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> GODIYMODULES 3S 12V UPS Module Instruction Manual

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3S 12V 3A 24W 36W Lithium Battery UPS Module

1. PRODUCT OVERVIEW

The GODIYMODULES 3S 12V UPS Module is designed to provide an uninterruptible power supply for your devices. It automatically switches to battery power when the main power supply is interrupted, ensuring continuous operation. This module supports 3S lithium-ion or polymer battery packs and features integrated charging and discharging capabilities.

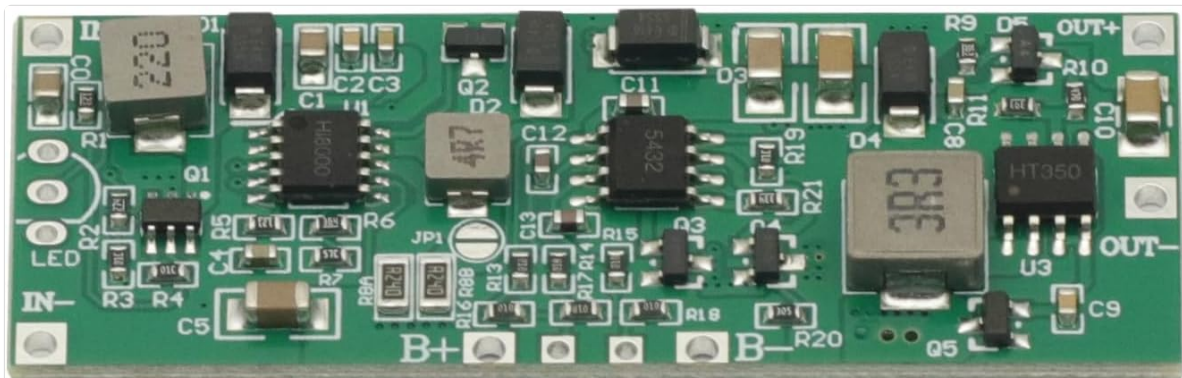


Figure 1: Top view of the GODIYMODULES 3S 12V UPS Module, showing its compact design and various components.

2. SETUP AND INSTALLATION

Careful attention to the wiring and connection sequence is crucial for proper function and safety. Please follow these instructions precisely.

2.1 Wiring Diagram

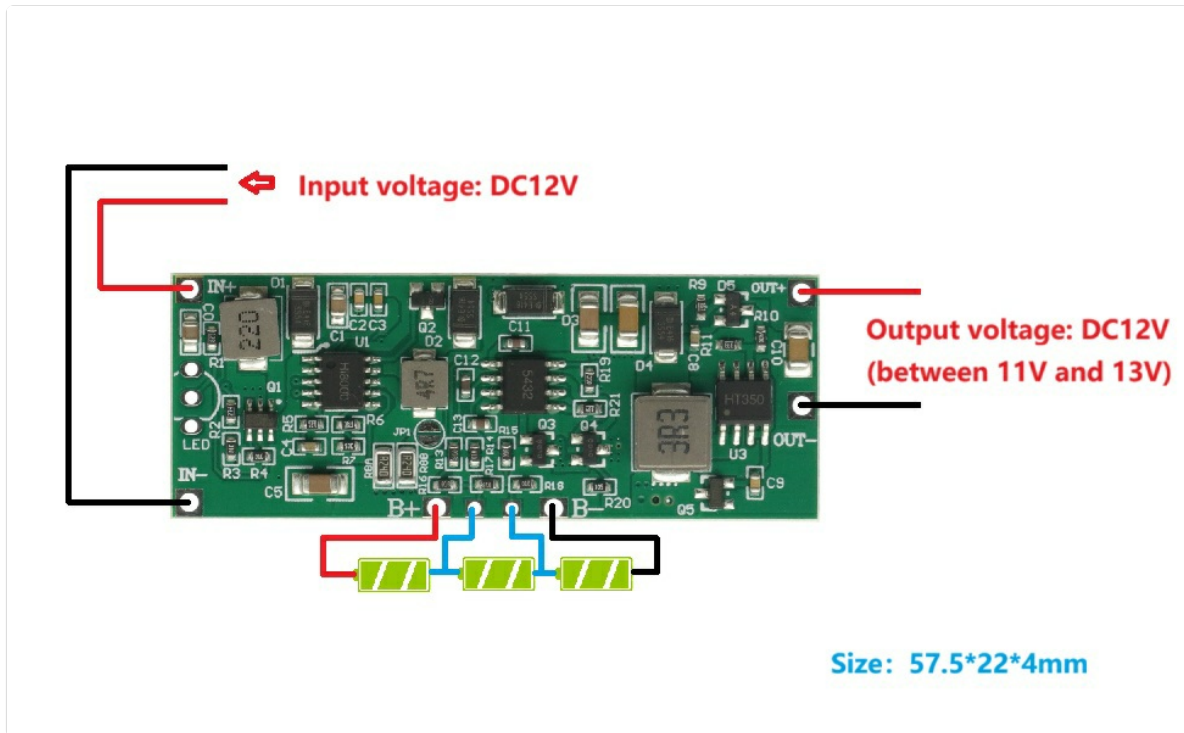


Figure 2: Detailed wiring diagram illustrating input, output, battery, and indicator light connections.

2.2 Important Connection Notes

- **Battery Connection:** Always connect the battery as the **last step** during installation. This is critical for safe operation.
- **Battery Type:** This module is designed for 3S lithium-ion battery packs, polymer battery packs, or 18650 battery packs.
- **Default Battery Pack Configuration:** The module can be connected to a battery pack using either 2 wires (positive and negative) or 4 wires. If using a 4-wire configuration, resistors R16, R17, and R18 on the board must be removed.
- **Wiring Quality:** Use at least 20AWG wire for soldering input and output connections. The wire length should not exceed 10 cm. Ensure connecting wires are as thick and short as possible to minimize resistance and power loss.
- **Heat Management:** The control board generates heat during operation. Install the module at a sufficient distance from the battery to prevent heat transfer and ensure proper ventilation.
- **Indicator Light:** To utilize the indicator light function, you will need to configure a 3mm common anode red/green light-emitting diode (LED) yourself. The red light indicates charging, and the green light indicates a fully charged battery.

3. OPERATION

Once properly installed, the UPS module operates automatically. When the primary DC12V input power is present, the module will power the connected device and charge the battery (if connected and not full). If the primary power supply is interrupted, the module will seamlessly switch to drawing power from the connected 3S battery pack, maintaining continuous operation of your device.

The external indicator light (if configured) will provide visual feedback on the charging status:

- **Red Light On:** Battery is currently charging.
- **Green Light On:** Battery is fully charged.

4. SPECIFICATIONS

Feature	Specification
Input Voltage	DC 12V
Output Voltage	DC 12V (between 11V and 13V)
Output Current	3 Amps
Maximum Output Power	36 Watts
Battery Charging Current	0.5 Amps (MAX)
Dimensions	57.5 x 22 x 4 mm (approximate)
Weight	0.02 Kilograms

5. MAINTENANCE

The GODIYMODULES 3S 12V UPS Module is designed for reliable operation and generally requires no routine maintenance. Ensure the module is kept clean and free from dust or moisture. Periodically inspect all wiring connections for security and integrity.

6. TROUBLESHOOTING

- **Device not receiving power:**
 - Check all input and output connections for proper wiring and secure contact.
 - Verify that the input DC12V power supply is active and providing the correct voltage.
 - Ensure the battery pack is correctly connected and charged.
- **Battery not charging:**
 - Confirm the input DC12V power supply is connected and functional.
 - Check the battery connections.
 - If an external indicator light is used, ensure it is correctly configured.

- **Module overheating:**

- Ensure adequate ventilation around the module.
- Verify that the module is installed at a sufficient distance from the battery or other heat sources.
- Confirm that the load connected to the output does not exceed the maximum output power of 36W.

7. WARRANTY INFORMATION

This GODIYMODULES product is covered by a 2-year manufacturer's warranty from the date of purchase. This warranty covers defects in materials and workmanship under normal use. For warranty claims or service, please retain your proof of purchase.

The return policy allows for a refund or replacement within 30 days of purchase, subject to the seller's terms and conditions.

8. SUPPORT INFORMATION

For technical assistance, troubleshooting, or further inquiries regarding your GODIYMODULES 3S 12V UPS Module, please contact your retailer or the manufacturer's support channels. Refer to your purchase documentation for specific contact details.