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> GIANDEL 1500W Pure Sine Wave Power Inverter User Manual

GIANDEL PS-1500PBR

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Model: PS-1500PBR

Brand: GIANDEL

INTRODUCTION

Thank you for choosing the GIANDEL 1500W Pure Sine Wave Power Inverter. This device is designed to convert 12V DC power from your battery into 230V AC power, suitable for a wide range of household appliances and electronic devices. This manual provides essential information for the safe installation, operation, and maintenance of your inverter. Please read it thoroughly before use.

SAFETY INFORMATION

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

- Do not open the inverter casing. There are no user-serviceable parts inside.
- Ensure proper ventilation around the inverter. Do not block cooling vents.
- Keep the inverter away from water, moisture, and flammable materials.
- Connect the inverter only to a 12V DC power source. Connecting to a 24V or higher DC source will damage the unit.
- Ensure the total power consumption of connected AC devices does not exceed 1500W continuous power.
- Always connect the ground wire properly.
- Disconnect the inverter from the battery before performing any maintenance or cleaning.
- This inverter is designed for vehicle use (e.g., RVs, cars).

PRODUCT OVERVIEW

The GIANDEL 1500W Pure Sine Wave Power Inverter comes equipped with several features for optimal performance and user convenience.

Key Components

PRODUCT STRUCTURE



This diagram illustrates the main components of the GIANDEL 1500W Pure Sine Wave Power Inverter, including the front panel with AC outlets, USB ports, and LCD display, and the rear panel with battery terminals and cooling fans.

- **LCD Display:** Shows input voltage, output voltage, and battery status.
- **2 x 2.4A USB Ports:** For charging USB-powered devices.
- **Remote Control Port:** Connects the wired remote control.
- **LED Indicator:** Displays operational status.
- **Inverter Switch:** Power on/off button.
- **2 x AC Outlets:** For connecting 230V AC appliances.
- **Grounding Cable Terminal:** For safety grounding.
- **Positive (+) and Negative (-) Terminals:** For battery connection.
- **Intelligent Cooling Fans:** Automatically activate based on temperature.

Features



Große Leistung, schnelles Aufladen

Arbeitswärme schnell abführen,
Überhitzung vermeiden



2 * AC-Steckdosen



2*USB



Telefon & Pad



Fan



Bohrer



Drucker



Elektrogrill



Kühlschrank < 1500W



LED-FERNSEHER

The inverter provides 1500W continuous power, capable of running various devices simultaneously.

- **1500W Pure Sine Wave Output:** Provides stable and clean power, ideal for sensitive electronics.
- **Dual AC Outlets & USB Ports:** Allows multiple devices to be powered or charged simultaneously.
- **LCD Display & Remote Control:** Monitor input/output voltage and battery status, and control the inverter conveniently from a distance.
- **Comprehensive Protection:** Includes safeguards against short-circuit, over-voltage, under-voltage, overload, over-current, and over-temperature.
- **Durable Aluminum Casing:** Protects the inverter from drops and impacts.
- **Quiet Operation:** Integrated fan ensures efficient cooling with minimal noise.

SETUP

Follow these steps for proper installation of your GIANDEL power inverter:

1. **Choose a Location:** Select a cool, dry, and well-ventilated area for the inverter. Ensure it is away from direct sunlight, heat sources, and any flammable materials.
2. **Prepare Battery Cables:** Use the provided battery cables. Ensure the cable length is appropriate for your setup to minimize voltage drop.
3. **Connect Ground Wire:** Connect one end of a suitable grounding wire (not included, but essential for safety) to the grounding terminal on the inverter and the other end to a proper earth ground (e.g., vehicle chassis).
4. **Connect Battery Cables to Inverter:**
 - Connect the **red** battery cable to the **positive (+)** terminal on the inverter.
 - Connect the **black** battery cable to the **negative (-)** terminal on the inverter.
 - Ensure connections are tight and secure.
5. **Connect Battery Cables to Battery:**
 - Connect the other end of the **red** battery cable to the **positive (+)** terminal of your 12V battery.
 - Connect the other end of the **black** battery cable to the **negative (-)** terminal of your 12V battery.
 - Ensure connections are tight and secure.

Important: Always connect the inverter terminals first, then the battery terminals. Ensure correct polarity to avoid damage.



The inverter package includes the main unit, remote control with cable, and battery cables for connection.

6. **Connect Remote Control (Optional):** If using the remote control, plug its cable into the designated port on the inverter.

OPERATING INSTRUCTIONS

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

1. **Power On:** Press the power switch on the inverter or the remote control. The LCD display will light up, and the LED indicator will show green, indicating the inverter is operational.
2. **Monitor LCD Display:** The LCD screen provides real-time information:



FERNBEDIENUNG

Mit der optionalen Fernbedienung können Sie den Wechselrichter leicht ein- und ausschalten, wenn er an Wohnmobilen, LKWs oder anderen schwer zugänglichen Orten angebracht wird.

The digital LCD screen provides real-time data on input voltage, output voltage, and battery capacity.

- **Input Voltage (DC 12V IN):** Shows the current voltage from your battery.
 - **Output Voltage (AC 220V-240V OUT):** Displays the AC output voltage.
 - **Battery Level Indicator:** Provides an estimate of your battery's charge status.
 - **Warning Indicators:** Displays error codes if a protection mode is activated (see Troubleshooting section).
3. **Connect Appliances:** Plug your AC appliances into the 230V AC outlets and USB devices into the USB ports. Ensure the total wattage of all connected devices does not exceed 1500W.
 4. **Power Off:** When finished, turn off the inverter using the power switch on the unit or the remote control. Disconnect appliances before powering off for safety.

Remote Control Operation



The remote control allows for convenient power management, especially when the inverter is installed in hard-to-reach locations. The included remote control with a 15-foot cable allows you to turn the inverter on and off from a distance. This is particularly useful when the inverter is installed in an inaccessible location, such as inside an RV or truck.

MAINTENANCE

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

- **Cleaning:** Periodically clean the exterior of the inverter with a soft, dry cloth. Do not use liquid cleaners or solvents. Ensure cooling vents are free from dust and debris.
- **Connections:** Regularly check all cable connections (battery terminals, AC outlets, remote control port) to ensure they are secure and free from corrosion. Loose connections can lead to overheating and inefficient operation.
- **Ventilation:** Ensure the area around the inverter remains clear to allow for proper airflow and prevent overheating. The intelligent cooling fans will activate automatically when the internal temperature exceeds 40°C (104°F).
- **Storage:** If storing the inverter for an extended period, disconnect it from the battery and store it in a cool, dry place.



The intelligent cooling fans help maintain optimal operating temperature and prevent overheating.

TROUBLESHOOTING

The inverter is equipped with multiple protection features. If an error occurs, the LCD display may show a specific code. Refer to the table below for common issues and their solutions:

Intelligente Digital Anzeige

Der Bildschirm zeigt die DC-Eingangsspannung, Ausgangsspannung und Batteriekapazität an, um Ihnen bei der Bestimmung des Nutzungsstatus des Wechselrichters zu helfen.

→ DC 12V IN

→ AC 220V-240V OUT

15 Fuß

OL

Nachdem der Wechselrichter in den Schutzmodus wechselt, wird der folgende Code angezeigt:

- LO: Unterspannungsschutz
- OH: Überhitzungsschutz
- HI: Überspannungsschutz
- OL: Ausgangsüberlastung oder Kurzschlusschutz

Mikroprogrammierte Steuereinheit

The LCD display provides error codes to help diagnose issues. This image shows an 'OL' error, indicating output overload or short-circuit.

Error Code / Symptom	Possible Cause	Solution
LO (Low Voltage Alarm)	Battery voltage is too low.	Recharge or replace the battery. Disconnect non-essential loads.
OH (Overheating)	Inverter is too hot. Blocked ventilation.	Turn off the inverter, allow it to cool down. Ensure proper ventilation and clear any obstructions. Reduce load.
HI (High Voltage Alarm)	Input voltage is too high.	Check battery voltage. Ensure it is within the 12V operating range.
OL (Overload / Short-circuit)	Connected load exceeds 1500W or there is a short circuit.	Disconnect all appliances. Check for short circuits in wiring or appliances. Reconnect devices one by one, ensuring total wattage is below 1500W.
No Output / No Power	Loose battery connections, dead battery, or inverter switch off.	Check battery connections. Ensure battery is charged. Press the power switch.

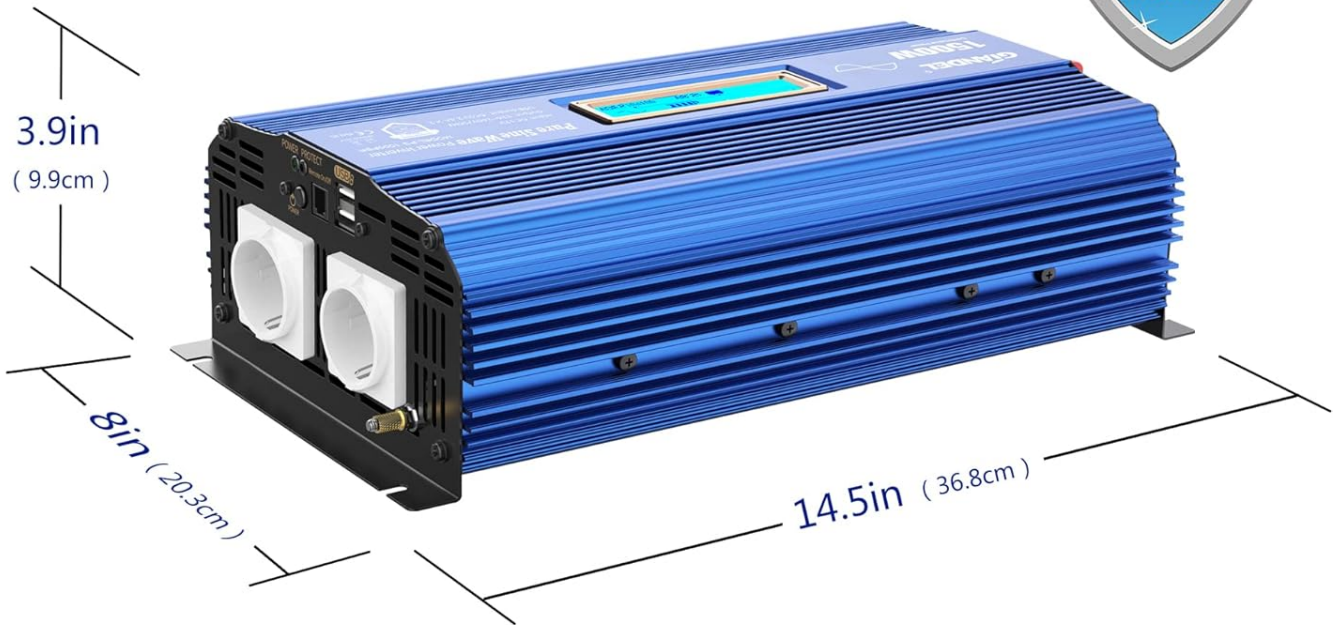
If the problem persists after attempting these solutions, please contact GIANDEL customer support.

SPECIFICATIONS

Detailed technical specifications for the GIANDEL 1500W Pure Sine Wave Power Inverter:

Feature	Detail
Model Number	PS-1500PBR
Continuous Power	1500 Watts
Input Voltage	12 Volts DC
Output Voltage	230 Volts AC
Output Waveform	Pure Sine Wave
USB Ports	2 x 2.4A DC 5V
AC Outlets	2
Dimensions (L x W x H)	36.8 x 20.3 x 9.9 cm (14.5 x 8 x 3.9 inches)
Remote Control Cable Length	15 feet
Cooling	Intelligent Cooling Fan (activates > 40°C)
Color	Blue
Recommended Use	Vehicle (RV, Car)

MATERIAL & GRÖSSE



Fernbedienung



Batteriekabel



Physical dimensions of the inverter and details of the included remote control and battery cables.

WARRANTY AND SUPPORT

GIANDEL provides comprehensive support for its products:

- **Warranty:** This product comes with a 24-month warranty from the date of purchase. Please retain your proof of purchase for warranty claims.
- **Product Liability Insurance:** The product liability insurance for this inverter is provided by AIG.
- **Customer Service:** For any questions, technical assistance, or warranty claims, please contact GIANDEL customer support. Refer to the product packaging or GIANDEL's official website for contact information.

The inverter comes with essential accessories for immediate use and support.

