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› Green Cell 3000W/6000W 24V to 230V Pure Sine Wave Power Inverter User Manual

Green Cell Green Cell PRO

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Model: Green Cell PRO

INTRODUCTION

Thank you for choosing the Green Cell 3000W/6000W 24V to 230V Pure Sine Wave Power Inverter. This device converts 24V DC battery power into 230V AC household power, allowing you to operate various electrical appliances from your vehicle or solar system. This manual provides essential information for safe and efficient operation, installation, and maintenance of your inverter. Please read it thoroughly before use.



Image: Green Cell 3000W Pure Sine Wave Power Inverter, showing its robust black casing and green branding.

SAFETY INSTRUCTIONS

Always observe the following safety precautions to prevent injury or damage to the inverter and connected devices.

- **Do not** open the inverter casing. High voltages are present inside.
- **Do not** expose the inverter to water, rain, snow, or spray.
- **Do not** operate the inverter near flammable materials or in environments with flammable fumes or gases.
- Ensure adequate ventilation around the inverter to prevent overheating.
- Connect the inverter only to a 24V DC power source. Connecting to a 12V source will not work, and connecting to a higher voltage source can cause damage.
- Ensure the total wattage of connected AC devices does not exceed the inverter's continuous power rating (3000W) or peak power rating (6000W) for short durations.
- Always connect the ground wire properly.
- Keep children away from the inverter.

- Disconnect the inverter from the battery before performing any maintenance or cleaning.

Safety first

A range of safety features to protect you
and all of your devices



Image: Green Cell inverter emphasizing safety features, indicating a robust design for protection.

PRODUCT FEATURES

- **Pure Sine Wave Output:** Provides stable power suitable for sensitive electronics, similar to household electricity.
- **High Power Output:** 3000W continuous power, with a peak power of 6000W for demanding loads.

- **24V DC to 230V AC Conversion:** Ideal for vehicles, caravans, and solar systems.
- **USB Charging Port:** Convenient for charging smartphones and tablets.
- **Advanced Cooling System:** Ensures quiet operation and high performance.
- **Multiple Safety Protections:** Designed to protect both the inverter and connected devices.

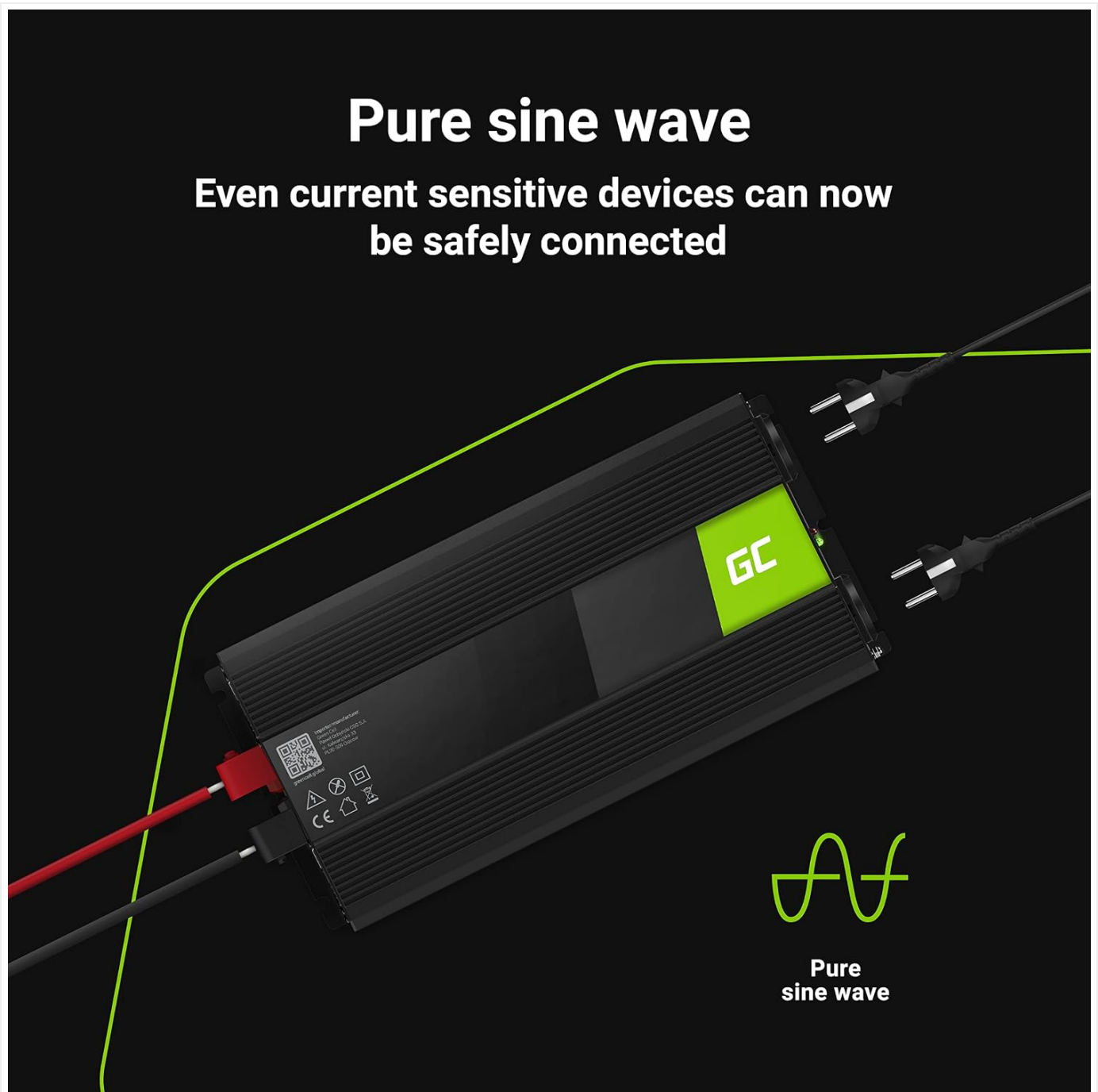


Image: Diagram illustrating the pure sine wave output of the inverter, suitable for sensitive devices.

Always by your side

Reaches where the civilization can not



Image: The Green Cell inverter depicted in diverse outdoor settings, including a van, a jeep, and a camping tent, highlighting its utility for portable power.

SETUP AND INSTALLATION

Package Contents:

- Green Cell 3000W/6000W Pure Sine Wave Power Inverter
- Connection Cables (Red for Positive, Black for Negative)
- Spare Fuses
- User Manual (this document)



Image: The Green Cell inverter shown with its included accessories: battery connection cables and spare fuses.

Connecting the Inverter:

1. **Choose a Location:** Select a dry, well-ventilated area away from direct sunlight, heat sources, and flammable materials. Ensure sufficient space for cooling fans.
2. **Grounding:** Connect the inverter's grounding terminal to a proper earth ground (e.g., vehicle chassis or dedicated ground rod) using a suitable gauge wire. This is crucial for safety.
3. **Battery Connection:**
 - Ensure the inverter is switched OFF.
 - Connect the **RED** positive (+) cable to the inverter's positive (+) DC input terminal.
 - Connect the other end of the **RED** cable to the positive (+) terminal of your 24V battery.
 - Connect the **BLACK** negative (-) cable to the inverter's negative (-) DC input terminal.
 - Connect the other end of the **BLACK** cable to the negative (-) terminal of your 24V battery.
 - Ensure all connections are tight and secure. Loose connections can cause overheating and damage.
4. **Powering On:** Once all connections are secure, switch the inverter ON using the power button. The indicator light should illuminate.

Thought through design

All you need captured in a strong case

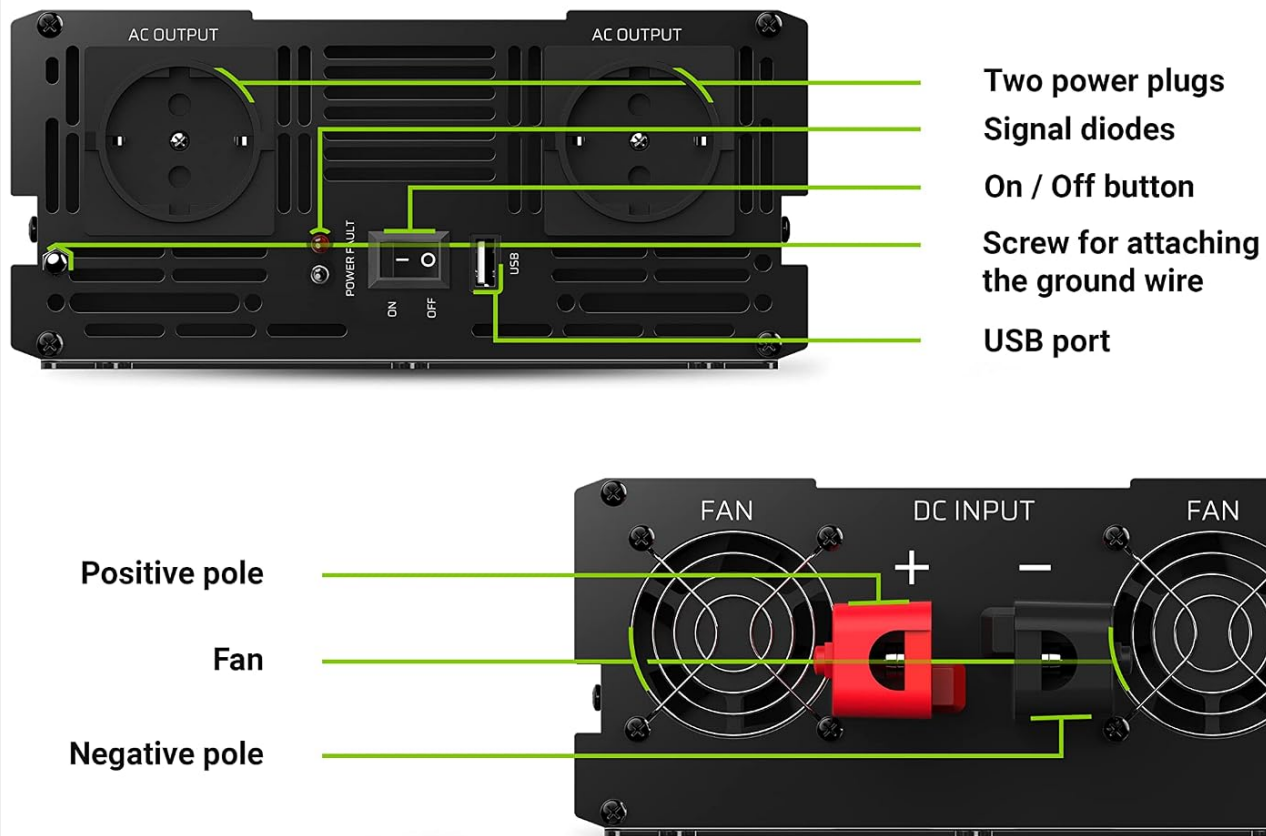


Image: Detailed diagram of the inverter's front and rear panels, labeling AC outputs, USB port, On/Off button, grounding screw, DC input terminals, and cooling fans.

OPERATING INSTRUCTIONS

Connecting AC Devices:

1. Ensure the inverter is ON and the indicator light is green.
2. Plug your 230V AC appliance into one of the AC output sockets on the inverter.
3. For charging smaller devices, use the USB port.
4. Monitor the total power consumption of your devices to stay within the inverter's limits.



Image: The Green Cell inverter in use, powering a laptop and charging a smartphone inside a vehicle.



Image: The Green Cell inverter placed in a car trunk, connected and powering a laptop, demonstrating portable power.

Understanding Indicators:

- **Green LED:** Inverter is operating normally.
- **Red LED / Alarm:** Indicates a fault condition (e.g., overload, low battery, overheating). The inverter may shut down automatically.

Cooling System:

The inverter features a smart cooling system with integrated fans that activate automatically when needed to maintain optimal operating temperature and ensure high performance.

Smart cooling system

Ensures silence of work while maintaining high performance



Image: Close-up view of the inverter's rear panel, highlighting the dual cooling fans for efficient heat dissipation.

MAINTENANCE

- **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, grounding wire) to ensure they are tight and free from corrosion.
- **Storage:** When not in use for extended periods, store the inverter in a cool, dry place. Disconnect it from the battery.
- **Fuses:** The inverter is equipped with internal fuses. If a fuse blows, it indicates an overload or short circuit. Replace only with fuses of the same type and rating. Consult a qualified technician if fuses blow repeatedly.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No power output, inverter off.	• Loose battery connections. • Low battery voltage. • Blown fuse. • Inverter switched off.	• Check and tighten all battery connections. • Recharge or replace the battery. • Check and replace fuses (if applicable, consult manual). • Press the power button to turn on.

Problem	Possible Cause	Solution
Inverter shuts down, red LED on/alarm sounds.	• Overload (too many devices). • Overheating. • Low battery voltage. • Short circuit in connected device.	• Reduce the load by disconnecting some appliances. • Allow the inverter to cool down; ensure proper ventilation. • Recharge the battery. • Disconnect all devices and test them individually.
Connected appliance not working.	• Appliance power exceeds inverter capacity. • Faulty appliance. • Inverter not providing power.	• Check appliance wattage against inverter specifications. • Test the appliance with a standard wall outlet. • Refer to "No power output" troubleshooting steps.

SPECIFICATIONS

Feature	Detail
Brand	Green Cell
Model Name	Green Cell PRO
Input Voltage	24 Volts DC
Output Voltage	230 Volts AC
Continuous Output Power	3000 Watts
Peak Output Power	6000 Watts
Output Waveform	Pure Sine Wave
Product Dimensions (L x W x H)	33 x 18.5 x 8 cm
Included Components	Cables, Fuses

WARRANTY AND SUPPORT

Green Cell products are covered by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official Green Cell website.

For technical support, troubleshooting assistance, or warranty claims, please contact Green Cell customer service through their official website or the retailer where you purchased the product.

Official Green Cell Website: greencell.pl

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

Answered questions about this manual

What is the recommended wire thickness for the Green Cell 3000W/6000W 24V Power Inverter?

The manual for the Green Cell 3000W/6000W 24V Power Inverter does not specify a precise AWG or mm² measurement for the wires. However, it provides the following guidance regarding power cables:Use Included Cables: The...

[Read full answer](#)