

OFAPLFKUR ECGSOLAX 2400W 24V 110-120V

OFAPLFKUR ECGSOLAX 2400W 24V 110-120V Hybrid Solar Inverter User Manual

Model: ECGSOLAX 2400W 24V 110-120V

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation of your OFAPLFKUR ECGSOLAX 2400W 24V 110-120V Hybrid Solar Inverter. Please read this manual thoroughly before installation and use, and retain it for future reference. This inverter is designed to convert DC power from solar panels or batteries into AC power for various applications, functioning as an off-grid solar inverter with integrated charging capabilities.

2. IMPORTANT SAFETY INSTRUCTIONS

WARNING: This inverter generates high voltages. Improper installation or use can result in serious injury or death. Always follow safety precautions.

- Installation must be performed by qualified personnel.
- Do not disassemble the inverter. There are no user-serviceable parts inside.
- Ensure proper grounding.
- Keep away from flammable materials and moisture.
- Disconnect all power sources before performing any maintenance or wiring.
- Observe all local electrical codes and regulations.



CAUTION: ELECTRIC SHOCK HAZARD. ENERGY HAZARDOUS. This symbol indicates a potential risk of electric shock. Always exercise extreme caution when working with this device.

3. PRODUCT OVERVIEW

The ECGSOLAX Hybrid Solar Inverter integrates a solar charge controller, inverter, and battery charger functions to offer

uninterruptible power support. The front panel features an LCD display and control buttons for system monitoring and configuration.

3.1 Front Panel Display and Controls



Image: Front view of the ECGSOLAX Hybrid Solar Inverter, highlighting the LCD screen and control buttons. The screen displays various operational parameters and status icons.

- **LCD Display:** Shows real-time system status, input/output voltages, battery level, load percentage, and fault codes. The display includes icons for AC input, inverter operation, charging status, and fault indicators.
- **Buttons:**
 - **ESC:** Escape/Exit button.
 - **UP:** Navigate up or increase value.
 - **DOWN:** Navigate down or decrease value.
 - **ENTER:** Confirm selection or enter menu.
- **Status Indicators:**
 - **AC/INV:** Indicates AC input or inverter operation.
 - **CHG:** Indicates charging status.
 - **FAULT:** Indicates a system fault or error.

4. INSTALLATION AND SETUP

Before beginning installation, ensure all components are present and undamaged. Refer to the packing list for verification.

4.1 Unpacking and Inspection

- Carefully remove the inverter from its packaging.
- Inspect for any physical damage during transit. Contact your supplier immediately if any damage is found.
- Verify that all accessories are included (e.g., user manual, communication cables).

4.2 Mounting the Inverter

- Choose a suitable mounting location:
 - Indoors, protected from direct sunlight, rain, and dust.
 - Well-ventilated area to ensure proper heat dissipation.
 - Vertical mounting on a solid surface.
 - Maintain adequate clearance around the inverter for airflow (at least 20 cm on all sides).
- Use appropriate screws and anchors for the mounting surface.

4.3 Wiring Connections

WARNING: All wiring must comply with local electrical codes. Ensure all power sources are disconnected before making any connections.

1. **Battery Connection:** Connect the battery bank (24V DC) to the inverter's battery terminals. Ensure correct polarity (+ to + and - to -). Use appropriately sized cables and fuses.
2. **PV Array Connection:** Connect the solar panel array to the PV input terminals. Observe maximum PV input voltage (80VDC) and current ratings. Ensure correct polarity.
3. **AC Input Connection:** Connect the AC utility grid (if applicable) to the AC input terminals.
4. **AC Output Connection:** Connect your AC loads to the AC output terminals.
5. **Grounding:** Connect the inverter's ground terminal to a reliable earth ground.

Consult the detailed wiring diagrams provided in the full user manual for specific terminal locations and recommended cable gauges.

5. OPERATION

Once installed and wired correctly, you can power on your inverter and configure its settings.

5.1 Powering On/Off

- **To Power On:**
 1. Ensure all DC and AC breakers are closed.
 2. Switch on the battery breaker.
 3. Switch on the AC input breaker (if connected).
 4. Switch on the inverter's power switch. The LCD will illuminate.
- **To Power Off:**
 1. Disconnect all AC loads from the inverter.
 2. Switch off the inverter's power switch.
 3. Switch off the AC input breaker.
 4. Switch off the battery breaker.
 5. Disconnect the PV array (if applicable).

5.2 LCD Display and Settings

Use the ESC, UP, DOWN, and ENTER buttons to navigate through the LCD menu and adjust settings. Common settings include output voltage, charging current, battery type, and operating mode (e.g., Solar First, Utility First, Battery First). Refer to the detailed menu structure in the comprehensive manual for a complete list of settings and their functions.

6. 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.
- **Connections:** Annually check all electrical connections for tightness and corrosion. Re-tighten if necessary.
- **Battery Inspection:** If using lead-acid batteries, check electrolyte levels and terminal condition regularly.
- **Environment:** Ensure the operating environment remains within specified temperature and humidity ranges.

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

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
Inverter not turning on	No battery connection; Battery voltage too low; Power switch off; Blown fuse.	Check battery connections; Charge battery; Turn on power switch; Replace fuse.

Problem	Possible Cause	Solution
No AC output	Overload; Short circuit; Inverter fault; Battery low.	Reduce load; Check for short circuits; Check fault codes on LCD; Charge battery.
Battery not charging	PV input too low/disconnected; AC input disconnected; Charger fault.	Check PV connections and sunlight; Check AC input; Consult support if fault persists.
Fault indicator (FAULT) on	Internal fault; Over-temperature; Overload; Battery over/under voltage.	Check LCD for specific fault code; Allow inverter to cool; Reduce load; Check battery voltage.

For complex issues or persistent faults, contact customer support.

8. SPECIFICATIONS

Key technical specifications for the ECGSOLAX 2400W 24V 110-120V Hybrid Solar Inverter.

Feature	Specification
Model	ECGSOLAX 2400W 24V 110-120V
Rated Power	2400W / 3000VA
Battery Voltage	24V DC
AC Output Voltage	110-120V AC
Output Frequency	50/60Hz (Auto Sensing)
Max. PV Array Open Circuit Voltage	80VDC
Power Source	Battery Powered
Weight	8kg (approximate)

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact your point of purchase or the manufacturer directly. Keep your purchase receipt and product serial number handy for faster service.

Manufacturer: OFAPLFKUR

Please refer to the official OFAPLFKUR website or the warranty card included with your product for detailed warranty terms and conditions.

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