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› Jyving 3-Color LED Driver Non-Isolating Lighting Transformer 30-50W Instruction Manual

Jyving JY-30-50Wx2

Jyving 3-Color LED Driver Non-Isolating Lighting Transformer 30-50W Instruction Manual

Model: JY-30-50Wx2

INTRODUCTION

This manual provides essential instructions for the safe and efficient installation, operation, and maintenance of your Jyving 3-Color LED Driver Non-Isolating Lighting Transformer. This device is designed to power compatible LED lighting fixtures, offering a 3-color temperature switching function. Please read this manual thoroughly before installation and retain it for future reference.

PRODUCT FEATURES

- **3-Color Output:** Designed to support LED lights with multiple color temperature options.
- **Non-Isolating Design:** Compact and efficient power conversion.
- **Wide Input Voltage:** Operates within AC165-265V, 50-60Hz.
- **Output Power:** (30-50W) x 2, suitable for various LED applications.
- **Safety Protections:** Includes short circuit protection, over voltage protection, over current protection, and over temperature protection.
- **Material:** Durable plastic casing.
- **Certifications:** CE, RoHS, UL compliant.

SAFETY INFORMATION

WARNING: Electrical installation should only be performed by qualified personnel. Disconnect power at the circuit breaker before installation or servicing. Failure to follow these instructions may result in electric shock, fire, or other hazards.

- Ensure the input voltage matches the specifications of the LED driver.
- Do not exceed the maximum output wattage of the driver.
- Keep the driver away from water and damp environments.
- Ensure proper ventilation to prevent overheating.
- Do not open or modify the LED driver. There are no user-serviceable parts inside.

SPECIFICATIONS

Specification	Value
Model Number	JY-30-50Wx2
Input Voltage	AC165-265V
Frequency	50-60Hz
Output Power	(30-50W) x 2
Output Current	260-280mA
Material	Plastic
Color	White
Dimensions (approx.)	88 x 40 x 18 mm (for 30-50W variant)
Operating Temperature (Ta)	-20°C to 45°C
Case Temperature (Tc)	Up to 65°C
Certifications	CE, RoHS, UL

SETUP AND INSTALLATION

Before beginning installation, ensure the main power supply is disconnected at the circuit breaker to prevent electrical shock.

- 1. Identify Wiring:** The LED driver has two sets of wires:
 - **Input Wires (AC):** Typically brown and blue, for connecting to the main AC power supply (AC165-265V).
 - **Output Wires (DC):** Typically a multi-pin connector with gray, white, and yellow wires, for connecting to the LED light fixture.

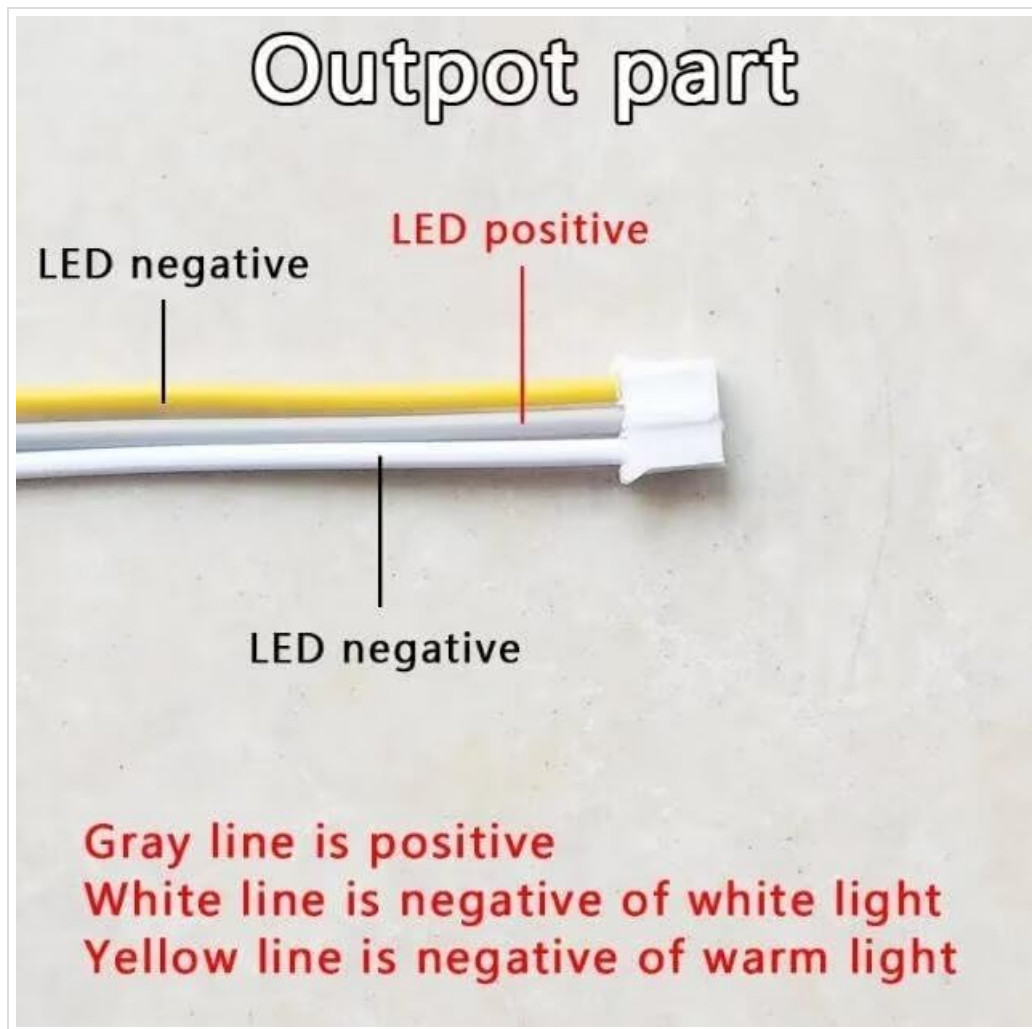


Image showing the input (brown and blue) and output (gray, white, yellow connector) wires of the LED driver.

2. **Connect Input Power:** Connect the brown and blue input wires of the LED driver to your AC power source (Live and Neutral). Ensure secure connections using appropriate electrical connectors or terminal blocks.
3. **Connect LED Fixture:** Connect the output connector of the LED driver to the corresponding input connector of your 3-color LED light fixture.



Detailed view of the output wiring: Gray line is positive, White line is negative for white light, Yellow line is negative for warm light.

Output Wire Configuration:

- **Gray Line:** LED Positive (+)
- **White Line:** LED Negative (-) for White Light
- **Yellow Line:** LED Negative (-) for Warm Light

Ensure correct polarity when connecting to the LED fixture. Incorrect wiring can damage the LED driver or the light fixture.

4. **Secure Placement:** Position the LED driver in a location that allows for adequate ventilation and is protected from moisture and physical damage.
5. **Restore Power:** Once all connections are secure and verified, restore power at the circuit breaker.

OPERATING INSTRUCTIONS

This 3-color LED driver is designed to work with compatible LED light fixtures that support color temperature switching. The switching mechanism is typically controlled by a standard wall switch (not included).

1. **Initial Power On:** Upon first powering on the LED fixture connected to this driver, it will typically illuminate in a default color temperature (e.g., Cool White).
2. **Switching Color Temperatures:** To change the color temperature, quickly toggle the wall switch OFF and then ON again. Each toggle will cycle through the available color temperatures (e.g., Cool White, Warm White, Neutral White).
3. **Power Off:** To turn off the light, simply switch the wall switch to the OFF position.

4. **Memory Function (if applicable):** Some LED fixtures with 3-color drivers may have a memory function that recalls the last selected color temperature when powered on again after a short period. Refer to your LED fixture's manual for specific details.

MAINTENANCE

The Jyving 3-Color LED Driver is designed for long-term, maintenance-free operation. However, periodic checks can help ensure optimal performance and safety.

- **Cleaning:** Ensure the driver is free from dust and debris. If cleaning is necessary, disconnect power and use a dry, soft cloth. Do not use liquid cleaners.
- **Inspection:** Periodically inspect the wiring for any signs of damage, fraying, or loose connections. Address any issues immediately after disconnecting power.
- **Ventilation:** Ensure that the driver's ventilation holes are not obstructed to prevent overheating.
- **No User Serviceable Parts:** Do not attempt to open or repair the driver. Refer to qualified service personnel if a malfunction occurs.

TROUBLESHOOTING

Problem	Possible Cause	Solution
LED light does not turn on.	No power supply; loose connections; faulty LED fixture; faulty driver.	Check power at the circuit breaker. Verify all wiring connections. Test the LED fixture with a known good driver or the driver with a known good fixture.
LED light flickers or dims.	Unstable power supply; incorrect wattage match between driver and LED; loose connections; driver overheating.	Ensure stable AC input. Verify LED fixture wattage is within the driver's (30-50W) x 2 range. Check connections. Ensure adequate ventilation for the driver.
Color changing function does not work.	Incompatible LED fixture; incorrect wiring of output wires; faulty driver.	Ensure your LED fixture is designed for 3-color switching. Verify the gray, white, and yellow output wires are correctly connected to the LED fixture.
Driver feels excessively hot.	Overload; insufficient ventilation; high ambient temperature.	Ensure the total wattage of connected LEDs does not exceed the driver's capacity. Improve ventilation around the driver. Relocate the driver to a cooler environment if possible.

If troubleshooting steps do not resolve the issue, contact a qualified electrician or the product supplier for assistance. Do not attempt to repair the driver yourself.

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.

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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.

Submit question

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