PowMr Wi-Fi Module

PowMr Wi-Fi Module User Manual

Model: Wi-Fi Module for POW-HVM4.5K-24V / POW-HVM6.5K-48V Hybrid Solar Inverters

Brand: PowMr

1. Introduction

This manual provides instructions for the installation, operation, and maintenance of the PowMr Wi-Fi Module. This module is designed exclusively for use with PowMr POW-HVM4.5K-24V and POW-HVM6.5K-48V hybrid solar inverters, enabling remote monitoring and data access.



Figure 1: PowMr Wi-Fi Module and its connecting cable.
This image displays the compact white Wi-Fi module alongside its grey RJ45 connecting cable, illustrating the complete product package.

2. Product Features

- **Compatibility:** Specifically designed for PowMr POW-HVM4.5K-24V and POW-HVM6.5K-48V hybrid solar inverters.
- **Easy Installation:** Features a plug-and-play design, eliminating the need for device disassembly.
- **Remote Monitoring:** Allows remote access to inverter data for real-time monitoring via a Wi-Fi connection.
- **Durable Construction:** Manufactured from high-quality ABS material for robust performance and extended lifespan.

3. Installation & Setup

Follow these steps to properly install and set up your PowMr Wi-Fi Module:

1. **Electrical Connection:**
    - Identify the correct interface code on the inverter's label according to your DTU (Data Transfer Unit) model.
    - Ensure the DTU's RJ-45 interface is securely connected to the inverter's COMM interface.
    - Once the inverter is powered on, the DTU power indicator (represented by a sun/alert icon) should remain steadily lit. The communication indicator (represented by a Wi-Fi signal icon) should flash, indicating active communication.
2. **Wi-Fi Router Connection & APP Setup:**
   To monitor your inverter remotely, you need to connect the module to your Wi-Fi network and install the monitoring application.
    - **For Android devices:** Scan the QR code provided in the installation guide or click this link to download and install the application: Download APP (Android).
    - **For iOS devices:** Search for "MY POWR" in the Apple App Store and install the application.



Figure 2: Wi-Fi Module, cable, and a portion of the installation guide showing connection details and APP download QR code. This image shows the Wi-Fi module and its cable next to a printed installation guide, highlighting the section for electrical connection and the QR code for the mobile application download.

4. Operation & Monitoring

Once the Wi-Fi module is successfully connected to your inverter and your home network, you can use the "MY POWR" application to monitor your inverter's performance remotely.

- Launch the "MY POWR" application on your smartphone or tablet.
- Follow the in-app instructions to register your device and link it to your account.
- Access real-time data, historical performance, and system status updates from your inverter anytime, anywhere.

LED Indicators

The Wi-Fi module features several LED indicators to provide status information:



Figure 3: Top view of the Wi-Fi Module showing its LED indicators.
This image provides a detailed top-down view of the Wi-Fi module, clearly showing the three LED indicators and their corresponding symbols.

Indicator Symbol	Description	Status

Indicator Symbol	Description	Status
☀ / ⚠ (Sun / Alert)	Power / System Status	**Solid ON:** Module is powered and operating normally. **Flashing:** Indicates a system alert or error.
(Wi-Fi Signal)	Communication Status	**Flashing:** Active communication with the inverter. **Solid ON:** Connected to Wi-Fi but no data communication. **OFF:** No Wi-Fi connection or communication.
↳ (USB/Data Flow)	Data Transfer Status	**Flashing:** Data is being transferred. **Solid ON:** Connected but no data transfer. **OFF:** No connection or data transfer.

5. Maintenance

The PowMr Wi-Fi Module is designed for durability and requires minimal maintenance. To ensure optimal performance and longevity:

- Keep the module in a clean, dry environment, away from direct sunlight and extreme temperatures.
- Periodically check the cable connections to ensure they are secure.
- Avoid exposing the module to water or excessive humidity.
- Do not attempt to open or repair the module yourself, as this will void the warranty.

6. Troubleshooting

If you encounter issues with your Wi-Fi module, refer to the following common troubleshooting steps:

- **Module Not Powering On:**
  - Ensure the inverter is powered on.
  - Verify the RJ-45 cable is securely connected to both the module and the inverter's COMM port.
- **No Communication (Wi-Fi Signal LED OFF):**
  - Check your Wi-Fi router's status and ensure it is operational.
  - Confirm the Wi-Fi module is within range of your router.
  - Re-check the Wi-Fi settings within the "MY POWR" application.
- **Data Not Updating (Data Transfer LED Solid ON or OFF):**
  - Ensure the communication indicator (Wi-Fi signal LED) is flashing, indicating active communication.
  - Verify your internet connection is stable.
  - Restart the inverter and the Wi-Fi module.
- **App Connection Issues:**
  - Ensure your smartphone/tablet has a stable internet connection.
  - Update the "MY POWR" application to the latest version.
  - Try reinstalling the application if issues persist.

7. Specifications

Attribute	Detail
Product Dimensions	4.72 x 3.54 x 1.57 inches
Item Weight	3.2 ounces
Hardware Interface	Ethernet (RJ45)
Color	White
Compatible Devices	PowMr POW-HVM4.5K-24V / POW-HVM6.5K-48V Hybrid Solar Inverters
Data Link Protocol	Ethernet
Manufacturer	PowMr

8. Support & Warranty

For technical support, warranty information, or further assistance, please visit the official PowMr store or contact their customer service.

Official PowMr Store: PowMr Amazon Store

Please retain your proof of purchase for any warranty claims.

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

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