

EPEVER EPEVER-BLE-RJ45-A

EPEVER BLE-RJ45-A Bluetooth Module Instruction Manual

Model: EPEVER-BLE-RJ45-A

1. PRODUCT OVERVIEW

The EPEVER BLE-RJ45-A is an optional Bluetooth module designed to enable wireless communication with EPEVER/EPsolar brand solar charge controllers, inverters, and inverterchargers. This module allows users to remotely monitor device status and modify operational parameters using a mobile application or cloud server.



Image 1.1: Front view of the EPEVER BLE-RJ45-A Bluetooth Module, showing Link and Power indicators, and RS485 port.

It is compatible with various EPEVER solar charge controller series, including Tracer-AN, Tracer-BN, XTRA-N, Triron-N, Tracer-BP, LS-B, LS-BP, VS-BN, eTracer, and iTracer. Please note that this module is not compatible with other brands of controllers.

Bluetooth Adapter Fit for EPEVER Controllers



EPEVER-BLE-RJ45-A is a new Bluetooth module suitable for EPEVER solar controller, inverter, and inverter/charger. It can independently complete the communication and data collection. Customers can remotely monitor the device connected to the EPEVER-BLE-RJ45-A and modify related parameters by the cloud server or mobile APP.



Tracer-AN



XTRA



TRIRON-N



VS-BN



Tracer-BP

(CC-RS485-RS485-150U-4LLT)



Tracer- BN



iTracer



LS-B

Image 1.2: The EPEVER BLE-RJ45-A Bluetooth Module shown with various compatible EPEVER solar charge controllers such as Tracer-AN, XTRA, Triron-N, VS-BN, Tracer-BP, Tracer-BN, iTracer, and LS-B.

2. FEATURES

- Wireless monitoring of solar controllers, inverters, and inverter/chargers.
- Supports communication via cloud server or mobile APP.
- Convenient connection and operation.
- Equipped with a high-performance, low-power consumption Bluetooth chip.
- Adapts Bluetooth 5.0 and BLE (Bluetooth Low Energy) technology.
- Features fast communication and strong anti-interference ability.

- No external power supply required; powered directly by the communication port.
- Communication distance of up to 10 meters.
- Includes a reload button to restore factory settings.



EPEVER-BLE-RJ45-A

Bluetooth Module

Overview

EPEVER-BLE-RJ45-A is a new Bluetooth module suitable for EPEVER solar controller, inverter, and inverter/charger. It can independently complete the communication and data collection. Customers can remotely monitor the device connected to the EPEVER-BLE-RJ45-A and modify related parameters by the cloud server or mobile APP.

Features

- Wireless monitoring the solar controller, inverter, and inverter/charger
- Support cloud server or APP communication
- Convenient connection and operation
- Equipped with a high-performance, low-power consumption Bluetooth chip
- Adapt Bluetooth 5.0 and BLE technology
- Feature fast communication and strong anti-interference ability
- No external power supply (powered by communication port directly)
- Up to 10 meters communication distance
- Reload button to restore the factory settings

Image 2.1: Detailed overview and list of features for the EPEVER BLE-RJ45-A Bluetooth Module.

3. TECHNICAL SPECIFICATIONS

Parameter	EPEVER-BLE-RJ45-A
Input voltage	5V± 0.5V (Powered by RS485 com. port)
Power consumption	5V@30mA
Communication distance	≤ 10m
Serial port baud rate	2400 ~ 115200bps (default 115200bps)
Communication method	RS485 to Bluetooth
Connection port	RJ45 port
Connection cable	Standard network cable (parallel line)
Bluetooth protocol	Bluetooth 5.0, compatible with Bluetooth 4.0
Dimension	51 x 67 x 24.5mm
Mounting dimension	41.2, Φ3.2
Working temperature	-20 ~ 70°C
Enclosure	IP30
Net Weight	38.5g

Technical Specifications

Parameter	EPEVER-BLE-RJ45-A
Input voltage	5V± 0.5V(Powered by RS485 com. port)
Power consumption	5V@30mA
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Communication method	RS485 to Bluetooth
Connection port	RJ45 port
Connection cable	Standard network cable (parallel line)
Bluetooth protocol	Bluetooth 5.0, compatible with Bluetooth 4.0
Dimension	51* 67* 24.5mm
Mounting dimension	41.2, Φ3.2
Working temperature	-20~70°C
Enclosure	IP30
Net Weight	37.9g

Image 3.1: Table detailing the technical specifications of the EPEVER BLE-RJ45-A Bluetooth Module.

4. SETUP AND INSTALLATION

The EPEVER BLE-RJ45-A module connects directly to your compatible EPEVER solar charge controller via an RJ45 communication port. No external power supply is needed as the module draws power from the controller's communication port.

1. Locate the RJ45 communication port on your EPEVER solar charge controller.
2. Connect one end of the standard network cable (parallel line) to the RJ45 port on the EPEVER BLE-RJ45-A module.
3. Connect the other end of the network cable to the RJ45 communication port on your EPEVER solar charge controller.
4. Once connected, the 'Power' indicator on the BLE-RJ45-A module should illuminate, indicating it is receiving power. The 'Link' indicator will show communication status.



Image 4.1: The EPEVER BLE-RJ45-A Bluetooth Module shown alongside its connecting RJ45 cable.

5. OPERATING INSTRUCTIONS (MOBILE APP)

To monitor and modify parameters, you will need to use the official EPEVER mobile application. Ensure your mobile device's GPS/location services are enabled for the app to function correctly.

5.1 App Download and Connection

1. **Download the App:** Search for "Epever Pair" in your mobile device's app store (Google Play Store for Android or Apple App Store for iOS). Download and install the official "Epever Pair" application. *Avoid other Epever-related apps like "(li)epever" as they may be buggy or incompatible.*
2. **Open the App:** Launch the "Epever Pair" application on your mobile device.
3. **Enter BLE Connection Page:** On the app's main screen, click the "Local" icon to proceed to the Bluetooth Low Energy (BLE) connection page. Note that BLE does not support cloud functionality.
4. **Search for Modules:** Click the "BLE" icon within the app to automatically search for available Bluetooth modules.
5. **Connect to Module:** From the list of found modules, click on your module's name (e.g., "HN_00900") to establish a connection.

Download keyword: epever pair
Suitable for Android and IOS

Click the "Local" icon to enter
the BLE connection page

Click the "BLE" icon to search
the modules automatically

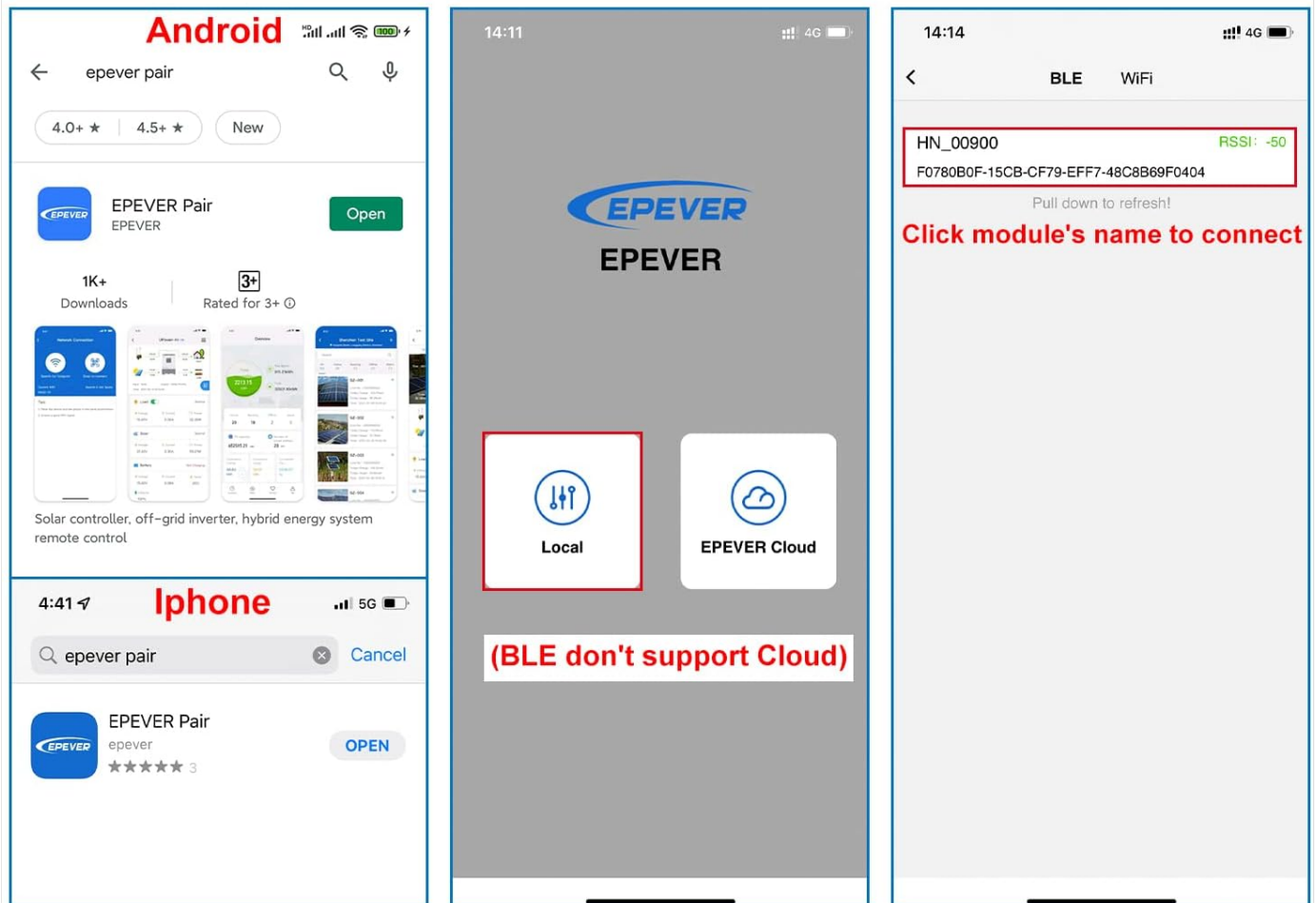


Image 5.1: Step-by-step guide for downloading the "Epever Pair" app and connecting to the Bluetooth module.

5.2 Monitoring and Parameter Modification

- 1. Main Information Page:** Once connected, the app will display the main information page, showing real-time data from your connected controller, such as PV voltage, current, power, battery temperature, capacity, voltage, and load information.
- 2. Modify Parameters:** To adjust settings, click the "setting" icon (often represented by a gear or cogwheel) on the main information page.
- 3. Access Parameter Categories:** You will be presented with various parameter categories such as Slave Address, Load, Battery, and Time. Select the category you wish to modify.
- 4. Adjust Settings:** Within each category, you can adjust specific parameters. For example, under "Battery," you can select battery type (AGM, GEL, FLD, LFP, etc.) and rated voltage level. Under "Load," you can set working modes.
- 5. Save Changes:** After making adjustments, ensure you click the "Write" or "Submit" button to save the new settings to the controller.

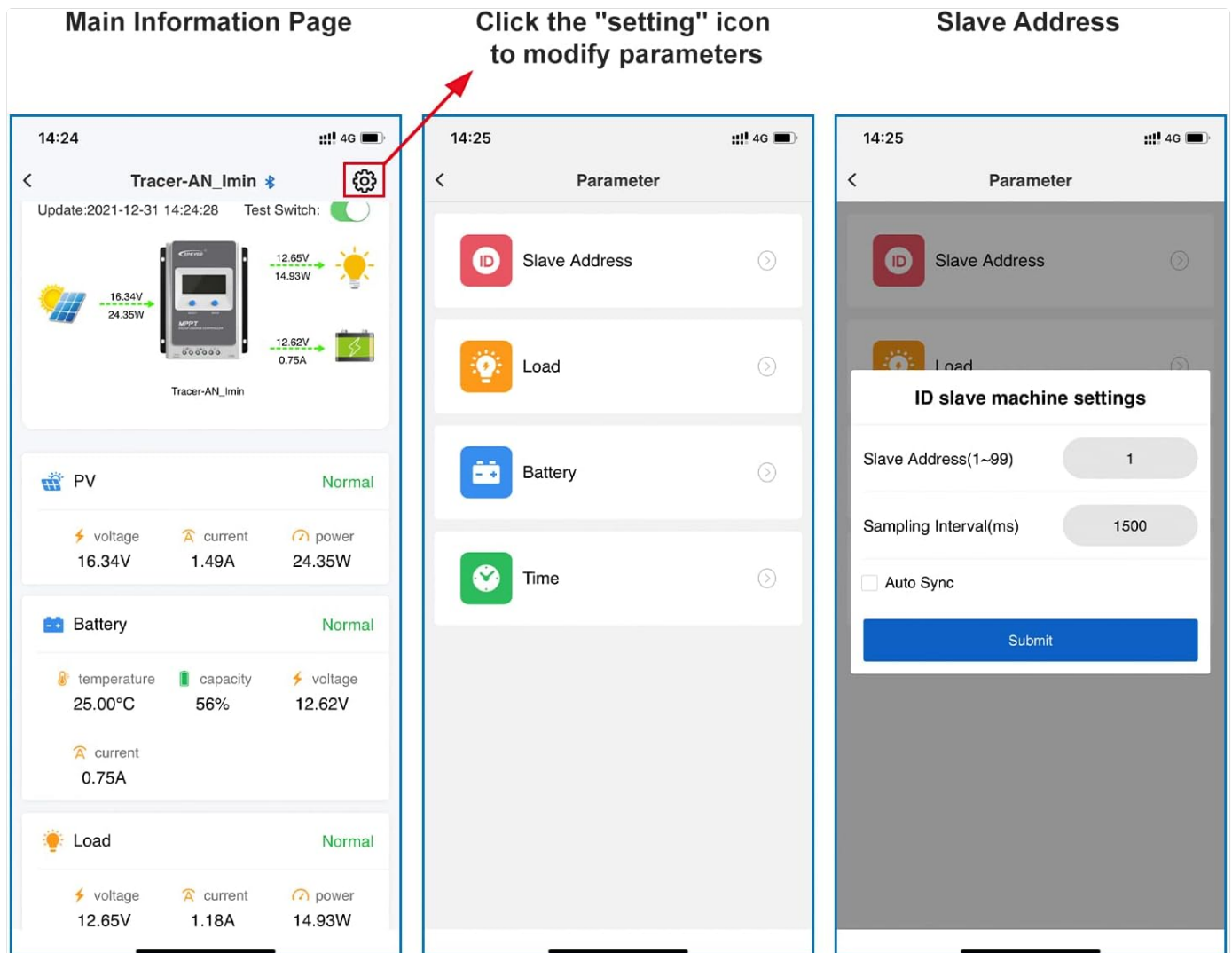


Image 5.2: Screenshots illustrating the app's main information display and the process for accessing and modifying parameters.

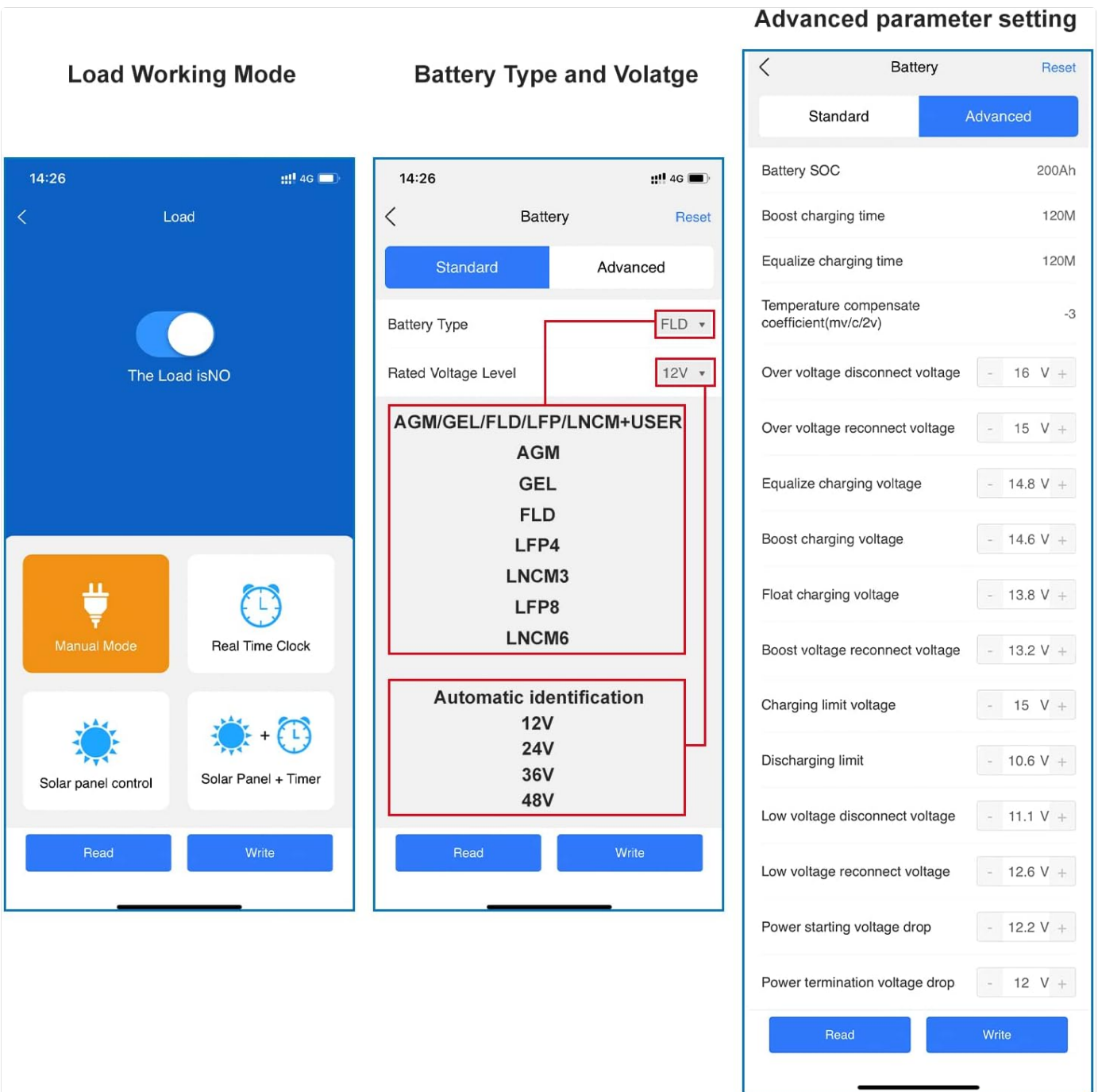


Image 5.3: Examples of advanced parameter settings within the app, including load working modes and battery type/voltage configurations.

6. TROUBLESHOOTING

• Module Not Found by App:

- Ensure the EPEVER BLE-RJ45-A module is correctly connected to the controller and its 'Power' indicator is on.
- Verify that you have downloaded and are using the correct app: "Epever Pair". Other Epever apps may not be compatible.
- Confirm that Bluetooth is enabled on your mobile device.
- Ensure your mobile device's GPS or location services are enabled. Some Bluetooth apps require this for device discovery.
- Try restarting the app or your mobile device.

• Inconsistent App Behavior:

- Ensure your app is updated to the latest version.

- Check for any firmware updates for your EPEVER controller, as compatibility issues can sometimes arise.
- If issues persist, try reinstalling the "Epever Pair" app.

- **Restoring Factory Settings:**

- The module features a 'Reset' button. Pressing this button will restore the module to its factory default settings. This can be useful for resolving persistent communication issues.

7. RELATED ACCESSORIES

EPEVER offers a range of accessories that can enhance your solar power system monitoring and control:

- **MT50 Remote Meter:** A display unit for monitoring controller data.
- **EPEVER-WiFi-2.4G-RJ45-A WiFi Adapter:** For WiFi connectivity instead of Bluetooth.
- **RTS300R47K3.81A Temp Sensor Cable:** External temperature sensor for accurate battery temperature compensation.
- **CC-RS485-USB-150U PC Communication Cable:** For connecting the controller to a PC for monitoring and configuration.
- **eLOG01 Logger:** A data logger for recording system performance over time.



EPEVER-BLE-RJ45-A

BLE Adapter

Main feature

- Wireless monitoring the solar controller, inverter, or inverter/charge
- Support EPEVER server or APP communication
- Convenient connection and operation
- Equipped with a high-performance, low-power consumption Bluetooth chip
- Adapt Bluetooth 5.0 and BLE technology
- Feature fast communication and strong anti-interference ability
- No external power supply (powered by communication port directly)
- Up to 10 meters communication distance
- Reload button to restore the factory setting

Image 7.1: An illustrative diagram showcasing the EPEVER BLE-RJ45-A module and other EPEVER accessories, demonstrating how they connect within a solar power system.

8. WARRANTY AND SUPPORT

GolandCentury is an official authorized sales agent for the EPEVER brand, providing the latest versions of controllers, inverters, and accessories. They offer comprehensive technical support to ensure customer satisfaction.

GolandCentury has established warehouses and service centers in key locations including Chicago (USA), Munich (Germany), Toronto (Canada), and Melbourne (Australia). Technical support is provided free of charge to assist

customers with their solar product inquiries and issues.

For technical assistance or warranty claims, please contact the authorized service center in your region.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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.

Submit question