

[Manuals.plus](#) /

› [PowMr](#) /

› PowMr WLAN Module User Manual

PowMr WIFI-VM

PowMr WLAN Module User Manual

Model: WIFI-VM

Brand: PowMr

INTRODUCTION

This user manual provides detailed instructions for the installation, operation, and maintenance of your PowMr WLAN Module. This module is designed to enable remote monitoring and control capabilities for compatible PowMr hybrid solar inverters, including models POW-HVM1.5H-12V, POW-HVM2.4H-24V, POW-HVM3.6M-24V, POW-HVM4.2M-24V, POW-HVM6.2M-48V, and POW-HVM10.2M.

Please read this manual thoroughly before using the device to ensure proper functionality and safety.

SAFETY INFORMATION

Always observe the following safety precautions:

- Ensure the inverter is powered off and disconnected from all power sources before installing or removing the WLAN module.
- Do not expose the module to water, excessive moisture, or extreme temperatures.
- Do not attempt to disassemble or repair the module yourself. Refer to qualified personnel for service.
- Keep the device away from children.
- Use only the cables and accessories provided or approved by PowMr.

PACKAGE CONTENTS

Verify that all items are present in your package:

- PowMr WLAN Module (WIFI-VM)
- Communication Cable (likely RS232 to RJ45 or similar, based on images)
- User Manual (this document)



Image: The PowMr WLAN Module with its integrated antenna and a grey communication cable, featuring an RS232 connector on one end and an RJ45 connector on the other.

PRODUCT OVERVIEW

The PowMr WLAN Module (Model: WIFI-VM) is designed to provide wireless connectivity for compatible PowMr hybrid solar inverters. It allows users to remotely monitor inverter data and status via a Wi-Fi connection, enhancing system management and convenience.



Image: A close-up view of the PowMr WLAN Module, showing its main body, integrated antenna, and the DB9 serial port connector. A label with QR codes and the identifier "PN QE621051734258" is visible on the module.

The module features a robust design for reliable operation and is equipped with an integrated antenna for stable wireless communication. The product identifier "PN QE621051734258" is located on the device label.



WIFI-VM

WiFi Module WiFi Port

Image: The PowMr WLAN Module displayed alongside the PowMr brand logo and text indicating "WIFI-VM WiFi Module WiFi Port".

SETUP AND INSTALLATION

Follow these steps to install and set up your PowMr WLAN Module:

1. **Prepare the Inverter:** Ensure your compatible PowMr hybrid inverter is powered off and disconnected from all AC and DC power sources. This is crucial for safety.
2. **Locate Communication Port:** Identify the communication port on your inverter. This is typically an RS232 or similar serial port. Refer to your inverter's manual for its exact location.
3. **Connect the Module:** Connect the provided communication cable to the WLAN module's port and then to the corresponding communication port on your inverter. Ensure a secure connection.
4. **Secure the Module:** The module may have mounting holes. If applicable, secure the module to a stable surface near the inverter using appropriate fasteners (not included) to prevent accidental disconnection or damage.
5. **Power On Inverter:** Once the module is securely connected, you may re-apply power to your inverter.

6. Initial Wi-Fi Configuration:

- Download the official PowMr monitoring application to your smartphone or tablet.
- Follow the in-app instructions to connect the WLAN module to your home or office Wi-Fi network. This typically involves scanning a QR code on the module or entering network credentials.
- Ensure your Wi-Fi network is 2.4GHz, as most IoT devices are not compatible with 5GHz networks.

OPERATING INSTRUCTIONS

Once the WLAN module is successfully connected to your Wi-Fi network and linked to your inverter, you can begin monitoring its performance remotely.

- **Remote Monitoring:** Use the PowMr monitoring application to view real-time data from your inverter, such as input voltage, output power, battery status, and operational mode.
- **Data Logging:** The application may provide historical data logging, allowing you to track performance trends over time.
- **Alerts and Notifications:** Configure the application to receive alerts for critical events or system status changes.

For detailed instructions on using the monitoring application, refer to the application's built-in help section or the PowMr official website.

MAINTENANCE

The PowMr WLAN Module requires minimal maintenance. Follow these guidelines to ensure its longevity:

- **Cleaning:** Gently wipe the module with a dry, soft cloth to remove dust. Do not use liquid cleaners or solvents.
- **Environment:** Ensure the module is kept in a dry, well-ventilated area, away from direct sunlight and extreme temperatures.
- **Firmware Updates:** Periodically check the PowMr monitoring application or website for any available firmware updates for the WLAN module. Keeping the firmware updated can improve performance and add new features.

TROUBLESHOOTING

If you encounter issues with your WLAN module, refer to the following common solutions:

Problem	Possible Cause / Solution
Module not connecting to Wi-Fi or going offline after registration.	This often occurs if an accidental "space" character is added to the Wi-Fi network name (SSID) during the connection process, especially when selecting from a list where auto-fill might add it. Solution: When entering or selecting your Wi-Fi network name in the application, carefully check for and remove any leading or trailing spaces. Ensure the SSID is entered precisely as it appears.
No data displayed in the monitoring application.	• Verify the WLAN module is securely connected to the inverter's communication port. • Ensure the inverter is powered on and operating correctly. • Check your internet connection and Wi-Fi signal strength at the module's location. • Restart both the inverter and the WLAN module (by temporarily disconnecting and reconnecting power to the inverter).

Problem	Possible Cause / Solution
Application shows "Device Offline".	• Confirm your home router is functioning and broadcasting Wi-Fi. • Check if the Wi-Fi password has been changed. If so, reconfigure the module's Wi-Fi settings via the app. • Ensure the module is within range of your Wi-Fi router.

If the problem persists, contact PowMr customer support for further assistance.

SPECIFICATIONS

Attribute	Value
Model Number	WIFI-VM
Manufacturer	PowMr
Compatible Inverters	POW-HVM1.5H-12V, POW-HVM2.4H-24V, POW-HVM3.6M-24V, POW-HVM4.2M-24V, POW-HVM6.2M-48V, POW-HVM10.2M Hybrid Inverters
Connectivity	Wi-Fi (2.4GHz)
Communication Interface	RS232 (Serial Port)
Package Dimensions	11.7 x 9.2 x 4 cm
Weight	130 g
ASIN	B09P8FVWDS
First Available Date	13 January 2025

WARRANTY AND SUPPORT

Warranty Information: PowMr products are covered by a limited warranty. Please refer to the warranty card included with your product or visit the official PowMr website for detailed warranty terms and conditions.

Customer Support: For technical assistance, troubleshooting, or warranty claims, please contact PowMr customer support. You can typically find contact information on the PowMr official website or through the retailer where you purchased the product.

Online Resources: For additional resources, FAQs, and software downloads, visit the official PowMr website: www.powmr.com

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