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PowMr POW-HVM3.5K-24V+Wifi

PowMr 3500W Hybrid Inverter User Manual

Model: **POW-HVM3.5K-24V+Wifi** | Brand: **PowMr**

1. Product Overview

The PowMr 3500W Hybrid Inverter is a multi-functional device combining the functions of an inverter, solar charger, and battery charger to offer uninterruptible power support in a portable size. Its comprehensive LCD display allows user-configurable and easy-accessible button operation such as battery charging current, AC/solar charger priority, and acceptable input voltage based on different applications.



Figure 1: Front panel of the PowMr 3500W Hybrid Inverter. It features a central circular control panel with an LCD display, surrounded by four buttons: ESC, UP, DOWN, and ENTER. Indicator lights for INV/AC, CHG, and FAULT are visible above the display. A 'CAUTION ELECTRIC SHOCK HAZARD ENERGY HAZARDOUS' label is located on the lower left. The brand 'PowMr' is prominently displayed, and 'SOLAR INVERTER CHARGER' is written at the bottom.

2. Safety Precautions

Please read all instructions and cautionary markings on the unit, the batteries, and all appropriate sections of this manual before using the unit. This inverter contains high voltage. Only qualified personnel should perform installation and maintenance.

- Ensure proper grounding.

- Do not disassemble the unit.
- Keep away from flammable materials.
- Ensure adequate ventilation.
- Use appropriate personal protective equipment (PPE).

3. Setup and Installation

3.1 Unpacking and Inspection

Before installation, please inspect the unit. Be sure that nothing inside the package is damaged. The package should include the inverter unit, user manual, and communication cable (WiFi module).

3.2 Mounting the Inverter

Choose a suitable mounting location. The inverter should be mounted vertically on a wall or other sturdy surface. Ensure sufficient clearance around the unit for proper heat dissipation.

- Mount in a dry, cool, and well-ventilated area.
- Avoid direct sunlight and heat sources.
- Ensure the mounting surface can support the inverter's weight.

3.3 Wiring Connections

All wiring must be performed by a qualified electrician. Follow local electrical codes and regulations.

1. **Battery Connection:** Connect the battery bank to the inverter's battery terminals. Ensure correct polarity (+ to + and - to -). Use appropriate cable gauges.
2. **AC Input Connection:** Connect the AC utility grid or generator to the AC input terminals.
3. **AC Output Connection:** Connect your loads to the AC output terminals.
4. **PV Input Connection:** Connect the solar panel array to the PV input terminals. Observe correct polarity and voltage limits.
5. **Grounding:** Connect the inverter's chassis ground terminal to a reliable earth ground.

Note: *Always ensure all power sources are disconnected before making any wiring connections.*

3.4 Initial Power-Up

Once all connections are secure, follow these steps to power up the inverter:

1. Turn on the battery breaker.
2. Turn on the solar array breaker (if applicable).
3. Turn on the AC input breaker (if applicable).
4. Press and hold the "ENTER" button on the inverter for a few seconds to power it on.
5. Observe the display for initial status and any error messages.

4. Operating Instructions

4.1 Display and Button Functions

The inverter features an LCD display and four buttons for operation and configuration:

- **LCD Display:** Shows system status, operational parameters, and error codes.

- **ESC Button:** Exits current menu or returns to the previous screen.
- **UP Button:** Navigates up through menu options or increases values.
- **DOWN Button:** Navigates down through menu options or decreases values.
- **ENTER Button:** Confirms selection or enters a submenu.

Indicator lights:

- **INV/AC:** Indicates inverter or AC output status.
- **CHG:** Indicates charging status (solar or AC).
- **FAULT:** Indicates a system fault or error.

4.2 Basic Operation Modes

The inverter typically operates in one of the following modes, depending on configuration and power availability:

- **Utility Mode:** AC input powers the loads and charges the battery.
- **Battery Mode:** Battery powers the loads when AC input is unavailable.
- **PV Mode:** Solar power charges the battery and/or powers the loads.

4.3 System Settings Configuration

Access the settings menu by pressing the ENTER button. Use UP/DOWN to navigate and ENTER to select. Common settings include:

- Output voltage and frequency.
- Battery type (e.g., Lead-Acid, Lithium).
- Maximum charging current.
- AC input range.
- Solar charger priority.

5. Maintenance

Regular maintenance ensures optimal performance and longevity of your inverter.

- **Cleaning:** Periodically clean the inverter's exterior with a dry cloth. Ensure ventilation openings are free from dust and debris.
- **Connection Checks:** Annually inspect all wiring connections for tightness and corrosion.
- **Battery Maintenance:** Follow the battery manufacturer's recommendations for maintenance. For lead-acid batteries, check electrolyte levels if applicable.
- **Firmware Updates:** Check the manufacturer's website for any available firmware updates for your model.

6. Troubleshooting

This section provides solutions to common issues. Refer to the LCD display for error codes.

Problem	Possible Cause	Solution
Inverter not turning on	No battery connection; Battery voltage too low; Power button not pressed.	Check battery connections; Charge battery; Press and hold ENTER button.
No AC output	Overload; Short circuit; Inverter fault; AC input unavailable.	Reduce load; Check for short circuits; Check fault code on display; Verify AC input.

Problem	Possible Cause	Solution
Battery not charging	No AC input; No PV input; PV voltage too low; Charger settings incorrect.	Check AC input; Check PV connections; Verify PV voltage; Adjust charger settings.
Fault indicator (FAULT) is on	Internal fault; Over-temperature; Over-voltage; Under-voltage.	Note the error code on the display and refer to the full manual for specific solutions. Contact support if persistent.

7. Specifications

Key technical specifications for the PowMr 3500W Hybrid Inverter (Model: POW-HVM3.5K-24V+Wifi):

Feature	Value
Brand	PowMr
Model Name	POW-HVM3.5K-24V
Model Number	POW-HVM3.5K-24V+Wifi
Output Power	3500 Watts
Input Voltage	24 Volts (DC)
Power Source	Solar Powered
ASIN	B0DT9GTXJZ
First Available	January 17, 2025

8. Warranty Information

This product comes with a manufacturer's warranty. Please refer to the warranty card included with your product or visit the official PowMr website for detailed warranty terms and conditions. Keep your purchase receipt as proof of purchase for warranty claims.

9. Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact PowMr customer support. Contact information can typically be found on the official PowMr website or on the product packaging.
Website: Visit the PowMr Store on Amazon

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