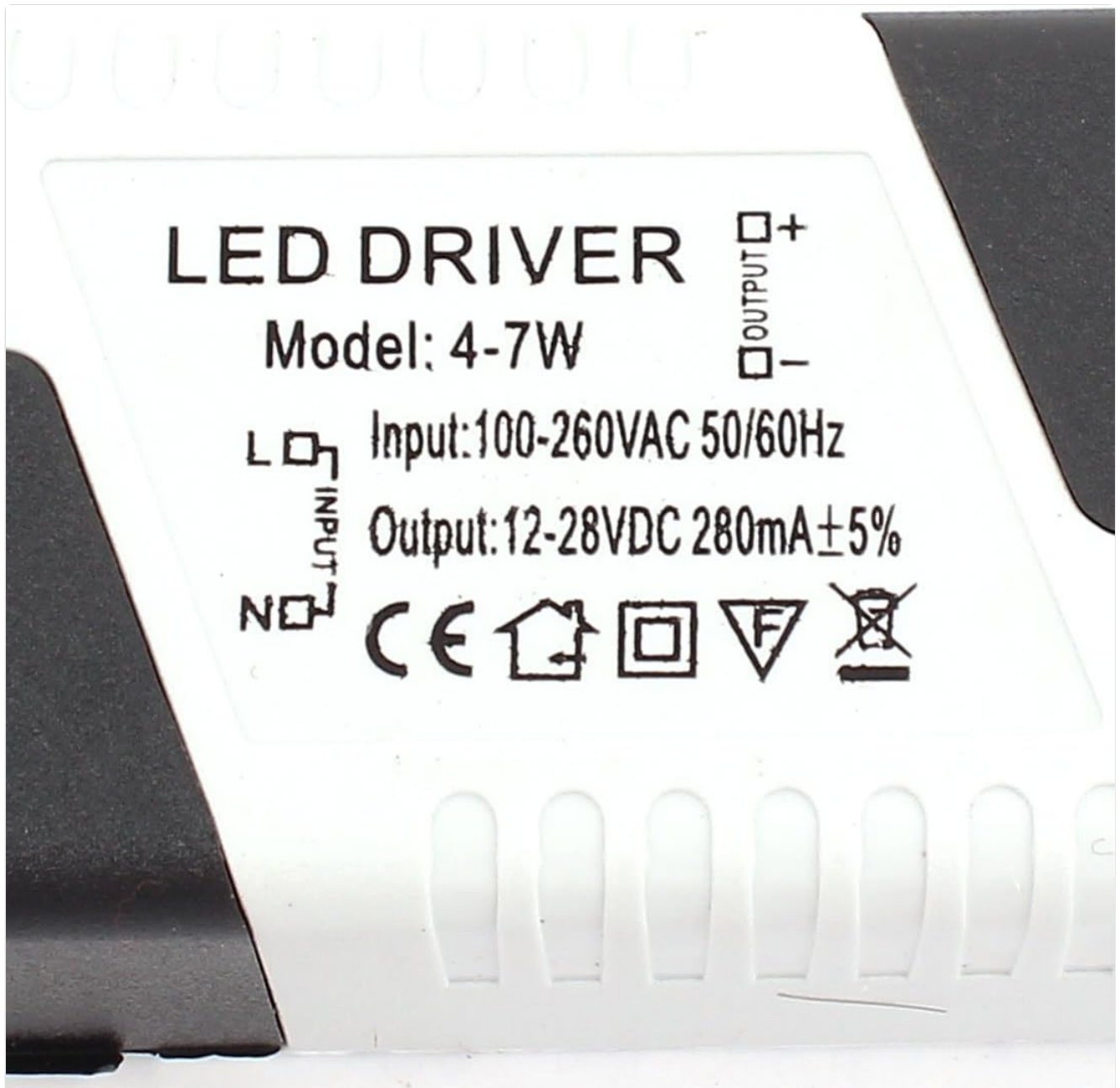


Image 1: The Aexit LED Driver showing its compact design and pre-attached input and output wires. The brown wires are typically for AC input, and the red/black wires with a connector are for DC output to the LED load.

Key Features:

- Constant current output for stable LED performance.
- Wide input voltage range: AC100-260V, 50/60Hz.
- Output: DC12-28V, 4-7W, 280mA ($\pm 5\%$).
- Waterproof design for enhanced durability.
- Compact size: 68 x 33 x 22mm (L*W*T).

SETUP AND INSTALLATION

Follow these steps for proper installation of the LED driver:

1. **Disconnect Power:** Before starting any wiring, ensure that the main power supply to the circuit is turned off at the breaker.
2. **Identify Connections:** The driver has two sets of wires. The input wires (typically brown) are for AC power,

labeled 'L' and 'N'. The output wires (typically red and black with a connector) are for DC power to the LED, labeled '+' and '-'.

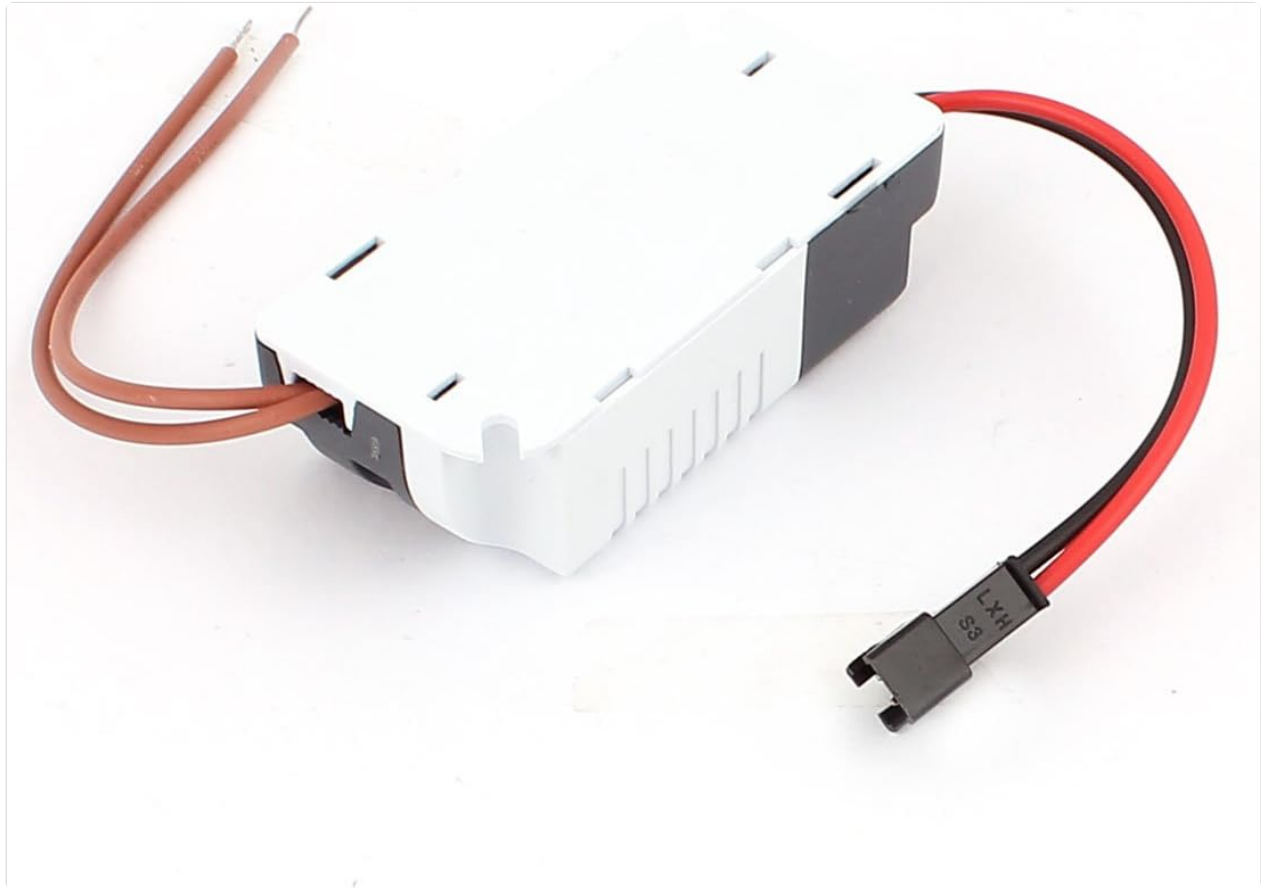


Image 2: Close-up of the LED driver's label, detailing input (100-260VAC, 50/60Hz) and output (12-28VDC, 280mA $\pm$ 5%) specifications. This label also indicates the 4-7W model and CE certification.

3. **Connect Input:** Connect the AC input wires from your main power supply to the 'L' and 'N' terminals of the LED driver. Ensure a secure connection.
4. **Connect Output:** Connect the DC output wires from the LED driver to your LED lamp or fixture. Ensure the polarity is correct: '+' to the positive terminal of the LED and '-' to the negative terminal.
5. **Mounting:** This driver is suitable for ceiling mount applications. Secure the driver in a suitable location, ensuring it is protected and has adequate ventilation.
6. **Restore Power:** Once all connections are secure and verified, restore power to the circuit.

Note: The wire length for connections is approximately 8cm (3.1 inches).

OPERATING INSTRUCTIONS

Once properly installed and connected, the Aexit LED Driver operates automatically. When power is supplied to the input, the driver will provide a constant current output to the connected LED load within its specified voltage and wattage range.

- Ensure the connected LED load is within the 4-7W range and operates between 12-28V DC.
- The driver is designed for continuous operation within its specified parameters.

MAINTENANCE

The Aexit LED Driver is designed for minimal maintenance. However, periodic checks can help ensure its longevity

and safe operation:

- **Visual Inspection:** Periodically inspect the driver and its connections for any signs of damage, wear, or loose wiring.
- **Cleaning:** If necessary, gently wipe the exterior of the driver with a dry, soft cloth to remove dust. Do not use liquid cleaners or solvents.
- **Ventilation:** Ensure that the area around the driver remains clear of obstructions to allow for proper heat dissipation.

Do not attempt to repair the unit. If the driver is damaged or malfunctioning, replace it with a new one.

TROUBLESHOOTING

If you encounter issues with your LED driver, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
LEDs do not light up.	No power to the driver, incorrect wiring, faulty LED, or driver failure.	◦ Check power supply to the driver. ◦ Verify input and output wiring connections and polarity. ◦ Test the LED fixture with a known good driver or power source. ◦ If all else fails, the driver may be faulty and require replacement.
LEDs flicker or dim.	Unstable input voltage, overloaded driver, loose connections, or incompatible LED load.	◦ Ensure stable AC input voltage. ◦ Verify the total wattage of connected LEDs does not exceed 7W. ◦ Check all wiring connections for tightness. ◦ Confirm the LED fixture is compatible with a constant current driver.
Driver feels excessively hot.	Overloaded, poor ventilation, or internal fault.	◦ Reduce the connected LED load if it exceeds 7W. ◦ Ensure adequate airflow around the driver. ◦ If overheating persists, discontinue use and replace the driver.

SPECIFICATIONS

Parameter	Value
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Parameter	Value
Model Number	modle
Input Voltage	AC100-260V, 50/60Hz
Output Voltage	DC12-28V
Output Power	4-7W
Output Current	280mA (±5%)
Material	Aluminum, Plastic
Net Weight	27g
Overall Size (L*W*T)	68 x 33 x 22mm (2.7" x 1.3" x 0.9")
Wire Length	8cm (3.1")
Country of Manufacture	CHINA
Certification	CE
Mounting Type	Ceiling Mount

WARRANTY AND SUPPORT

This product is manufactured by Aexit. For specific warranty information or technical support, please refer to the retailer or manufacturer's official website where the product was purchased. Keep your purchase receipt as proof of purchase.

For general inquiries, you may contact Aexit through their official channels, if available.

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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.

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