

JCUIUCCCC-18-36W-300MA

# Generic LED Driver 300mA 18-36W Constant Current Power Supply Module User Manual

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient use of the Generic LED Driver 300mA 18-36W Constant Current Power Supply Module. Please read these instructions carefully before installation and operation. Keep this manual for future reference.

## 2. SAFETY INFORMATION

- **Electrical Hazard:** Installation and wiring should only be performed by qualified personnel. Ensure power is disconnected before any installation or maintenance.
- **Non-Isolated Design:** This is a non-isolated LED driver. Exercise extreme caution during handling and operation to avoid electrical shock. Do not touch the circuit board when power is applied.
- **Voltage Compatibility:** Verify that the input voltage of the driver matches your local power supply (AC200-240V for this model).
- **Load Matching:** Ensure the connected LED load's voltage and current requirements are within the driver's specified output range (DC54-110V, 300mA). Overloading can damage the driver and LEDs.
- **Environmental Conditions:** Do not expose the driver to excessive moisture, dust, or extreme temperatures outside its operating range.

## 3. PRODUCT OVERVIEW

The Generic LED Driver is a compact, constant current power supply module designed for various LED lighting applications. It features a lightweight design for easy installation and efficient heat dissipation for long-term operation. Its durable shell provides resistance to impact and corrosion, and it is designed for silent operation.

### Key Features:

- **Lightweight Design:** Compact size for easy installation and space saving.
- **Low Heat Generation:** Efficient heat dissipation ensures long-term operation without overheating.
- **Silent Operation:** No noise interference, suitable for use in quiet environments.
- **Durable Shell:** Resistant to impact and corrosion, extending service life.

- **Waterproof and Moisture-proof:** Adaptable to various environments.

## 4. SPECIFICATIONS

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Refer to the image below for detailed electrical and physical specifications.

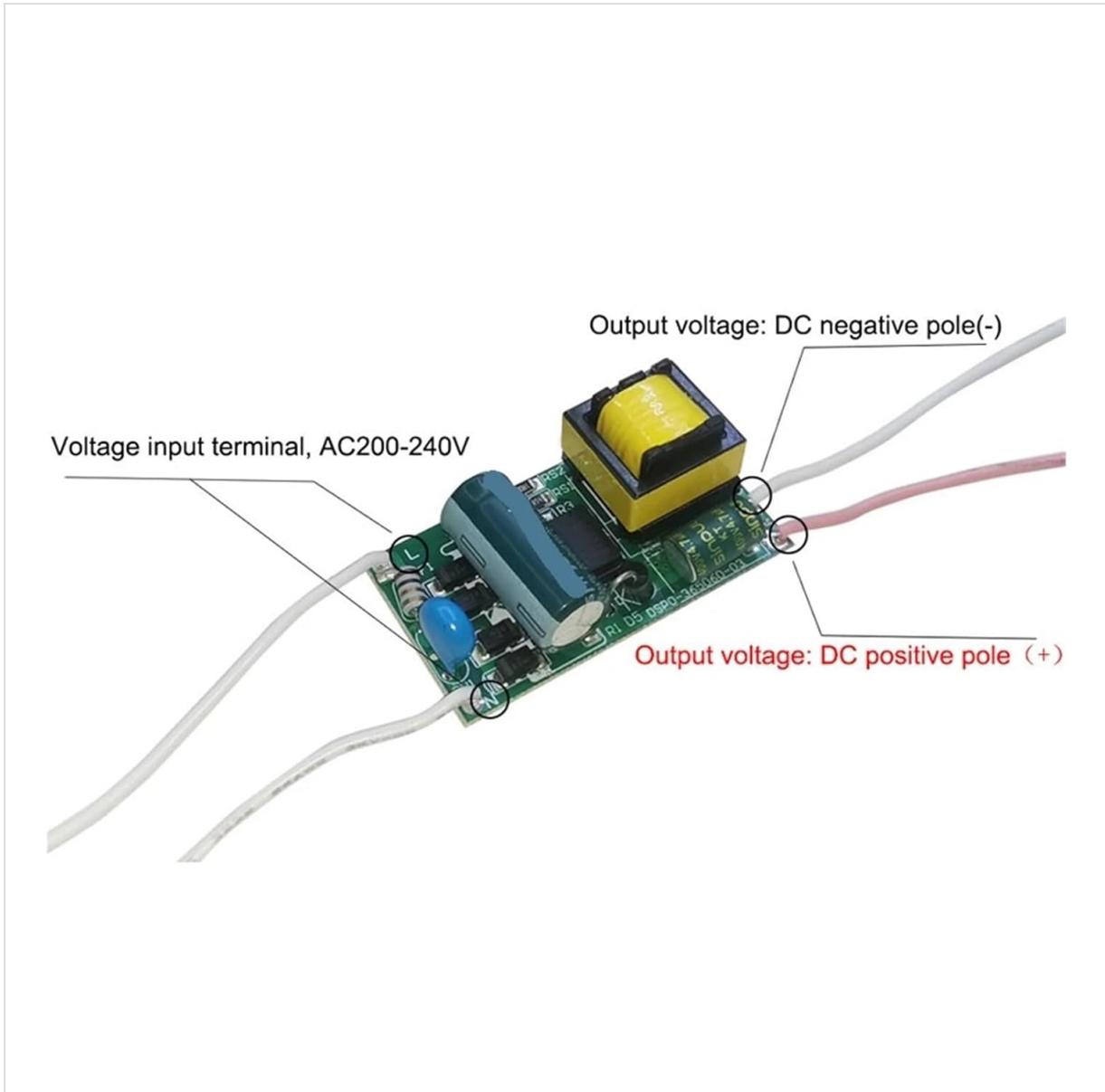


Image 1: LED Driver dimensions and electrical specifications. This image shows the driver's physical dimensions (33mm x 20mm x 13mm) and key electrical parameters: Power (18-36W), Input voltage (AC200-240V), Output voltage (DC54-110V), Output current (300mA  $\pm$ 5%), and No load output voltage (DC314V max).

- **Model Number:** JCUIUCCCC-18-36W-300MA
- **Input Voltage:** AC200-240V
- **Output Voltage:** DC54-110V
- **Output Current:** 300mA  $\pm$ 5%
- **Power:** 18-36W
- **No Load Output Voltage:** DC314V (max)
- **Dimensions:** Approximately 33mm x 20mm x 13mm
- **Weight:** Approximately 13g
- **Material:** Smart IC + PCB

## 5. SETUP AND WIRING

Follow these steps for proper installation and wiring. Ensure all power is disconnected before proceeding.



Power: 18-36W  
Input voltage: AC200-240V  
Output voltage: DC54-110V  
Output current: 300mA±5%  
**No load output voltage: DC314V(max)**  
Size: 33mm\*20mm\*13mm

Image 2: LED Driver wiring diagram. This diagram illustrates the connection points for the LED driver. The input wires (white) connect to the AC200-240V voltage input terminal. The output wires (red and white) connect to the LED load, with the red wire being the DC positive pole (+) and the white wire being the DC negative pole (-).

1. **Disconnect Power:** Turn off the main power supply to the circuit where the LED driver will be installed.
2. **Identify Wires:** The driver has two sets of wires:
  - *Input Wires:* Typically white, these are for connecting to the AC power supply (AC200-240V).
  - *Output Wires:* Typically red and white, these are for connecting to the LED load. The red wire is the DC positive (+) output, and the white wire is the DC negative (-) output.
3. **Connect Input:** Connect the input wires of the LED driver to your AC200-240V power source. Ensure secure connections using appropriate connectors or terminal blocks.
4. **Connect Output:** Connect the red output wire of the driver to the positive (+) terminal of your LED load. Connect the white output wire of the driver to the negative (-) terminal of your LED load. Ensure correct polarity to prevent damage to the LEDs.

5. **Secure Installation:** Mount the LED driver in a suitable, well-ventilated location, away from direct heat sources or flammable materials. Ensure it is protected from physical damage.
6. **Restore Power:** Once all connections are secure and verified, restore power to the circuit.

## 6. OPERATING INSTRUCTIONS

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Once properly installed, the LED driver operates automatically. It converts the AC input voltage to a constant DC current suitable for powering compatible LED loads.

- **Power On:** Apply AC power to the input terminals. The connected LEDs should illuminate.
- **Constant Current Output:** The driver maintains a stable 300mA output current, ensuring consistent brightness and extending the lifespan of your LEDs within its specified voltage range.
- **Monitoring:** Observe the LEDs for proper illumination. If they do not light up or flicker, refer to the troubleshooting section.

## 7. MAINTENANCE

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The LED driver is designed for minimal maintenance. However, periodic checks can help ensure its longevity and performance.

- **Cleaning:** Ensure the driver remains free of dust and debris. If cleaning is necessary, disconnect power and use a dry, soft cloth. Do not use liquid cleaners.
- **Connection Checks:** Periodically inspect wiring connections to ensure they remain tight and free from corrosion.
- **Environmental Conditions:** Verify that the operating environment continues to meet the recommended conditions (temperature, humidity).
- **Damage Inspection:** If the driver's casing appears damaged or if you notice any unusual odors or sounds, disconnect power immediately and replace the unit.

## 8. TROUBLESHOOTING

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If you encounter issues with your LED driver, consult the following table:

Problem	Possible Cause	Solution
LEDs do not light up	No input power Incorrect wiring (input/output) Faulty LED load Driver failure	Check power supply and circuit breaker. Verify all wiring connections and polarity. Test LEDs with a known good driver or power source. Replace the driver if other checks fail.
LEDs flicker or dim	Unstable input power Loose connections Overloaded driver Incompatible LED load	Ensure stable AC input voltage. Check and tighten all wiring connections. Verify total LED wattage is within driver's 18-36W range. Ensure LED voltage range (DC54-110V) matches driver output.

<b>Problem</b>	<b>Possible Cause</b>	<b>Solution</b>
Driver is hot to touch	Poor ventilation Overloaded driver High ambient temperature	Ensure adequate airflow around the driver. Reduce LED load if exceeding 36W. Relocate driver to a cooler environment.

If the problem persists after attempting these solutions, contact customer support or a qualified electrician.

## **9. WARRANTY AND SUPPORT**

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For warranty information and technical support, please refer to the product's purchase documentation or contact the retailer from whom the product was purchased. Keep your proof of purchase for any warranty claims.