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> [TOPXCDZ LED Constant Current Driver \(3-5W, 300mA\) Instruction Manual](#)

TOPXCDZ 3-5W 300mA

TOPXCDZ LED Constant Current Driver (3-5W, 300mA) Instruction Manual

Model: 3-5W 300mA | Brand: TOPXCDZ

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your TOPXCDZ LED Constant Current Driver, specifically the 3-5W, 300mA model. Please read these instructions thoroughly before use to ensure proper functionality and to prevent damage or injury.

2. SAFETY INFORMATION

Adherence to the following safety guidelines is crucial for preventing electrical hazards and ensuring the longevity of the product.

- **Danger! No-load testing is strictly forbidden.** Testing the driver without a connected LED load can result in inaccurate data and potential damage to the unit. Always connect to a suitable LED bulb or array for testing.
- Ensure the input voltage (AC85-265V) matches your power supply.
- Do not exceed the specified output wattage (3-5W) or current (300mA) for the connected LED load.
- Installation should be performed by qualified personnel to avoid electrical shock or fire hazards.
- Disconnect power before installation, maintenance, or troubleshooting.
- This driver features overvoltage protection, overload protection, overheat protection, and short circuit protection. However, proper installation and usage are still required.
- Keep the driver away from moisture and extreme temperatures.

3. PRODUCT SPECIFICATIONS

The TOPXCDZ LED Constant Current Driver (3-5W, 300mA) is designed to provide stable power to compatible LED lighting. Key specifications are detailed below:

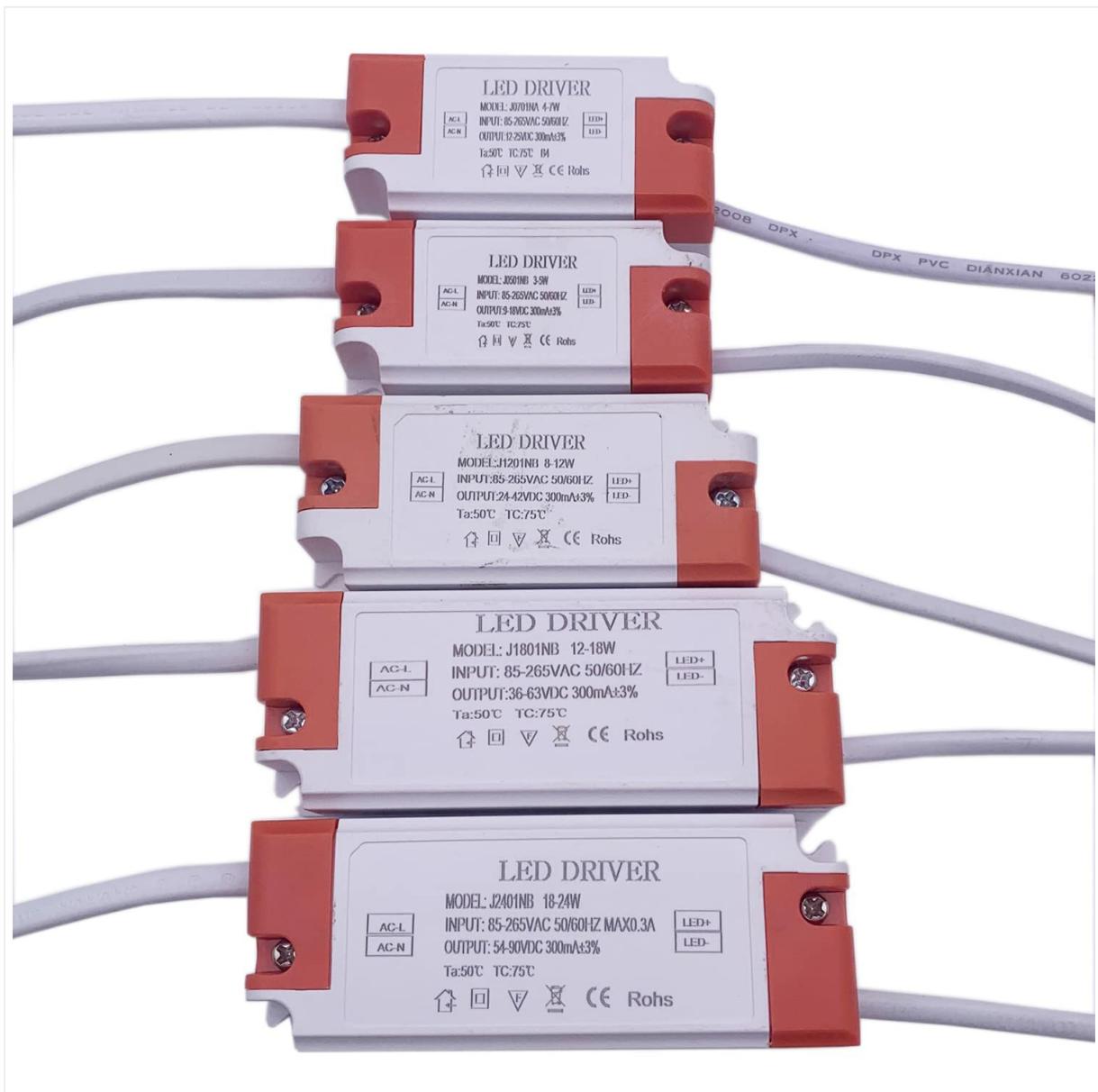


Image 1: Front view of the TOPXCDZ 3-5W 300mA LED Driver, showing input/output labels and model information.

Model: 3-5W 300mA LED Driver

Parameter	Value
Input Voltage	AC 85-265V
Output Voltage (AC230V load test)	DC 9-18V
Output Current	300mA
Output Power	3-5W
Dimensions (L*W*H)	64mm * 30mm * 20mm
Protection Features	Overvoltage, Overload, Overheat, Short Circuit
Flicker	No flicker

4. INSTALLATION GUIDE

Proper installation is critical for the safe and effective operation of the LED driver. Ensure power is

disconnected before beginning installation.

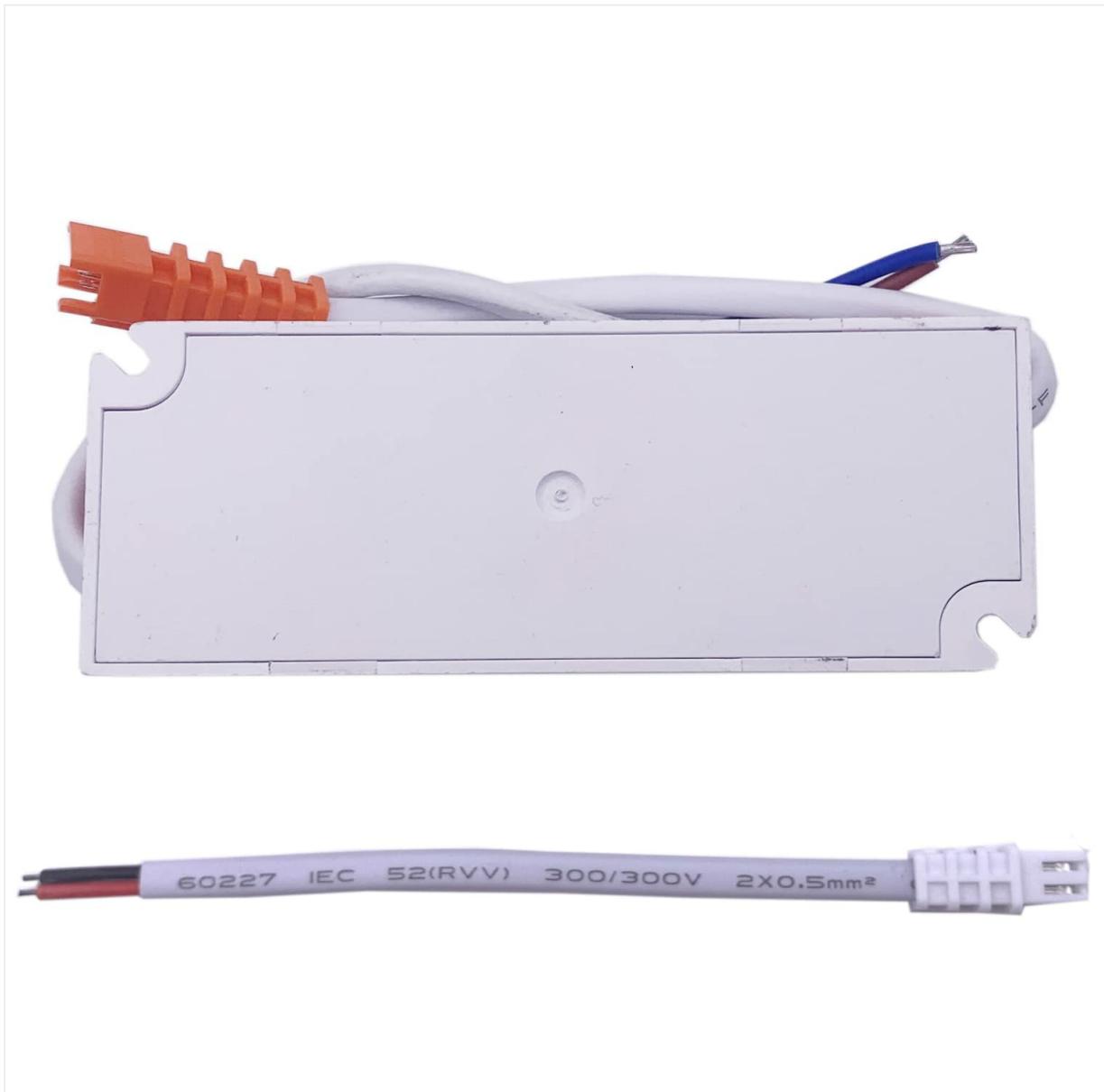


Image 2: Side view of the LED Driver showing the AC input wires (AC-L, AC-N) and DC output wires (LED+, LED-).

1. **Power Disconnection:** Turn off the main power supply to the circuit where the LED driver will be installed. Verify power is off using a voltage tester.
2. **Identify Wires:** The LED driver has two sets of wires:
 - **Input Wires (AC):** Typically marked AC-L (Live) and AC-N (Neutral). These connect to your main AC power supply (85-265V).
 - **Output Wires (DC):** Typically marked LED+ (Positive) and LED- (Negative). These connect to your LED light fixture.
3. **Connect AC Input:** Connect the AC-L wire from the driver to the Live wire of your AC power supply. Connect the AC-N wire from the driver to the Neutral wire of your AC power supply. Ensure connections are secure and insulated.
4. **Connect DC Output:** Connect the LED+ wire from the driver to the positive terminal of your LED light fixture. Connect the LED- wire from the driver to the negative terminal of your LED light fixture. Observe correct polarity.
5. **Secure Installation:** Mount the LED driver in a suitable, well-ventilated location, away from direct heat or moisture. Ensure it is securely fastened and that all wiring is protected.

6. **Power Restoration:** Once all connections are secure and verified, restore power to the circuit.

5. OPERATION

The TOPXCDZ LED Constant Current Driver operates automatically once properly installed and powered. It is designed to provide a stable 300mA current to the connected LED load within its specified voltage range (9-18V DC for 3-5W models).

- The driver will automatically adjust its output voltage to maintain the constant current required by the LED lamp performance.
- No user intervention is required for normal operation.

6. MAINTENANCE

The LED driver is designed for minimal maintenance. Regular checks can help ensure optimal performance and longevity.

- **Cleaning:** Periodically inspect the driver for dust accumulation. If necessary, gently clean the exterior with a dry, soft cloth. Ensure power is disconnected before cleaning.
- **Inspection:** Annually inspect wiring for any signs of wear, damage, or loose connections. Address any issues promptly.
- **Environment:** Ensure the operating environment remains within specified temperature and humidity ranges.

7. TROUBLESHOOTING

If you encounter issues with your LED driver, refer to the following troubleshooting steps:

Problem	Possible Cause	Solution
LEDs do not light up	<ul style="list-style-type: none">◦ No power to the driver.◦ Incorrect wiring (AC input or DC output).◦ LED load is faulty or incompatible.◦ Driver is faulty.	<ul style="list-style-type: none">◦ Check power supply and circuit breaker.◦ Verify all wiring connections (AC-L, AC-N, LED+, LED-). Ensure correct polarity.◦ Test the LED fixture with a known good driver or power supply.◦ If all else fails, the driver may need replacement.
LEDs flicker or dim	<ul style="list-style-type: none">◦ Loose connections.◦ Incompatible LED load (e.g., wattage too high/low).◦ Input voltage fluctuations.	<ul style="list-style-type: none">◦ Check and secure all wiring connections.◦ Ensure the LED load is within the 3-5W range and requires 300mA.◦ Verify stable AC input voltage.
Driver is hot to touch	<ul style="list-style-type: none">◦ Poor ventilation.◦ Overloaded LED fixture.◦ Operating in high ambient temperature.	<ul style="list-style-type: none">◦ Ensure adequate airflow around the driver.◦ Verify the LED load does not exceed 5W.◦ Relocate the driver to a cooler environment if possible.

Important Note: Remember that no-load testing is forbidden. Always connect a compatible LED load before applying power to the driver for testing or operation.

8. WARRANTY AND SUPPORT

For warranty information or technical support, please contact TOPXCDZ customer service through the retailer where the product was purchased. Please have your purchase details and product model number (3-5W 300mA) available when contacting support.

While specific warranty terms are not detailed here, TOPXCDZ products are generally covered against manufacturing defects. Misuse, improper installation, or unauthorized modifications will void any applicable warranty.