

OFAPLFKUR OFAPLFKUR

OFAPLFKUR 6.2KW Hybrid Solar Inverter User Manual

Model: OFAPLFKUR

1. INTRODUCTION

Thank you for choosing the OFAPLFKUR 6.2KW Hybrid Solar Inverter. This device is a pure sine wave inverter designed for reliable power conversion in solar energy systems. It integrates a 6200W inverter, MPPT solar charger, and battery charger functions to offer uninterrupted power support. This manual provides essential information for the safe installation, operation, and maintenance of your inverter. Please read it thoroughly before installation and keep it for future reference.

2. SAFETY INSTRUCTIONS

Observe the following safety precautions to prevent injury and damage to the inverter:

- Installation must be performed by qualified personnel in accordance with all local electrical codes.
- Ensure the inverter is installed in a well-ventilated area, away from flammable materials and direct sunlight.
- Do not disassemble the inverter. There are no user-serviceable parts inside.
- Before any wiring or maintenance, ensure all power sources (AC, DC, battery) are disconnected.
- Use appropriate personal protective equipment (PPE) during installation and maintenance.
- Verify correct polarity when connecting batteries and solar panels.
- Keep children away from the inverter and its wiring.

3. PRODUCT OVERVIEW

The OFAPLFKUR 6.2KW Hybrid Solar Inverter is designed for efficient energy management. It features a clear display for monitoring system status and various connection ports for solar input, battery, and AC loads.



Figure 3.1: Front view of the OFAPLFKUR 6.2KW Hybrid Solar Inverter, showing the integrated display panel and status indicators.

Product Display⁰⁸



Figure 3.2: Various angles of the inverter, illustrating its compact design and the placement of connection terminals on the underside and sides.

4. SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of your inverter. Consult a qualified electrician if you are unsure about any steps.

1. **Mounting:** Select a suitable vertical surface for mounting. Ensure adequate clearance around the inverter for ventilation. Use appropriate mounting hardware to secure the unit firmly.
2. **Battery Connection:** Connect the battery bank to the inverter's battery terminals. Ensure correct polarity (positive to positive, negative to negative). Use appropriately sized cables and fuses.
3. **Solar PV Connection:** Connect the solar panel array to the PV input terminals. Verify the PV input voltage and current are within the inverter's specifications. Observe correct polarity.
4. **AC Input/Output Connection:** Connect the AC grid input (if applicable) and AC load output to the designated terminals. Ensure proper grounding.
5. **Initial Power-Up:** Once all connections are secure and verified, switch on the battery breaker, then the solar PV breaker,

and finally the AC input breaker (if connected). The inverter will initiate its startup sequence.

5. OPERATING INSTRUCTIONS

After successful installation, the inverter will begin operation. The integrated LCD display provides real-time information about the system status.

- **Display Navigation:** Use the buttons below the LCD screen to navigate through various display menus, showing input voltage, output power, battery status, and fault codes.
- **Operating Modes:** The inverter typically supports various operating modes (e.g., Grid-Tie with Battery Backup, Off-Grid, Battery Priority). Refer to the on-screen menu for mode selection and configuration.
- **Monitoring:** Regularly monitor the inverter's display for any warnings or error messages.
- **Shutdown Procedure:** To safely shut down the system, first disconnect the AC output, then the AC input, followed by the solar PV input, and finally the battery bank.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your inverter.

- **Cleaning:** Keep the inverter's exterior clean and free from dust. Ensure ventilation openings are not obstructed. Use a dry cloth for cleaning.
- **Connections:** Periodically check all electrical connections for tightness and signs of corrosion. Tighten any loose connections.
- **Environment:** Ensure the operating environment remains within specified temperature and humidity ranges.
- **Battery Health:** If using lead-acid batteries, check electrolyte levels and terminal conditions as per battery manufacturer guidelines.

7. TROUBLESHOOTING

This section provides solutions for common issues. For problems not listed here, contact technical support.

Problem	Possible Cause	Solution
Inverter not powering on	No battery connection; Battery voltage too low; DC breaker off	Check battery connections; Charge battery; Turn on DC breaker
No AC output	AC output breaker off; Overload; Inverter fault	Turn on AC breaker; Reduce load; Check display for fault codes
Low solar charging	Shaded panels; Dirty panels; PV connection issue	Clear shading; Clean panels; Check PV wiring and polarity
Error code displayed	Internal fault; Over-temperature; Over-voltage/current	Refer to the inverter's display for specific error code meaning and recommended action. Ensure proper ventilation.

8. SPECIFICATIONS

Key technical specifications for the OFAPLFKUR 6.2KW Hybrid Solar Inverter:

Feature	Specification
Rated Power	6200W
Nominal Output Voltage	220/230/240VAC
Battery Voltage	48V
Solar Charger Type	MPPT
Maximum PV Input Power	6500W
MPPT Voltage Range	60-450VDC
Maximum Solar Charging Current	120A
Maximum AC Charging Current	100A
Output Frequency	50/60HZ
Dimensions (L x W x H)	442 x 358 x 116 mm (approx.)
Net Weight	8.8 KG
Item Model Number	OFAPLFKUR

Product Specifications



Net Weight: 8.9kg
Dimension: 442x358x116mm

Figure 8.1: Physical dimensions of the inverter, showing approximate measurements for installation planning.

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided at the time of purchase or contact your seller directly. Warranty terms and conditions may vary. For technical support or service inquiries, please reach out to the manufacturer or authorized service center using the contact details provided with your product.

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.

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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.

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