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Green Cell INVGC12P500LCD

Green Cell INVGC12P500LCD 12V 500W Pure Sine Wave Power Inverter User Manual

Model: INVGC12P500LCD

1. Introduction

Thank you for choosing the Green Cell INVGC12P500LCD Pure Sine Wave Power Inverter. This device converts 12V DC power from a battery into 230V AC power, suitable for powering various electronic devices. It features a pure sine wave output, intelligent protection systems, and an LCD display for monitoring. This manual provides essential information for the safe and efficient operation, installation, and maintenance of your inverter.

2. Safety Instructions

Please read and understand all safety instructions before operating the inverter. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Ventilation:** Ensure adequate ventilation around the inverter. Do not block ventilation openings.
- **Environment:** Install the inverter in a dry, cool, and well-ventilated area, away from direct sunlight, heat sources, flammable materials, and moisture.
- **Connections:** Ensure all DC input and AC output connections are secure and correctly polarized. Loose connections can cause overheating.
- **Grounding:** The inverter must be properly grounded.
- **Load:** Do not exceed the inverter's rated continuous power output (500W) or surge power (1000W).
- **Children:** Keep the inverter out of reach of children.
- **Maintenance:** Do not attempt to open or service the inverter yourself. Refer all servicing to qualified personnel.
- **Protection Features:** The inverter includes intelligent protection against short circuit, undervoltage, overvoltage, overload, overheating, and reverse polarity.

3. Package Contents

Verify that all items are present in the package:

- Green Cell Pure Sine Wave Power Inverter

- User Manual
- Cables for connecting the inverter to the battery
- Spare fuses



Image: Contents of the Green Cell Power Inverter package, showing the inverter unit, battery connection cables, user manual, and spare fuses.

4. Product Overview

The Green Cell INVGC12P500LCD is a robust power inverter designed for reliable power conversion. It features a pure sine wave output, making it suitable for sensitive electronics, and an integrated LCD display for real-time monitoring of operational parameters.



Image: Top view of the Green Cell 12V 500W Pure Sine Wave Power Inverter, highlighting the LCD display and power ratings.



Image: Front and rear views of the Green Cell Power Inverter, illustrating the AC output socket, USB port, power switch, DC input terminals, and cooling fan.

4.1 Front Panel

The front panel provides the AC output, USB charging port, and the main power switch.

- **AC Output Socket:** Standard 230V AC outlet for connecting appliances.
- **USB QC3.0 Port:** For charging compatible USB devices.
- **Power Switch:** ON/OFF control for the inverter.
- **Power/Fault Indicators:** LEDs to show operational status or fault conditions.



Image: Detailed view of the inverter's front panel, showing the 230V AC socket, QC3.0 USB port, ON/OFF switch, and power/fault indicator lights.

4.2 Rear Panel

The rear panel features the DC input terminals and the cooling fan.

- **DC Input Terminals:** Red (+) and Black (-) terminals for connecting to a 12V battery.
- **Cooling Fan:** Automatically activates to dissipate heat and maintain optimal operating temperature.



Image: Close-up of the inverter's cooling fan, which provides active cooling for stable operation.

4.3 LCD Display

The integrated LCD display provides real-time information about the inverter's status and connected load.

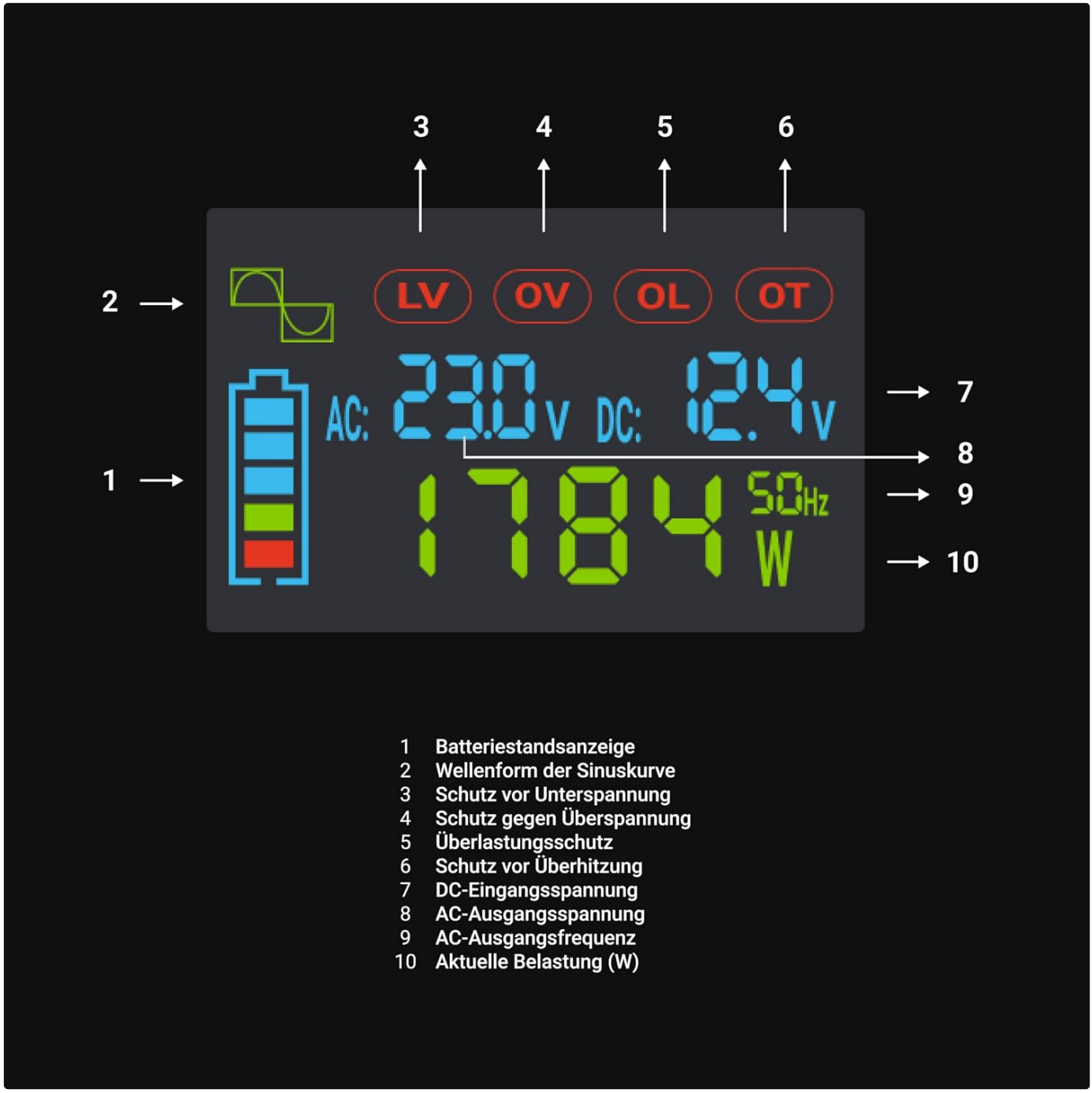


Image: Detailed view of the LCD display, indicating:

1. Battery level indicator
2. Sine wave form indicator
3. Undervoltage protection (LV)
4. Overvoltage protection (OV)
5. Overload protection (OL)
6. Overheating protection (OT)
7. DC input voltage
8. AC output voltage
9. AC output frequency
10. Current load (W)



Image: The inverter features intelligent protection against short circuit, undervoltage, overvoltage, overload, overheating, and reverse polarity (DC).



Image: The inverter incorporates effective passive cooling and intelligent active cooling for stable and continuous operation.

5. Setup

Follow these steps to set up your Green Cell Power Inverter:

1. **Placement:** Choose a location that is dry, cool, and well-ventilated. Ensure there is sufficient space around the inverter for airflow, especially around the cooling fan.
2. **Battery Connection:**
    - Connect the red battery cable to the positive (+) terminal of your 12V battery.
    - Connect the other end of the red cable to the red (+) DC input terminal on the inverter.
    - Connect the black battery cable to the negative (-) terminal of your 12V battery.
    - Connect the other end of the black cable to the black (-) DC input terminal on the inverter.
    - Ensure all connections are tight and secure to prevent arcing or overheating.
3. **Grounding:** Connect the inverter's grounding terminal (if present) to a proper earth ground.

6. Operating Instructions

To operate your Green Cell Power Inverter:

1. **Power On:** After connecting the inverter to the battery, press the ON/OFF switch on the front panel to turn on the inverter. The LCD display will illuminate, showing the DC input voltage and other parameters.
2. **Connect Devices:** Plug your AC appliances into the 230V AC output socket. For USB charging, connect your device to the USB QC3.0 port.
3. **Monitor Load:** Observe the LCD display to monitor the current load (W), AC output voltage, and battery level. Ensure the total power consumption of your devices does not exceed the inverter's rated output (500W continuous).
4. **Power Off:** When you are finished using the inverter, first disconnect all AC appliances and USB devices. Then, press the ON/OFF switch to turn off the inverter.

7. Maintenance

Regular maintenance ensures the longevity and optimal performance of your inverter.

- **Cleaning:** Periodically clean the exterior of the inverter with a dry, soft cloth. Ensure ventilation openings are free from dust and debris. Do not use liquid cleaners.
- **Connections:** Regularly check all electrical connections (battery terminals, DC input) to ensure they are tight and free from corrosion.
- **Fuse Replacement:** If a fuse blows, disconnect the inverter from the battery and replace the fuse with a spare fuse of the same rating. Refer to the user manual for fuse location and type.
- **Storage:** If storing the inverter for an extended period, disconnect it from the battery and store it in a cool, dry place.

8. Troubleshooting

If you encounter issues with your inverter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power output / Inverter not turning on	Loose battery connections, low battery voltage, blown fuse, inverter switch off.	Check battery connections, charge battery, replace fuse, ensure inverter is switched ON.
Inverter shuts down (Fault indicator on LCD)	Overload, overheating, undervoltage, overvoltage, short circuit.	Reduce load, ensure proper ventilation, check battery voltage, disconnect faulty appliance. Allow inverter to cool down.
AC appliance not working	Appliance faulty, power consumption too high, inverter fault.	Test appliance with another power source, check total load, refer to inverter shutdown solutions.
Fan running constantly or loudly	High load, high ambient temperature, blocked ventilation.	This is normal under high load. Ensure adequate ventilation and clear any obstructions.

If the problem persists after attempting these solutions, please contact Green Cell customer support.

9. Specifications

Key technical specifications for the Green Cell INVGC12P500LCD Power Inverter:

Feature	Specification
Model Number	INVGC12P500LCD
Input Voltage	12V DC
Output Voltage	230V AC
Continuous Power	500W
Surge Power	1000W
Waveform	Pure Sine Wave
Display	LCD
Protection Features	Short circuit, undervoltage, overvoltage, overload, overheating, reverse polarity
Item Weight	1.98 pounds (0.9 kg)
Package Dimensions	11.34 x 5.87 x 2.87 inches (28.8 x 14.9 x 7.3 cm)
Recommended Uses	Sensitive electronics for power and applications in vehicles or off-grid positions

10. Warranty and Support

Green Cell products are designed for reliability and performance. This product comes with a manufacturer's warranty against defects in materials and workmanship. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Green Cell website.

If you require technical assistance, troubleshooting, or have questions regarding your inverter, please contact Green Cell customer support through their official channels. Please have your model number (INVGC12P500LCD) and purchase information ready when contacting support.

Ask a question about this manual

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Question

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Details

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