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CZJUTAI JT-DC050V2000

CZJUTAI JT-DC050V2000 5V 2.0A 10W LED Power Supply Instruction Manual

Model: JT-DC050V2000

1. Introduction

Thank you for choosing the CZJUTAI JT-DC050V2000 LED Power Supply. This Class 2 transformer is designed to provide stable and efficient 5V DC power at 2.0A (10W) for various LED lighting applications. Its IP44 waterproof rating makes it suitable for both indoor and outdoor use, including Christmas and string lights. Please read this manual thoroughly before installation and operation to ensure safe and optimal performance.

2. Safety Information

WARNING: Risk of Electric Shock. Improper installation or use can lead to electric shock or fire. Always follow these safety guidelines:

- Ensure the power supply is disconnected from the main power source before any installation, maintenance, or troubleshooting.
- Do not exceed the specified output voltage (5V) or current (2.0A) of this power supply. Overloading can cause damage or fire.
- Verify that the input voltage of your LED lights matches the output voltage of this power supply (5V DC).
- Do not immerse the power supply in water. While it has an IP44 rating for splash resistance, it is not designed for submersion.
- Do not open or modify the power supply unit. There are no user-serviceable parts inside.
- Keep the power supply away from heat sources and direct sunlight to prevent overheating.
- Ensure all connections are secure and properly insulated to prevent short circuits.
- This product is for LED modules use.



Image 1: CZJUTAI JT-DC050V2000 Power Supply. This image displays the CZJUTAI JT-DC050V2000 power supply, highlighting its US plug and the product label detailing input (120V~60Hz, 2.40A) and output (5V===2.00A) specifications, along with its Class 2 and RAINTIGHT ratings.

3. Package Contents

Verify that all items are present and undamaged upon unpacking:

- 1 x CZJUTAI JT-DC050V2000 Power Supply

4. Product Features

- **Reliable Performance:** Provides stable 5V DC, 2.0A (10W) power, functioning as a Class 2 transformer for consistent lighting.
- **IP44 Waterproof Rating:** Designed to withstand outdoor conditions, making it suitable for both indoor and outdoor applications.
- **US Plug Compatibility:** Equipped with a standard US plug for easy and convenient installation in the United States.
- **Versatile Application:** Ideal for powering various low-voltage LED lighting, including Christmas lights and string lights.

- **Compact and Durable Design:** Features a robust construction for long-lasting performance and easy integration into any setup.



Image 2: IP44 Waterproof Rating. The power supply is depicted under a water splash, visually confirming its IP44 waterproof rating, making it suitable for both indoor and outdoor environments.



Image 3: Versatile Applications. This image demonstrates various applications for the power supply, such as powering laser lights, Christmas LED decorations, and outdoor lawn lamps, showcasing its versatility for different lighting needs.

5. Setup and Installation

1. **Compatibility Check:** Before connecting, ensure that your LED lights or Christmas toys require a 5V DC power input and that their total current draw does not exceed 2.0A (10W).
2. **Interface Connection:** The power supply features a two-pronged spiral interface. Double-check that the female plug of this adapter matches the male plug of your LED light system. The connection port measures approximately 1.70cm.
3. **Secure Connection:** Firmly connect the power supply's output plug to your LED lighting system's input. Ensure a snug fit to prevent accidental disconnection or poor contact.
4. **Power Connection:** Plug the US plug of the power supply into a standard 120V~60Hz AC wall outlet.
5. **Placement:** Position the power supply in a location that allows for adequate ventilation and minimizes exposure to extreme weather conditions, even with its IP44 rating.



Image 4: Interface and Connection. This diagram illustrates the two-pronged spiral interface of the power supply, indicating a 1.70cm connection port. It advises users to double-check that the female plug of the adapter matches their LED light's male plug and to verify output voltage, current, and wattage suitability for their LED lights or Christmas toys.



Image 5: Compatibility Reference. This image highlights the adapter's compatibility with other models, specifically mentioning the JT-DC050V1000-C, and shows the socket type for reference.

6. Operation

Once properly installed, the power supply will deliver continuous 5V DC power to your connected LED lights. There are no user controls on the power supply itself. Operation is automatic upon connection to a live power outlet and a compatible LED load.

7. Maintenance

- **Cleaning:** Disconnect the power supply from the outlet before cleaning. Use a dry, soft cloth to wipe the exterior. Do not use liquid cleaners or solvents.
- **Inspection:** Periodically inspect the power supply and its cables for any signs of damage, such as cuts, fraying, or discoloration. If damage is found, discontinue use immediately and replace the unit.
- **Storage:** When not in use, store the power supply in a cool, dry place, away from direct sunlight and moisture.

8. Troubleshooting

- **No Power to Lights:**
  - Check if the power supply is securely plugged into a working wall outlet.
  - Ensure the connection between the power supply and the LED lights is firm and correct.
  - Verify that the LED lights themselves are functional and not damaged.
  - Confirm that the total wattage/current of your LED lights does not exceed the power supply's capacity (10W / 2.0A).
- **Lights Flickering:**
  - Check for loose connections.
  - Ensure the power supply is not overloaded.
  - Test with a different set of LED lights if possible to rule out light fixture issues.

9. Specifications

Model Number	CZJUTAI JT-DC050V2000
Input Voltage	120V~60Hz, 2.40A
Output Voltage	5V DC
Output Current	2.0A
Output Power	10W
Waterproof Rating	IP44
Power Source	Corded Electric
Mounting Type	Wall Mount
Current Rating	2 Amps
Specification Met	FCC, UL
Manufacturer	CZJUTAI
Package Dimensions	2.87 x 1.57 x 1.06 inches; 1.45 ounces



Image 6: Product Dimensions. This image provides the physical dimensions of the power supply, showing a length of 9.3cm, width of 5cm, and height of 6.3cm, useful for installation planning.

10. Warranty and Support

This CZJUTAI JT-DC050V2000 Power Supply comes with a **3-Year Warranty** from the date of purchase, covering defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

For technical support or warranty inquiries, please contact your retailer or the manufacturer directly. Contact information can typically be found on the product packaging or the retailer's website.



Image 7: Certifications and Warranty. The power supply is shown with its certifications, including CE and RoHS, and prominently features a 'Quality Assured 3 Year Warranty' badge, indicating product reliability and manufacturer support.

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