

## Hilitand VM PLUS-3.5KW-WIFI

# Hilitand Solar WiFi Inverter Module VM PLUS-3.5KW-WIFI User Manual

Model: VM PLUS-3.5KW-WIFI | Brand: Hilitand

## 1. PRODUCT OVERVIEW

The Hilitand Solar WiFi Inverter Module is an electronic component designed to enable remote monitoring and control of solar photovoltaic power generation grid-connected inverters. It serves as a communication interface, allowing users to manage their inverter systems through a dedicated mobile application.

### Key Features:

- **Remote Monitoring:** Connects to the inverter for comprehensive remote monitoring.
- **Wireless WiFi Module:** Enables remote control and monitoring via a mobile application.
- **RS232 Interface:** Provides a stable communication interface for external connections.
- **Durable Construction:** Made from ABS material for long service life and stable performance.

### What's in the Box:

- 1 x WiFi Module (Transmitter)
- 1 x Connection Cable
- 2 x Screws
- 1 x Rubber Drum
- 1 x User Manual



The Hililand Solar WiFi Inverter Module, designed for remote monitoring, shown with a security camera in the background, symbolizing its monitoring capabilities.

## 2. SETUP AND INSTALLATION

---

Follow these steps to properly install your Hililand Solar WiFi Inverter Module:

1. **Install the Antenna:** Carefully attach the antenna to the designated port on the WiFi module.
2. **Connect to Computer (Optional):** If required for initial setup or configuration, connect the upper computer cable terminal to the WiFi module.
3. **Connect to Inverter:** Use the provided connection cable to link the WiFi module to your solar inverter.
4. **Verify Indicators:** Confirm that all WiFi indicators on the module are normal. After a successful WiFi connection, the four indicator lights should remain steadily on.

## Instructions:

1. Install the antenna of the WI-FI module.
  2. Connect the upper computer cable terminal to the WI-FI module.
  3. Connect the connecting wire to the inverter.
  4. Confirm that all indicators of WiF are normal.
- (After the WiFi connection is successful, the four lights are always on as the connection is normal)



A visual guide for installing the Hilitand Solar WiFi Inverter Module, showing the module and its connection cable alongside step-by-step instructions for antenna installation and cable connection.



A detailed view of the antenna component of the Hilitand Solar WiFi Inverter Module, crucial for wireless communication.



A detailed shot of the RS232 communication interface on the Hilitand Solar WiFi Inverter Module, which facilitates data exchange with other devices.

### Installation Video Guide:



This video demonstrates the remote mobile phone monitoring capabilities of a WiFi module for solar inverters, showing the setup and functionality for accessing inverter data via a mobile application.

## 3. OPERATING INSTRUCTIONS

---

Once the WiFi module is successfully installed and connected to your inverter, you can begin remote monitoring and control:

- **Download the App:** Install the official Hilitand monitoring application on your mobile device (smartphone or tablet). Refer to the included user manual for QR codes or app store links.
- **Connect to WiFi:** Ensure your mobile device is connected to the same WiFi network as your inverter module, or follow the app's instructions for direct connection.
- **Monitor and Control:** Use the app to view real-time data from your solar inverter, adjust settings, and receive alerts. The RS232 communication interface ensures stable data transmission.

Access to the inverter for remote monitoring  
Remote control and monitoring through the app  
The interface for the inverter to communicate  
with the outside world



This image shows the Hilitand Solar WiFi Inverter Module with its connection cable, emphasizing its function for remote monitoring of inverters through an application.

## 4. MAINTENANCE

To ensure optimal performance and longevity of your Hilitand Solar WiFi Inverter Module, consider the following maintenance guidelines:

- **Keep Clean:** Periodically wipe the module with a soft, dry cloth to remove dust and debris. Avoid using harsh chemicals or abrasive cleaners.
- **Check Connections:** Regularly inspect all cable connections to ensure they are secure and free from corrosion or damage.
- **Software Updates:** Check for firmware or application updates regularly to benefit from improved features and security enhancements.
- **Environmental Conditions:** Ensure the module is operated within its specified environmental conditions (temperature, humidity) to prevent damage.

## 5. TROUBLESHOOTING

If you encounter issues with your Hilitand Solar WiFi Inverter Module, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
---------	----------------	----------

Problem	Possible Cause	Solution
Module does not power up / No indicator lights	Loose connection, power supply issue, faulty module.	Check all cable connections. Ensure the inverter is powered on. If issues persist, contact support.
Cannot connect to WiFi / App shows offline	Incorrect WiFi password, module out of range, network interference, module already registered to another account.	Verify WiFi credentials. Move module closer to router. Restart router and module. If "already registered" error occurs, contact support for account reset.
Inverter data not updating in app	Poor network connection, communication error with inverter, app issue.	Check WiFi signal strength. Ensure inverter is functioning correctly. Restart the app. Verify RS232 cable connection.

If these steps do not resolve the issue, please contact Hilitand customer support for further assistance.

## 6. SPECIFICATIONS

Detailed technical specifications for the Hilitand Solar WiFi Inverter Module:

Specification	Detail
Item Type	Solar Inverters Module
Material	ABS
Communication Interface	RS232
Applicable Models	SM-3.2KW-24V, SM-3.2KW-48V, SM-5.2KW-48V, MPS-VI1-3500W-24V, MPS-VI1-5500W-48V, VM PLUS-3.5KW-WIFI, VM PLUS-5.5KW-WIFI, VM-3KW (must be equipped with), VM-5KW (must be equipped with), and others
Package Dimensions	4.61 x 3.66 x 1.54 inches
Item Weight	4.6 ounces
ASIN	B09DTBNP9V
Item Model Number	VM PLUS-3.5KW-WIFI
Manufacturer	Hilitand
Brand	Hilitand
Recommended Uses	Home, Recreational Vehicle
Power Source	Solar Powered

## 7. WARRANTY AND SUPPORT

---

For warranty information and customer support, please refer to the documentation included with your product or visit the official Hilitand website. Our support team is available to assist with any questions or issues you may encounter.

**Contact Information:** Please refer to the manufacturer's official website or the product packaging for the most up-to-date contact details for customer service and technical support.