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> OFAPLFKUR 6.5KW 48V Hybrid Solar Inverter User Manual

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Model: 6.5KW 48V | Brand: OFAPLFKUR

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your OFAPLFKUR 6.5KW 48V Hybrid Solar Inverter. Please read this manual thoroughly before installation and use, and retain it for future reference. This hybrid inverter is designed to convert DC power from solar panels or batteries into AC power for household or commercial use, featuring a pure sine wave output and an integrated MPPT solar charge controller.

2. SAFETY INSTRUCTIONS

WARNING: Risk of electric shock. Do not attempt to service this unit yourself.

- Ensure all wiring is performed by qualified personnel.
- Disconnect all power sources before performing any maintenance or wiring.
- Do not expose the inverter to rain, snow, or liquids.
- Install in a well-ventilated area, away from flammable materials.
- Ensure proper grounding of the unit.

3. PRODUCT OVERVIEW

The OFAPLFKUR 6.5KW 48V Hybrid Solar Inverter integrates a solar charge controller, inverter, and battery charger functions into one unit. It is equipped with a built-in WiFi module for remote monitoring.



Figure 3.1: Front view of the OFAPLFKUR 6.5KW 48V Hybrid Solar Inverter, showing the display screen and control buttons.



Figure 3.2: Angled view of the inverter, highlighting the ventilation grilles and various connection ports on the side.



Figure 3.3: Multiple views of the inverter, including a detailed look at the rear connection panel with AC input/output, battery terminals, and PV input.

4. SETUP AND INSTALLATION

4.1 Unpacking and Inspection

Upon receiving the inverter, carefully unpack it and inspect for any shipping damage. Report any damage to your dealer immediately.

4.2 Mounting the Inverter

- Choose a suitable location: indoors, dry, well-ventilated, and protected from direct sunlight.
- Ensure sufficient clearance around the unit for proper heat dissipation (at least 20 cm on all sides).
- Mount the inverter vertically on a sturdy wall using appropriate fasteners.

4.3 Wiring Connections

All wiring must comply with local electrical codes.

- Battery Connection:** Connect the battery bank to the inverter's battery terminals (BAT+ and BAT-). Ensure correct polarity.
- PV Array Connection:** Connect the solar panel array to the PV input terminals (PV+ and PV-). Verify that the PV open circuit voltage does not exceed 500Vdc.
- AC Input Connection:** Connect the AC utility grid to the AC input terminals.
- AC Output Connection:** Connect your loads to the AC output terminals.
- Grounding:** Connect the inverter's ground terminal to a reliable earth ground.

CAUTION: Double-check all connections before powering on the unit to prevent damage.

5. OPERATING INSTRUCTIONS

5.1 Powering On the Inverter

- Ensure all wiring is secure and correct.
- Turn on the battery breaker.
- Turn on the PV array breaker (if applicable).
- Turn on the AC input breaker (if applicable).
- Press and hold the power button on the inverter for a few seconds until the display illuminates.

5.2 Display and Control Panel

The front panel features an LCD display and several buttons for monitoring and configuration. Refer to the detailed user interface section in the full manual for specific menu navigation.

5.3 WiFi Monitoring

The inverter includes a built-in WiFi module for remote monitoring. Follow the instructions in the dedicated WiFi setup guide (usually provided separately or accessible via QR code) to connect the inverter to your local network and access monitoring features via a smartphone app or web portal.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your inverter.

- Cleaning:** Periodically clean the inverter's exterior and ventilation openings to prevent dust accumulation. Use a dry, soft cloth.
- Connections:** Annually check all electrical connections for tightness and signs of corrosion.
- Environment:** Ensure the installation environment remains within specified temperature and humidity ranges.
- Battery Health:** Monitor battery voltage and health according to battery manufacturer guidelines.

WARNING: Disconnect all power sources before performing any cleaning or inspection.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Inverter not turning on	No battery power; Battery voltage too low; Loose connections	Check battery connections and charge level; Verify all breakers are ON.
No AC output	Overload; Short circuit; AC output breaker OFF	Reduce load; Check for short circuits; Turn on AC output breaker.
PV charging not working	PV array disconnected; Insufficient sunlight; PV voltage too low/high	Check PV connections; Ensure adequate sunlight; Verify PV voltage is within range (60-450Vdc).
WiFi connection issues	Incorrect network settings; Weak signal; Router issues	Reconfigure WiFi settings; Move inverter closer to router; Restart router.

For issues not listed here, please contact customer support.

8. SPECIFICATIONS

Feature	Detail
Model	6.5KW 48V
Output Power	6.5KW
Output Current	27A
Output Type	SINGLE (Pure Sine Wave)
Output Frequency	50Hz-60Hz (Auto Sensing)
Battery Voltage	48V
Solar Charger Type	MPPT
Max PV Input Power	9000W
Max PV Input Current	27A
MPPT Operating Voltage Range	60 - 450 VDC
PV Start-up Voltage	60 VDC
Max PV Open Circuit Voltage	500 VDC
Max PV Charge Current	120A
Dimensions (L*W*H)	410 x 336 x 110 mm
Weight	8.4 kg
Connectivity	Built-in WiFi

9. WARRANTY AND SUPPORT

This OFAPLFKUR product is typically covered by a manufacturer's warranty. Please refer to your purchase documentation

or contact your retailer for specific warranty terms and conditions. For technical support, troubleshooting assistance beyond this manual, or warranty claims, please contact the OFAPLFKUR customer service department or your authorized dealer.

Protection plans may be available for extended coverage. For details, refer to the options provided at the time of purchase or consult your retailer.

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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