

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

› [Green Cell](#) /

› [Green Cell Car Power Inverter Converter 12V to 230V 500W/1000W User Manual INV03DE](#)

Green Cell INV03DE

Green Cell Car Power Inverter INV03DE User Manual

Model: INV03DE | 12V DC to 230V AC | 500W Continuous / 1000W Peak

1. IMPORTANT SAFETY INSTRUCTIONS

Read all instructions carefully before using the inverter. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Ventilation:** Ensure the inverter is placed in a well-ventilated area. Do not block ventilation openings.
- **Dry Environment:** Do not expose the inverter to water, rain, or spray. Operate only in dry conditions.
- **Proper Connection:** Connect the inverter only to a 12V DC power source. Incorrect voltage can damage the inverter and connected devices.
- **Polarity:** Always connect the positive (+) terminal of the inverter to the positive (+) terminal of the battery, and the negative (-) terminal to the negative (-) terminal. Reverse polarity will damage the inverter.
- **Overload Protection:** Do not exceed the inverter's continuous power rating (500W) or peak power rating (1000W). Overloading can cause damage to the inverter and connected appliances.
- **Children and Pets:** Keep the inverter out of reach of children and pets.
- **Heat:** The inverter generates heat during operation. Do not place it near flammable materials or in enclosed spaces.
- **Maintenance:** Do not attempt to open or modify the inverter. Refer all servicing to qualified personnel.

2. PACKAGE CONTENTS

Verify that all items are present in the package:

- Green Cell Car Power Inverter (Model INV03DE)
- Battery connection cables (red and black clips)
- Car cigarette lighter plug cable
- Spare fuses
- User Manual



Image 2.1: The Green Cell Car Power Inverter shown with its complete set of accessories, including battery clips, a car cigarette lighter plug, and spare fuses.

3. PRODUCT OVERVIEW

The Green Cell INV03DE Car Power Inverter converts 12V DC power from your vehicle's battery into 230V AC power, allowing you to operate standard household appliances on the go. It features a robust design with essential safety mechanisms.



Image 3.1: Top view of the Green Cell Car Power Inverter, highlighting the DC input terminals, power rating (500W continuous, 1000W surge), and various safety certifications.

Key Components:

- **DC Input Terminals:** Red (+) and Black (-) terminals for connecting to a 12V DC power source.
- **AC Output Socket:** Standard 230V AC outlet for connecting appliances.
- **Power Switch:** Turns the inverter ON/OFF.
- **LED Indicators:** Typically include a green LED for power ON and a red LED for fault/error conditions.
- **Cooling Fan:** Automatically activates to dissipate heat during operation.

4. SETUP

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

1. **Choose a Location:** Place the inverter on a flat, stable surface in a dry, well-ventilated area. Ensure there is sufficient space around the inverter for air circulation. Avoid direct sunlight or heat sources.
2. **Ensure Inverter is OFF:** Before making any connections, ensure the inverter's power switch is in the OFF position.
3. **Connect to 12V DC Power Source:**
 - **Using Battery Clips (for direct battery connection):** Connect the red (+) battery clip cable to the positive (+) terminal of your 12V battery. Connect the black (-) battery clip cable to the negative (-) terminal of your 12V battery. Then, connect the other ends of these cables to the corresponding red (+) and black (-) DC input terminals on the inverter. Ensure connections are tight and secure.
 - **Using Car Cigarette Lighter Plug (for lower power devices):** Insert the car cigarette lighter plug cable into your vehicle's 12V cigarette lighter socket. Connect the other end of the cable to the DC input terminals on the inverter, ensuring correct polarity (red to +, black to -). Note that the cigarette lighter socket typically supports lower power draw (e.g., up to 150W-200W) than direct battery connection.
4. **Verify Connections:** Double-check all connections to ensure they are secure and correctly polarized. Loose connections can cause overheating or damage.

5. OPERATING INSTRUCTIONS

Once the inverter is properly set up, follow these steps to operate it:

1. **Turn ON the Inverter:** Flip the power switch on the inverter to the ON position. The green LED indicator should illuminate, indicating that the inverter is receiving power and ready for use.
2. **Connect Your Appliance:** Plug your 230V AC appliance into the AC output socket on the inverter. Ensure the appliance's power consumption does not exceed the inverter's continuous power rating (500W). For short periods, it can handle up to 1000W peak power.
3. **Monitor Battery Level:** When using the inverter with a vehicle battery, be mindful of the battery's charge level. Prolonged use with the engine off can drain the battery, preventing the vehicle from starting.
4. **Turn OFF After Use:** When you are finished using the inverter, first unplug your appliance, then turn the inverter's power switch to the OFF position.



Image 5.1: The Green Cell Car Power Inverter in an outdoor setting, connected to a car battery via clips and actively charging a laptop, demonstrating a typical use case.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your inverter:

- **Cleaning:** Periodically clean the exterior of the inverter with a dry, soft cloth. Do not use liquid cleaners or solvents. Ensure ventilation openings are free from dust and debris.

- **Connection Check:** Regularly inspect the DC input connections for tightness and corrosion. Loose or corroded connections can lead to power loss or overheating.
- **Fuse Replacement:** If the inverter stops working and the fault indicator is on, the internal fuse may have blown due to an overload. Refer to the troubleshooting section for fuse replacement instructions. Always replace with a fuse of the same type and rating.
- **Storage:** When not in use for extended periods, store the inverter in a cool, dry place, away from direct sunlight and moisture. Disconnect it from the power source.

7. TROUBLESHOOTING

Refer to this section for common issues and their solutions:

Problem	Possible Cause	Solution
No power / Inverter not turning on	<ul style="list-style-type: none"> • Loose or incorrect DC connection • Low battery voltage • Blown fuse • Inverter switch is OFF 	<ul style="list-style-type: none"> • Check and secure DC input connections. Ensure correct polarity. • Charge the 12V battery. • Replace the fuse with one of the same rating (refer to manual for location). • Turn the inverter switch to ON.
Fault indicator (red LED) is ON	<ul style="list-style-type: none"> • Overload • Overheating • Short circuit in appliance • Input voltage too high/low 	<ul style="list-style-type: none"> • Reduce the load by unplugging some appliances. • Allow the inverter to cool down in a well-ventilated area. • Check the appliance for faults. • Verify the 12V DC input voltage is within the specified range.
Appliance not working	<ul style="list-style-type: none"> • Appliance power exceeds inverter rating • Appliance is faulty • Inverter is in protection mode 	<ul style="list-style-type: none"> • Check appliance wattage. Use only appliances within the 500W continuous rating. • Test the appliance with a known working power source. • Refer to 'Fault indicator' solutions above.

8. SPECIFICATIONS

Technical specifications for the Green Cell Car Power Inverter INV03DE:

- **Brand:** Green Cell
- **Model Number:** INV03DE
- **Input Voltage:** 12 Volts DC
- **Output Voltage:** 230 Volts AC
- **Continuous Output Power:** 500 Watts
- **Peak Output Power:** 1000 Watts
- **Total AC Output Sockets:** 1
- **Recommended Use:** Vehicle
- **Included Components:** Inverter, Battery connection cables, Car cigarette lighter plug cable, Spare fuses, User Manual

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided with your purchase or contact Green Cell customer service directly. Keep your proof of purchase for warranty claims.