ZIZEV HCW-M632

ZIZEV HCW-M632 Charging Control Module User Manual

Model: HCW-M632 | Brand: ZIZEV

Introduction Specifications Setup Operation Maintenance Troubleshooting Support

1. Introduction

The ZIZEV HCW-M632 Charging Control Module is designed to manage the charging process for 12-24V storage batteries, ensuring optimal performance and extended battery lifespan. This module features precise digital voltage monitoring, automatic charge/discharge control, and a memory function to retain user-defined settings. It is suitable for various applications, including Li-Ion generators and solar panel lighting systems, providing reliable protection against overcharging and deep discharge.

2. Specifications

Product Model	HCW-M632
Input Voltage	DC10-30V
Control Current	20A maximum
Control Accuracy	0.1V
Output Type	Direct output
Voltage Error	±0.1V
Application	12-24V storage batteries
Product Size	Approx. 82 x 58 x 18mm (3.2 x 2.3 x 0.7in)
Construction	1.6mm thick double-layer glass fiber circuit board

3. Setup and Wiring

Before connecting the module, ensure all power sources are disconnected. The HCW-M632 module must be connected to the battery to function correctly; otherwise, the digital display will not activate.

3.1 Wiring Diagram

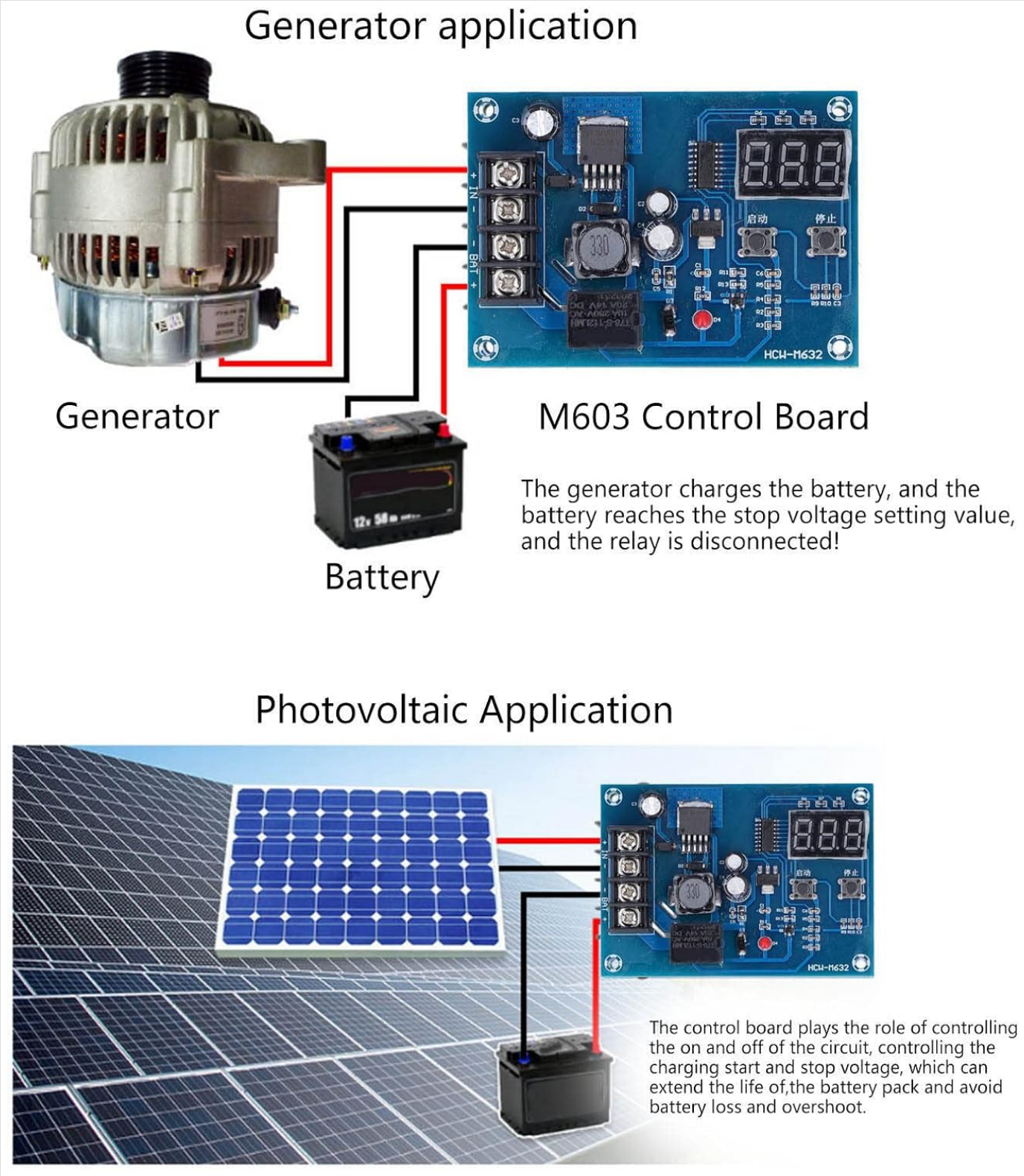


Figure 1: Connection examples for Generator and Photovoltaic applications. The module connects between the charging source (generator or solar panel) and the battery.

3.2 Connection Steps

1. **Identify Terminals:** The module has input terminals labeled "+IN" and "-IN" for the charging source, and output terminals labeled "+BAT" and "-BAT" for the battery.

2. **Connect to Battery:** Connect the "+BAT" terminal of the module to the positive terminal of your 12-24V storage battery. Connect the "-BAT" terminal of the module to the negative terminal of your battery.
3. **Connect Charging Source:** Connect the positive output of your charging source (generator or solar panel) to the "+IN" terminal of the module. Connect the negative output of your charging source to the "-IN" terminal of the module.
4. **Verify Connections:** Double-check all connections for correct polarity and secure fastening to prevent damage or malfunction.
5. **Power On:** Once all connections are secure, apply power to the charging source. The module's digital display should illuminate, indicating it is operational.

Important Note: The module's relay controls the charger's output by interrupting one wire circuit. Ensure your charging source is compatible with this control method.

4. Operating Instructions

The HCW-M632 module provides real-time voltage monitoring and automatic control of charging based on user-defined voltage thresholds.

4.1 Module Overview

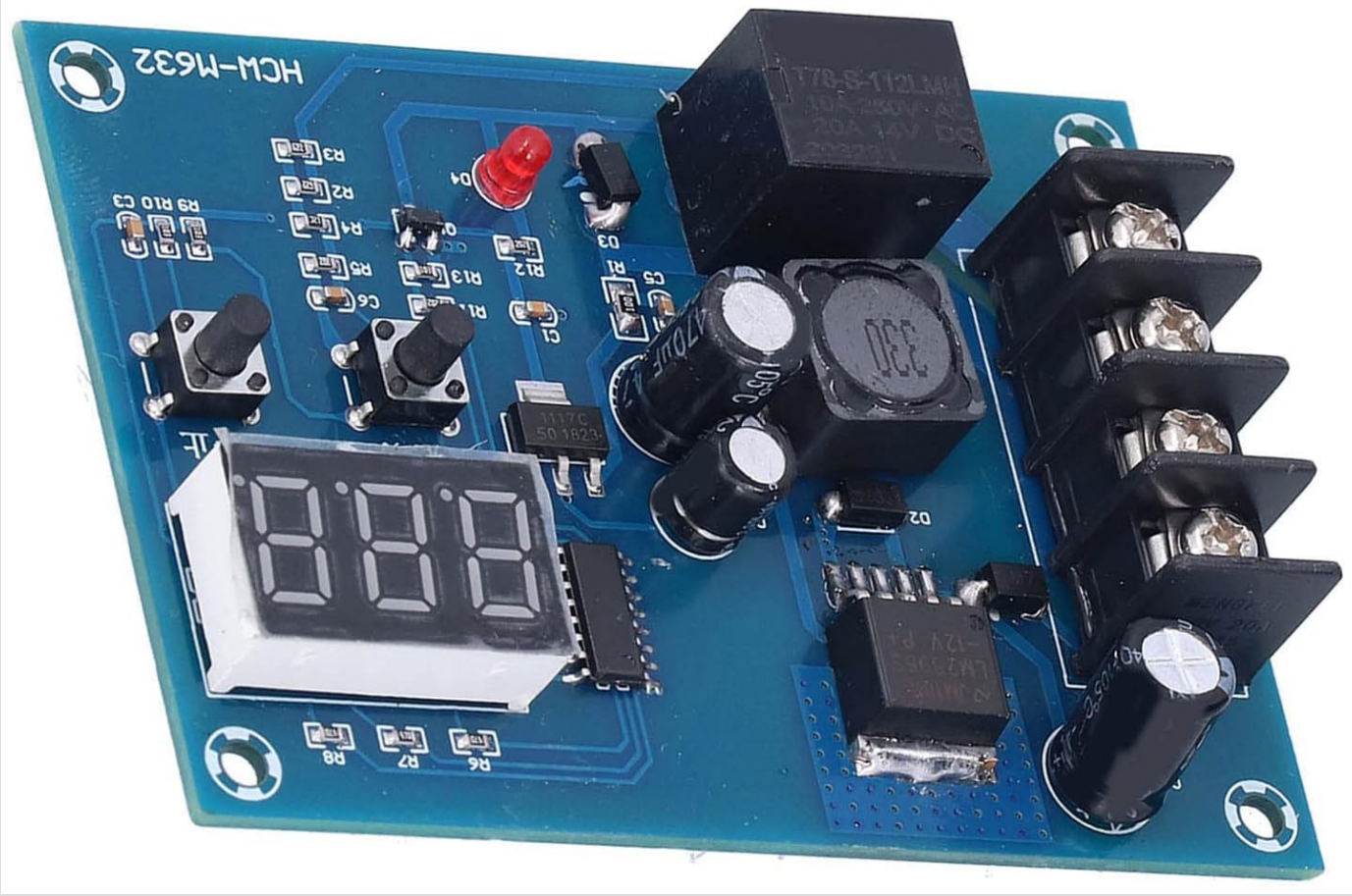


Figure 2: ZIZEV HCW-M632 Control Module with labeled buttons.

4.2 Setting Voltage Thresholds

The module features two buttons, typically labeled " " (Start) and " " (Stop), which correspond to the charge start voltage and charge stop voltage respectively.

- **Setting Start Voltage:** Press and hold the " " (Start) button. The digital display will flash, allowing you to adjust the desired voltage for charging to begin. Use the " " and " " buttons to increase or decrease the value. Release the button to save the setting.

- **Setting Stop Voltage:** Press and hold the " " (Stop) button. The digital display will flash, allowing you to adjust the desired voltage for charging to cease. Use the " " and " " buttons to increase or decrease the value. Release the button to save the setting.

The module automatically retains these user-defined settings even after power interruptions, eliminating the need for repeated adjustments.

4.3 Automatic Charging Control

- When the battery voltage drops below the set **Start Voltage**, the module will activate the relay, allowing the charging source to charge the battery.
- When the battery voltage reaches the set **Stop Voltage**, the module will deactivate the relay, cutting off the charging current to prevent overcharging.
- The digital display provides real-time voltage readings, allowing you to monitor the battery status accurately.

5. Maintenance

To ensure the longevity and reliable operation of your ZIZEV HCW-M632 Charging Control Module, follow these maintenance guidelines:

- **Keep Clean:** Periodically clean the module's surface with a soft, dry cloth. Avoid using harsh chemicals or abrasive materials.
- **Check Connections:** Regularly inspect all wiring connections to ensure they are secure and free from corrosion. Loose connections can lead to intermittent operation or damage.
- **Environmental Conditions:** Ensure the module is operated within its specified temperature and humidity ranges. Avoid exposing it to direct sunlight, excessive moisture, or extreme temperatures.
- **Ventilation:** Ensure adequate airflow around the module to prevent overheating, especially during prolonged operation at maximum current.

6. Troubleshooting

If you encounter issues with your HCW-M632 module, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Digital display does not light up.	Module not connected to battery, or incorrect polarity.	Ensure the module is correctly connected to a 12-24V battery with correct polarity. The module requires battery connection to power its display.
Charging does not start when voltage is low.	Start voltage threshold set too low or too high; faulty connections.	Verify the "Start" voltage setting. Check all wiring connections for security and continuity. Ensure the charging source is active.
Charging does not stop when battery is full.	Stop voltage threshold set too high or too low; relay malfunction.	Verify the "Stop" voltage setting. If settings are correct, the relay might be faulty. Contact support.
Inaccurate voltage readings.	Poor connections; external interference.	Check and secure all wiring connections. Ensure the module is not exposed to strong electromagnetic interference.

7. Warranty and Support

For technical assistance, warranty information, or to report any issues with your ZIZEV HCW-M632 Charging Control Module, please contact ZIZEV customer support through the retailer where the product was purchased or visit the official ZIZEV website for contact details.
Please have your product model (HCW-M632) and purchase details ready when contacting support.

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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.

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