EPEVER EPEVER-WiFi-2.4G-RJ45-D

EPEVER WiFi Adapter Instruction Manual

Model: EPEVER-WiFi-2.4G-RJ45-D

Brand: EPEVER

1. Introduction

The EPEVER WiFi Adapter (EPEVER-WiFi-2.4G-RJ45-D) is designed for real-time data transmission from EPEVER solar charge controllers, inverters, and hybrid inverter chargers equipped with an RJ45 port. This accessory enables wireless monitoring and parameter setting of your solar system via mobile applications or large screens, offering both local offline mode and remote online monitoring capabilities.

Image: EPEVER WiFi Adapter (EPEVER-WiFi-2.4G-RJ45-D)

2. Key Features

- **2.4G WiFi Networking Communication:** Utilizes standard 2.4G WiFi for reliable data transfer.
- **Compatibility:** Works with EPEVER controllers, inverters, and inverter chargers featuring an RJ45 port.
- **Plug-and-Play:** Easy and convenient operation; directly powered by the communication port, requiring no external power.
- **Communication Distance:** Supports up to 20 meters in offline local mode.
- **Two Working Modes:** Offers both Offline Local Monitoring and Online Monitoring (via cloud server).
- **Remote Monitoring:** Monitor your solar system from anywhere with internet access (Online Mode).

Image: Main features of the EPEVER WiFi Adapter.

3. Compatibility

This WiFi adapter is specifically designed for use with EPEVER brand controllers, inverters, or inverter/chargers that feature an RJ45 communication port. Compatible series include, but are not limited to, Tracer-AN, Triron-N, Tracer-BN, and XTRA-N series MPPT solar charge controllers.

WIFI Adapter Fit for EPEVER Controllers

The EPEVER WiFi 2.4G RJ45 D WiFi adapter is mainly used for real-time transmission of various power generation data from EPEVER controllers, inverters, hybrid inverter chargers, etc. to the EPEVER cloud server. It supports wireless monitoring and parameter setting of on-site devices via cloud servers, mobile apps, or large screens.

Image: EPEVER WiFi Adapter compatible with various EPEVER controllers like Tracer-AN, XTRA, TRIRON-N, VS-BN, Tracer-BP, Tracer-BN, and iTracer.

4. Technical Specifications

Parameter	EPEVER WiFi 2.4G RJ45 D
Working voltage	5V±0.5V (Powered by RS485 com. port)
Power consumption	Peak emission: 150mA; Idle: 310uA
Communication protocol	EPEVER communication protocol V1.1
Communication para	115200Bps, 8N1
Communication method	RS485

Parameter	EPEVER WiFi 2.4G RJ45 D
Interface standard	EPEVER general communication standardV1-1.0
Working frequency	2.4 ~ 2.4835GHz
Environment temperature	-40℃ ~ 85℃
Enclosure	IP54
Dimension	63* 19* 10mm
Net weight	7.7g

Image: Technical specifications for the EPEVER WiFi 2.4G RJ45 D adapter.

Note: The WiFi adapter working voltage is 4.5V~5.5V and peak emission is 150mA, which is only suitable for devices that meet this requirement.

5. Setup and Connection

5.1. App Download

Download the "Solar Guardian" application from your device's app store. This app is available for both Android and iOS systems.

Image: QR codes for downloading Solar Guardian App from Apple App Store and Google Play.

Download on the App Store | Get it on Google Play

5.2. WiFi Online Mode Setup

This mode allows remote monitoring from anywhere with internet access. The connection process can be complex; please follow the steps carefully.

1. Download and install the "SOLAR GUARDIAN" APP.
2. Login to the APP. For first-time login, you need to register your account.
3. Click "Add" to create a new site. Fill in site description, user name, phone number, and company details.
4. Select "One Click Add". Click "Access Method" and select "EPEVER WIFI 2.4G RJ45D". Scan the QR code on the back of the EPEVER WiFi 2.4G RJ45D adapter for "Gateway SN". Ensure "Location" box is checked. Fill in "Communication ID Number" according to prompts. Select the corresponding product series for your controller.
5. Enter your home Wi-Fi code and click "Next Step".
6. Click "WIFI Settings", select the Wi-Fi corresponding to "HN-EP*****" for network configuration, and the configuration is successful. Click "Next".
7. Switch to your Home Wi-Fi. You can click "Network Switch" to switch to Home Wi-Fi.
8. The display of "Online" indicates a successful connection.

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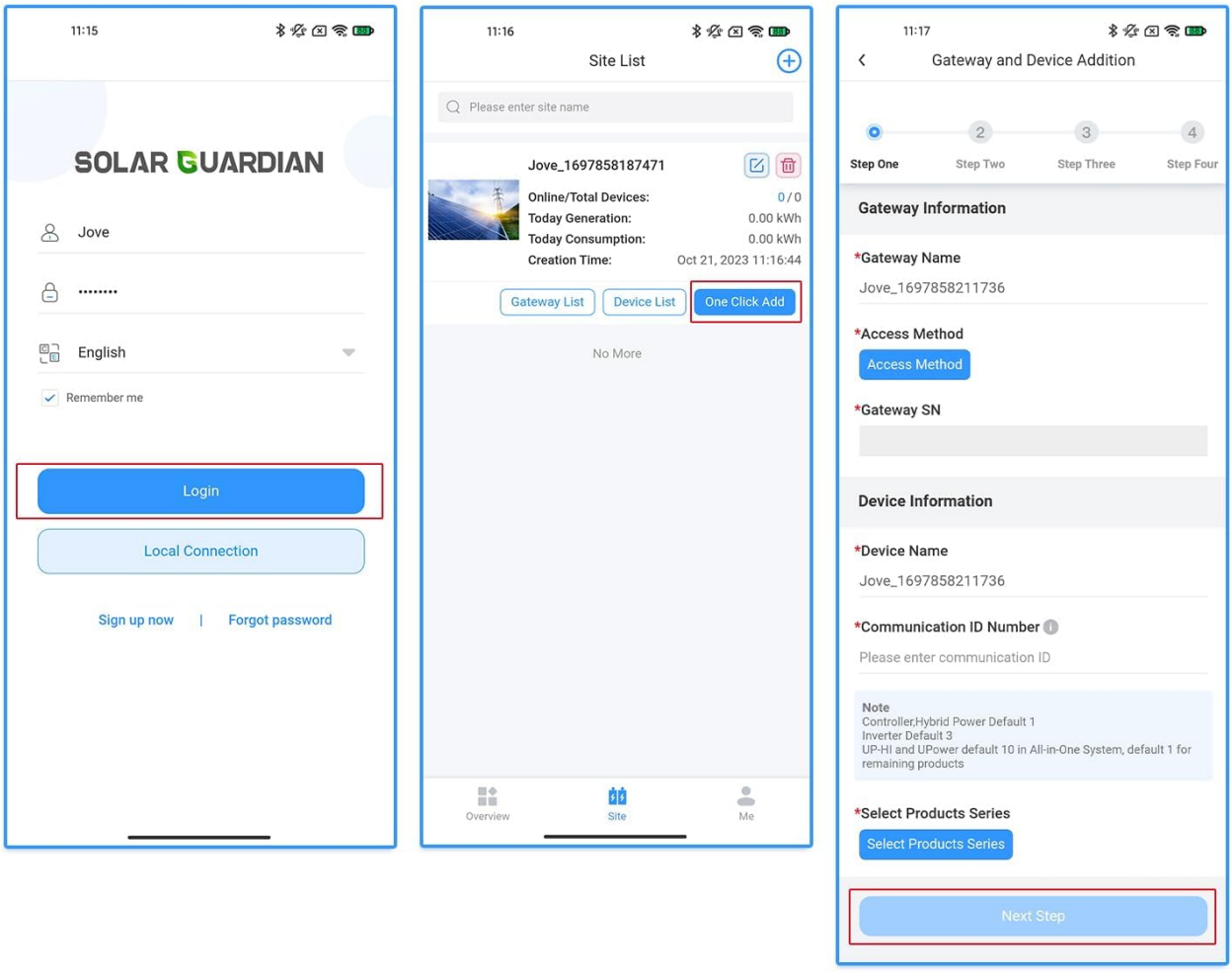
Video: Detailed guide on setting up the EPEVER WiFi Adapter for online monitoring with the Solar Guardian App.

WiFi Online Mode Steps



Login to the "APP" and click on "Login"

Select "One Click Add" to add 'Gateway SN'

scan the QR code on the back of Device

Image: Visual steps for logging in, adding a site, and scanning the gateway SN for online mode setup.

Image: Visual steps for entering Wi-Fi details and confirming successful online connection.

5.3. WiFi Local Mode Setup

Local mode allows monitoring within a 20-meter range without internet access.

1. Login to the APP and click "My > Collect Data". Select all products and click "Synchronize data" to download data.
2. After all data is downloaded, return to the APP. Click the "Home > Offline".
3. Select the module type (WIFI).
4. Turn on your phone's Wi-Fi and connect to the gateway Wi-Fi (HN_EPSN: xxxxxx, password: 12345678).
5. Return to the APP and click "Equipment>Add equipment". Click "Confirm" to add the device.
6. On the "Device List" page, click the gateway SN to enter the device's real-time monitoring page.

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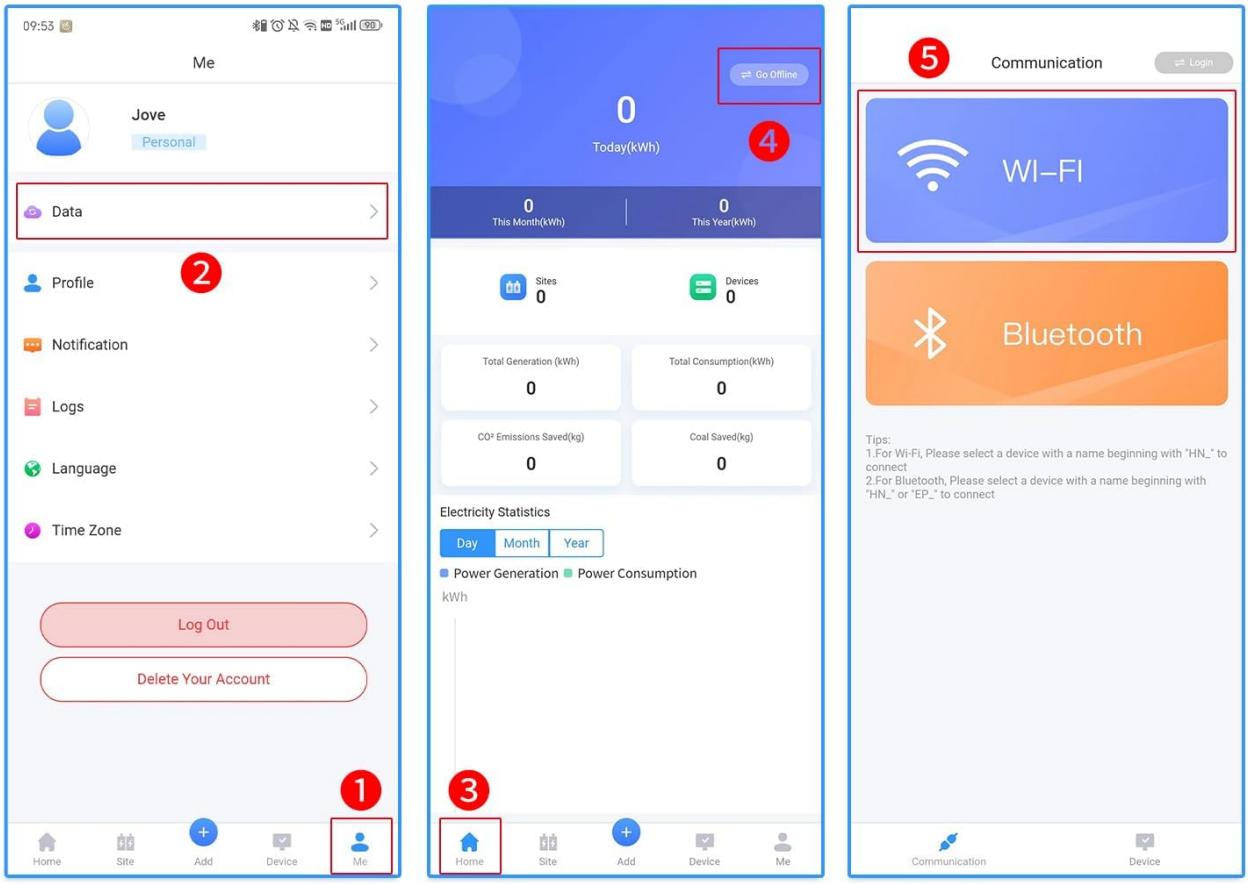
Video: Step-by-step instructions for setting up the EPEVER WiFi Adapter in offline local mode.

WiFi Local Mode Steps



Login to the APP and click "My > Collect Data. " Select allproducts and click the"Synchronize data" todownload data.

After all data is downloaded, return to the APP. Click the "Home > Offline."

Select themodule type (WIFI)

Image: Visual steps for accessing offline mode and selecting the module type.

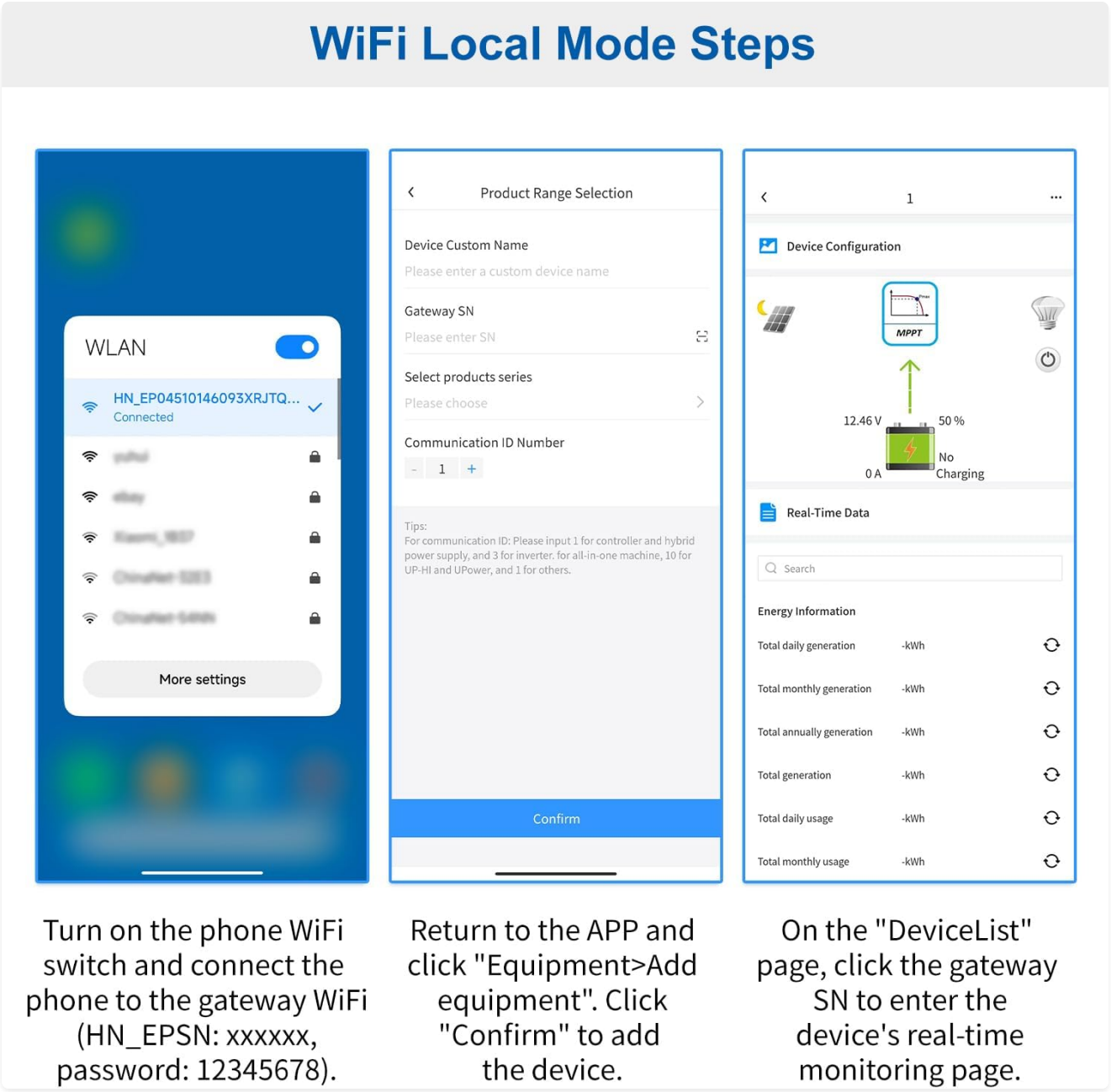


Image: Visual steps for connecting to the gateway Wi-Fi and adding the device in local mode.

6. Operating the Solar Guardian App

6.1. Real-Time Data Monitoring

After a successful connection (either online or local), the parameters of your solar system will be read automatically and displayed in real-time. This includes PV voltage, current, power, battery voltage, current, temperature, SOC, and load information.

Your browser does not support the video tag.

Video: Demonstrates real-time data monitoring and parameter settings within the Solar Guardian App.

6.2. Parameter Settings

The app allows you to view and modify various system parameters. Always consult your battery manufacturer's guidelines before making changes.

- **Battery Parameter Settings:** The system automatically reads parameters. You can manually enter or modify battery capacity, temperature compensation, and Li-ion battery protection settings. Click "Read" to get current parameters and "Apply" or "Send" to save changes.
- **Battery Control Parameter:** The system automatically reads this data. Note that the system parameter is default value when "Rated voltage" is "Auto" and cannot be modified. If you need to modify parameters, select "Rated voltage" as 12V/24V, and "Battery Type" as "User". Click "Reset" to restore default parameters.
- **Load Configuration:** We recommend selecting "Manual control" for load control mode. You can manually turn the load ON/OFF.
- **Timing Control:** Set specific times for load operation (Light On, Light On+Timer).
- **Device Parameter Settings:** Automatic system reading of device-specific parameters.
- **Basic Parameter Settings:** Includes load switch control (ON/OFF), return to default settings, and clear accumulated energy data.

7. Maintenance

The EPEVER WiFi Adapter requires minimal maintenance. Ensure the device is kept in a clean, dry environment. Regularly check the RJ45 connection for secure fit. Keep the app updated to the latest version for optimal performance and security.

8. Troubleshooting

- **App Not Opening/Crashing:** Ensure your device's operating system is up to date. Try reinstalling the Solar Guardian app.
- **Connection Drops (Online Mode):** Verify a stable 2.4G Wi-Fi network connection. If issues persist, try unplugging and replugging the adapter to reset it. Consider the distance to your Wi-Fi router (max 20 meters for local mode, but online mode relies on your home network's range).
- **Unable to Modify Parameters:** In online mode, ensure the "Rated voltage" is set to 12V/24V/36V/48V and "Battery Type" is set to "User" to enable manual parameter modification. Otherwise, the system parameters are default and cannot be changed.
- **No Data Displayed:** Check if the adapter is securely connected to the controller's RJ45 port. Ensure the app is connected to the correct gateway (for online mode) or the adapter's Wi-Fi hotspot (for local mode).

9. Warranty and Support

EPEVER products typically come with a manufacturer's warranty. For specific warranty details, please refer to the documentation included with your product or visit the official EPEVER website. For technical support, troubleshooting assistance, or any inquiries regarding your EPEVER WiFi Adapter, you may contact the authorized sales agent, Goland Century. They offer free technical support and have service centers in various regions.

Manufacturer: EPEVER
Authorized Sales Agent: Goland Century
For support, please refer to the contact information provided on your product packaging or the seller's official channels.

Manufacturer: HUIZHOU EPEVER TECHNOLOGY CO.,LTD

Manufacturer Address: No.103,Dongxing Rd,Chenjiang Street,
Zhongkai High-Tech Zone,Huizhou,China

Eanufacturer E-mail: info@epever.com

Batch Number/Serial Number: 06300076093LVDR4-00183

EC REP

Name: Kingsmead Service B.V.
Address: Zonnehof 36,2632 BE,
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Importer: Shenzhen Guang Lan Shi Ji Ke Ji You Xian Gong Si
Importer Address: longcheng street Ruyi Road No.112, Chuangshengda industrial
Rome 406, Longgang, Shenzhen, Guangdong 518116 CN
Importer E-mail: neal@szgoland.com

WARNING:
To avoid danger of suffocation, keep this plastic bag away from babies and children.
Do not use this bag in cribs, beds, carriages or play pens This bag is not a toy.

Image: Manufacturer and Importer details for the EPEVER WiFi Adapter.

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

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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

Answered questions about this manual

Why are my EPEVER Tracer 3210AN and Wi-Fi 2.4G RJ45 D adapter showing as offline in the Solar Guardian app even though the adapter is connected to Wi-Fi?

If your EPEVER WiFi 2.4G RJ45 D adapter shows as offline in the Solar Guardian app despite being connected to your router, please check the following troubleshooting steps:Verify Network Frequency: Ensure your home Wi-Fi...

Read full answer