

## Jauarta Jauartau2ps7qya5o

# Jauarta 5V 1A UPS Uninterruptible Power Supply Module

Model: Jauartau2ps7qya5o

## INTRODUCTION

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This manual provides essential instructions for the safe and efficient use of your Jauarta 5V 1A UPS Uninterruptible Power Supply Module. This module is designed to provide a stable 5V 1A output, powered by either an external 5V input or a connected lithium battery, ensuring continuous operation for your devices.

Key features include:

- **Power Output:** Provides a maximum output of 5V 1A.
- **Overvoltage Protection:** Automatically cuts off input when it exceeds 6V, switching to battery power.
- **Reverse Polarity Protection:** Includes protection against reverse connection for both input and output.
- **Short Circuit Protection:** Built-in protection against output short circuits.
- **Simultaneous Charging and Discharging:** Supports charging the battery while simultaneously supplying power to the load.

## IMPORTANT SAFETY INFORMATION

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- **Battery Polarity:** The positive and negative electrodes of the battery must not be reversed. Reversing polarity will damage the module.
- **Input Voltage:** Ensure the input voltage does not exceed 20V. Exceeding 20V can cause damage to the unit.
- **Wiring:** Due to potentially large currents, it is recommended to use thicker wires. The wire cross-section should be greater than 1.5mm<sup>2</sup>.
- **Output Current:** The maximum output current is 1A, but continuous 1A output may not be sustained under all conditions.
- **Operating Environment:** Operate within the specified temperature range of -40°C to 85°C and humidity range of 0-95%RH.

## SPECIFICATIONS

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| Parameter                            | Value   |
|--------------------------------------|---|
| Item Type                            | Power Supply Module   |
| Material                             | PCB   |
| Input Voltage                        | 5V 1A   |
| Output Voltage                       | 5V 1A (Maximum)   |
| Output Power                         | 5W  |
| Battery Supply                       | Polymer Lithium Battery, Lithium Battery (Recommended Capacity Below 10000mA) |
| Input Reverse Connection Protection  | Yes   |
| Input Overvoltage Protection         | Yes   |
| Output Reverse Connection Protection | Yes   |
| Output Short Circuit Protection      | Yes   |
| Operating Temperature Range          | -40°C to 85°C   |
| Operating Humidity Range             | 0-95%RH   |
| Package Dimensions                   | 3.15 x 1.97 x 0.39 inches   |
| Item Weight                          | 0.071 ounces  |
| Model Number                         | Jauartau2ps7qya5o   |

## PACKAGE CONTENTS

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The package includes:

- 1 x Jauarta 5V 1A UPS Uninterruptible Power Supply Module

## SETUP AND CONNECTION

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Follow these steps to set up your UPS module:

1. **Connect Input Power:** Connect the correct 5V input voltage to the designated input terminals (N+ and N-). Ensure polarity is correct.
2. **Connect Battery:** Connect your polymer lithium battery or lithium battery to the B+ and B- terminals. **Observe correct polarity to prevent module damage.** The recommended battery capacity is below 10000mA.
3. **Verify Output:** Before connecting your load, you may check the output voltage with a voltmeter and current with an ammeter at the OUT+ and OUT- terminals.
4. **Connect Load:** Connect your 5V device to the OUT+ and OUT- terminals.

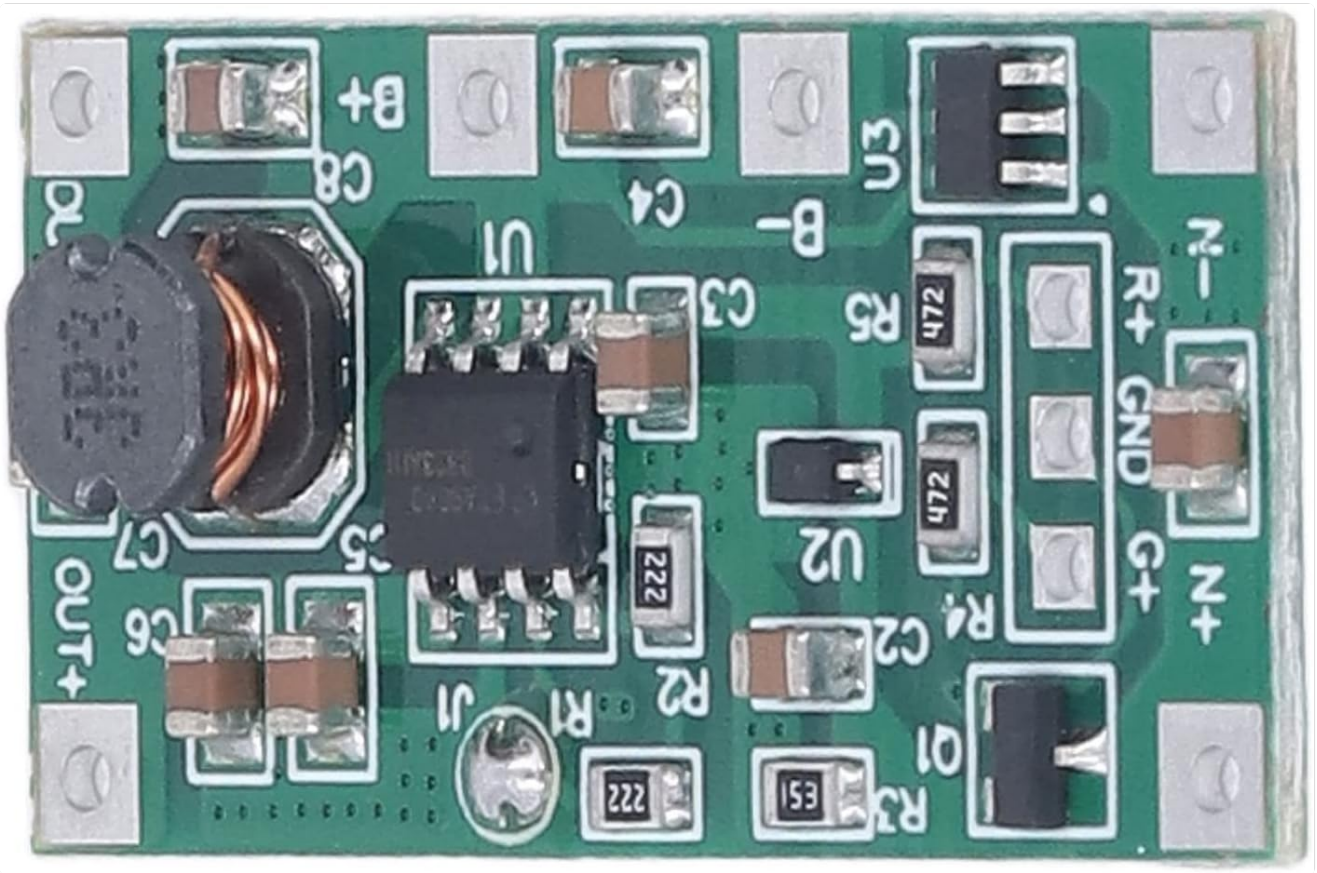


Image: Top-down view of the Jauarta UPS module, highlighting the input (N+, N-), battery (B+, B-), and output (OUT+, OUT-) connection points.

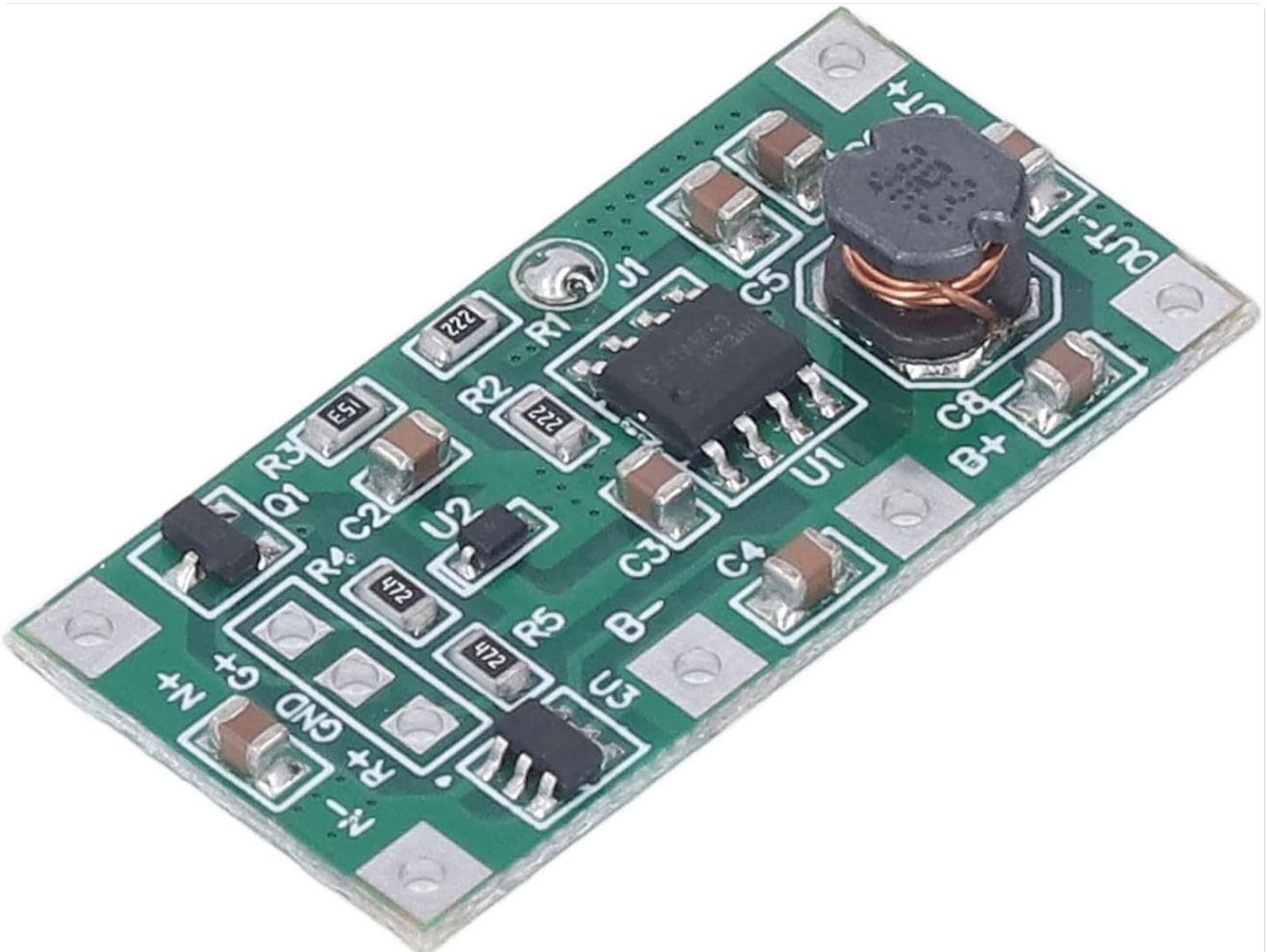


Image: Angled view of the Jauarta UPS module, providing a general perspective of its components and layout.

## OPERATING INSTRUCTIONS

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The Jauarta UPS module operates automatically once connected. It will draw power from the 5V input when available and simultaneously charge the connected lithium battery. If the 5V input power is interrupted or falls below 6V, the module will seamlessly switch to drawing power from the connected battery to maintain a continuous 5V output to your device.

- **Charging Indicator (Optional):** Users can install a common anode red-green LED as a charging indicator. The red light indicates if the output terminal is loaded. The green light flashes to show battery capacity. If there is no load or battery, the green light will turn off.
- **Power Continuity:** The module ensures uninterrupted power supply during transitions between external power and battery power.

## MAINTENANCE

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The Jauarta UPS module is designed for low maintenance. To ensure optimal performance and longevity:

- Keep the module clean and free from dust and debris.
- Ensure proper ventilation around the module, especially during operation, to prevent overheating.
- Regularly inspect wiring for any signs of wear or damage.
- Store in a dry environment within the specified operating temperature and humidity ranges when not in use.

## TROUBLESHOOTING

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If you encounter issues with your UPS module, consider the following:

- **No Output Power:**
  - Check if the input power is correctly connected and within the 5V range.
  - Verify that the battery is connected with correct polarity and is charged.
  - Ensure there is no short circuit at the output terminals.
- **Module Damage:**
  - If the module is not functioning after initial connection, check if the battery or input power was connected with reversed polarity.
  - Confirm that the input voltage did not exceed 20V at any point.
- **Intermittent Power:**
  - Ensure all wire connections are secure and that the wire thickness is adequate for the current draw (greater than 1.5mm<sup>2</sup> recommended).
  - Check the battery health and capacity.

If problems persist, contact customer support for further assistance.

## WARRANTY AND SUPPORT

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This Jauarta product comes with a standard manufacturer's warranty. For specific warranty details, please refer to the product packaging or contact Jauarta customer support. For technical assistance or troubleshooting not covered in this manual, please reach out to our support team through the official Jauarta website or your retailer.

