

## Renogy RNG-INVT-C-RC

# Renogy LCD Remote Control Module User Manual

Model: RNG-INVT-C-RC

## 1. INTRODUCTION

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The Renogy LCD Remote Control Module is designed for exclusive use with specific Renogy 1000W, 2000W, and 3000W pure sine wave inverter chargers. This module enables remote monitoring of your inverter charger's performance, displaying critical information such as AC input and output voltage, output frequency, and battery voltage. Its flush-mountable design allows for convenient placement, providing easy access to the power saver switch without needing to access the main inverter charger unit directly.

**Compatibility Note:** This LCD remote is compatible with Renogy inverter charger ASINs: B01MS9EI8Q, B01MUCN1WJ, B07CZQC22R. It is **not** compatible with newer Renogy inverter chargers that feature an integrated LCD display (e.g., ASINs: B07PQR8HVQ, B07PNGVMZK).

## 2. SAFETY INFORMATION

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**WARNING:** This unit contains high internal voltage. Read and understand all instructions thoroughly before operating or installing this unit. Do not open or disassemble the unit to avoid serious injury or death from fire, explosion, or electrical shock. For any troubleshooting needs, contact the Renogy technical support team at 1-800-330-8678.

## 3. PRODUCT OVERVIEW

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The Renogy LCD Remote Control Module provides essential monitoring and control functions for your compatible inverter charger. Key features include:

- Remote on/off switch for Renogy 1000W, 2000W, and 3000W pure sine wave inverter chargers.
- Flush-mountable design for clean and simple installation.
- Displays AC input and AC output voltage, output frequency, and battery voltage.
- LED indicator light and control knobs for easy readability and operation.
- Includes a 10-meter (32.8 ft) long RJ45 connector cable for remote hookup.

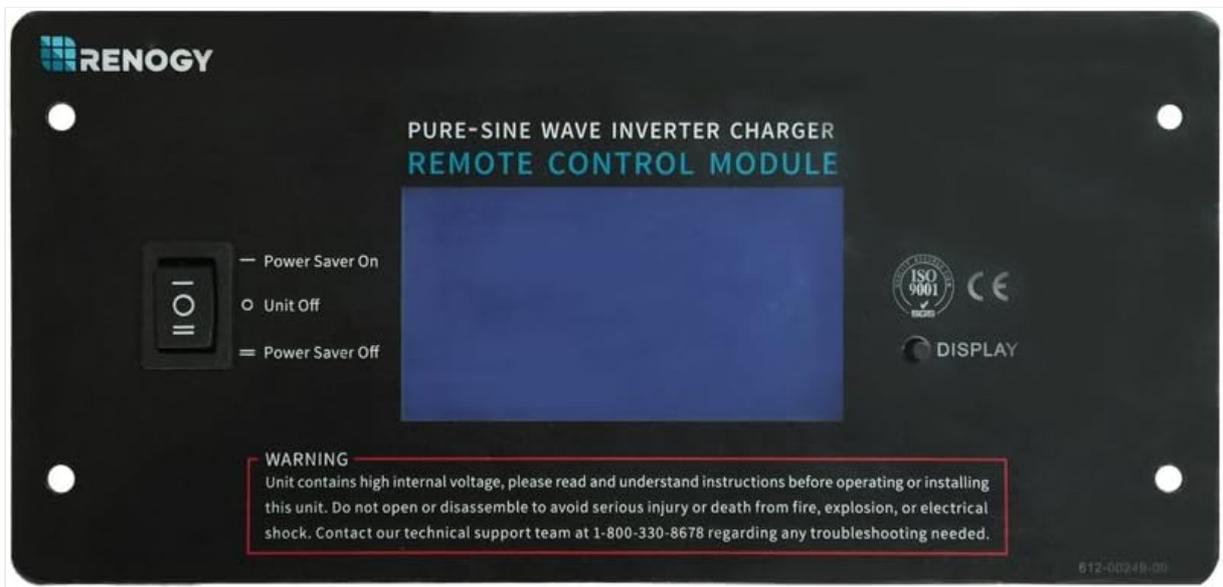


Figure 3.1: Front view of the Renogy LCD Remote Control Module, showing the display, power switch, and warning label.



Figure 3.2: Side view of the Renogy LCD Remote Control Module, highlighting the RJ45 communication port.

## 4. SETUP AND INSTALLATION

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The Renogy LCD Remote Control Module is designed for flush mounting, providing a clean and integrated appearance. Follow these steps for installation:

1. **Choose a Location:** Select a convenient, dry, and well-ventilated location for flush mounting the remote module. Ensure the chosen location is within 10 meters of your compatible Renogy inverter charger.
2. **Prepare the Opening:** Carefully cut an opening in the mounting surface that matches the dimensions of the remote module for a flush fit. Refer to the product dimensions in the Specifications section for precise measurements.
3. **Connect the RJ45 Cable:** Connect one end of the provided 10-meter RJ45 communication cable to

the RJ45 port on the back of the remote control module.

4. **Connect to Inverter Charger:** Route the other end of the RJ45 cable to your compatible Renogy inverter charger and plug it into the designated remote port. Ensure a secure connection at both ends.
5. **Secure the Module:** Insert the remote module into the prepared opening and secure it using appropriate fasteners (not included) through the mounting holes on the module's faceplate.



Figure 4.1: The 10-meter RJ45 communication cable included with the remote module.

## 5. OPERATING INSTRUCTIONS

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Once installed and connected, the Renogy LCD Remote Control Module provides real-time monitoring and control:

- **Power Switch:** The remote features a three-position switch:
  - **Power Saver On:** Activates the power saver mode on the inverter charger, reducing standby power consumption.
  - **Unit Off:** Turns off the inverter charger.
  - **Power Saver Off:** Disables the power saver mode, allowing the inverter charger to operate at full capacity.
- **LCD Display:** The LCD screen will display various operational parameters of your inverter charger, including:
  - AC Input Voltage
  - AC Output Voltage
  - Output Frequency
  - Battery Voltage
- **LED Indicator:** An LED indicator light provides quick visual status of the inverter charger's operation.
- **Control Knobs:** Use the control knobs (if present on your specific remote version) to navigate through display menus or adjust settings as per your inverter charger's capabilities.

## 6. MAINTENANCE

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The Renogy LCD Remote Control Module requires minimal maintenance. To ensure optimal performance and longevity:

- **Cleaning:** Keep the module clean by wiping it with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- **Connection Check:** Periodically inspect the RJ45 cable and its connections to ensure they are secure and free from damage.
- **Environmental Conditions:** Ensure the module is not exposed to extreme temperatures, direct sunlight, or excessive moisture, which could affect its performance and lifespan.

## 7. TROUBLESHOOTING

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If you encounter issues with your Renogy LCD Remote Control Module, consider the following troubleshooting steps:

- **No Display/Power:**
  - Verify that the RJ45 cable is securely connected to both the remote module and the inverter charger.
  - Ensure the inverter charger itself is powered on and functioning correctly.
  - Check the cable for any visible damage.
- **Incorrect Readings:**
  - Confirm that the remote module is compatible with your specific inverter charger model (refer to the Introduction section).
  - Ensure the inverter charger is operating within its normal parameters.
- **Remote Not Responding:**
  - Cycle the power on the inverter charger (turn off, wait a few minutes, then turn back on).
  - Ensure the remote's power switch is in the desired position.

If problems persist after attempting these steps, please contact Renogy technical support for further assistance.

## 8. SPECIFICATIONS

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Feature	Specification
Model Number	RNG-INVT-C-RC
Product Dimensions	7.85 x 3.75 x 1.25 inches (19.9 x 9.5 x 3.2 cm)
Item Weight	13.6 ounces (385.6 g)
Communication Cable Length	10 meters (32.8 feet)
Display Parameters	AC Input Voltage, AC Output Voltage, Output Frequency, Battery Voltage
Compatibility	Renogy 1000W, 2000W, 3000W Pure Sine Wave Inverter Chargers (specific models)

## 9. WARRANTY AND SUPPORT

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For warranty information regarding your Renogy LCD Remote Control Module, please refer to the user manual of your main Renogy inverter charger or visit the official Renogy website. Warranty terms and conditions may vary.

**Technical Support:** If you require technical assistance, have questions about installation, operation, or troubleshooting, please contact Renogy's customer support team:

- **Phone:** 1-800-330-8678
- **Website:** Visit the official Renogy website for additional resources, FAQs, and contact options.