PowMr WIFI-4.5K-6.5K

PowMr WiFi Module User Manual

For POW-HVM4.5K-24V and POW-HVM6.5K-48V Off-Grid Solar Hybrid Inverters

1. Introduction

This user manual provides detailed instructions for the installation, operation, and maintenance of the PowMr WiFi Module. This module enables remote monitoring of your compatible PowMr Off-Grid Solar Hybrid Inverters via a mobile application, offering convenience and real-time data access.
Please read this manual thoroughly before installation and operation to ensure proper functionality and safety.

2. Safety Information

Always observe the following safety precautions:

- Ensure the inverter is powered off before connecting or disconnecting the WiFi module.
- Do not expose the module to water or excessive humidity.
- Do not attempt to disassemble or repair the module yourself. Contact support if issues arise.
- Use only the provided cable for connection to the inverter.

3. Product Overview

The PowMr WiFi Module is a compact device designed to connect your compatible PowMr inverter to your home or office Wi-Fi network, allowing for remote monitoring and control through a dedicated mobile application.

3.1 Package Contents



Figure 3.1: PowMr WiFi Module and included RJ45 cable.



Figure 3.2: Complete package contents including the WiFi module, RJ45 cable, and a quick installation guide.

3.2 Module Components



Figure 3.3: Front view of the WiFi module showing the indicator lights for power, communication, and Wi-Fi status.



Figure 3.4: Bottom view of the WiFi module, highlighting the RJ45 communication port and the product QR code for identification.



Figure 3.5: Back view of the WiFi module, displaying the product serial number and QR code (PN: TR1001230700543).

4. Setup and Installation

Follow these steps to install and configure your PowMr WiFi Module.

4.1 Compatibility

This WiFi module is specifically designed for PowMr 4.5KW and 6.5KW Off-Grid Solar Inverters. It is compatible with the following inverter models:

- POW-HVM4.5K-24V
- POW-HVM6.5K-48V

Please verify your inverter model before proceeding with the installation.

4.2 Physical Connection

1. **Power Off Inverter:** Before connecting the WiFi module, ensure your PowMr inverter is completely powered off to prevent any damage.
2. **Connect RJ45 Cable:** Locate the RJ45 communication port on your inverter. Connect one end of the provided RJ45 cable to the WiFi module's RJ45 port and the other end to the corresponding port on your inverter. Ensure a secure connection.
3. **Power On Inverter:** Once the module is securely connected, power on your inverter. The WiFi module will receive power from the inverter.
4. **Observe Indicator Lights:**
    - The power indicator light (topmost) should illuminate steadily.
    - The communication indicator light (middle) should flash, indicating data exchange with the inverter.
    - The Wi-Fi indicator light (bottom) will flash as it attempts to connect to a network.

4.3 Mobile Application Setup

To monitor your inverter remotely, you need to download and install the official PowMr application on your mobile device.

1. **Download the App:**
   Scan the QR code found on the module or in the installation guide (refer to Figure 3.5 and Figure 3.2) to download the application. Alternatively, you can access the download directly via this link: http://img.hy-power.net/app/saas/saas.apk.
   Note: *Based on user feedback, the application may primarily be available for iOS devices (Apple App Store). Android users might experience limited or no availability on the Google Play Store. Please check compatibility with your device's operating system.*
2. **Install and Register:** Follow the on-screen instructions to install the application. You will likely need to register an account and log in.
3. **Connect to WiFi Network:** Within the app, follow the prompts to connect your WiFi module to your local Wi-Fi network. This typically involves selecting your Wi-Fi network and entering the password.
4. **Add Device:** Once connected to Wi-Fi, add your inverter as a device within the application. This may involve scanning a QR code on the module or manually entering its serial number (e.g., TR1001230700543).

5. Operating the WiFi Module

Once the WiFi module is successfully set up and connected to your network, you can begin monitoring your inverter.

- **Real-time Monitoring:** Use the mobile application to view real-time operational data of your inverter, such as input/output voltage, current, power, and battery status.
- **Historical Data:** The app may provide access to historical performance data, allowing you to track energy

production and consumption over time.

- **Alerts and Notifications:** Configure the app to receive alerts for system anomalies or warnings, ensuring you are promptly informed of any issues.

6. Maintenance

The PowMr WiFi Module requires minimal maintenance.

- **Cleaning:** Periodically wipe the module with a soft, dry cloth to remove dust. Do not use liquid cleaners.
- **Connection Check:** Ensure the RJ45 cable remains securely connected to both the module and the inverter.
- **Firmware Updates:** Check the mobile application periodically for any available firmware updates for the WiFi module. Follow the app's instructions for safe updating.

7. Troubleshooting

If you encounter issues with your PowMr WiFi Module, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Module not powering on (no indicator lights).	Loose connection to inverter, inverter not powered on, or module fault.	Ensure inverter is on. Check RJ45 cable connection. If problem persists, contact support.
Communication indicator not flashing.	No data exchange with inverter.	Verify inverter model compatibility. Re-seat the RJ45 cable. Restart the inverter.
Wi-Fi indicator flashing continuously or off.	Module not connected to Wi-Fi network or network issues.	Ensure your Wi-Fi router is on and within range. Re-enter Wi-Fi credentials in the app. Check router settings (e.g., 2.4GHz band).
Cannot find app on Google Play Store (Android).	App primarily available for iOS devices.	The manufacturer's app may have limited Android support. Check the provided download link or contact PowMr support for Android compatibility.
App not displaying inverter data.	Module not connected to inverter, app not configured correctly, or internet connectivity issues.	Confirm module is communicating with inverter (communication light flashing). Ensure module is connected to Wi-Fi. Verify device is added correctly in the app. Check your mobile device's internet connection.

8. Specifications

Key technical specifications for the PowMr WiFi Module:

- **Model Number:** WIFI-4.5K-6.5K
- **Hardware Interface:** 802.11 b/g/n
- **Manufacturer:** PowMr
- **Packaging Dimensions:** 15.5 x 9.3 x 4.5 cm

- **Weight:** 110 grams
- **Compatibility:** PowMr POW-HVM4.5K-24V and POW-HVM6.5K-48V Off-Grid Solar Hybrid Inverters

9. Warranty and Support

For warranty information and technical support, please contact PowMr directly through the platform where you purchased the product (e.g., Amazon). If you require a detailed PDF version of the installation manual in English, please reach out to PowMr customer service via Amazon.

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Example: How do I reset this device or fix this error?

Details

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