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› Giandel Pure Sine Wave Power Inverter 300W User Manual

Giandel PS-300B CAR

Giandel Pure Sine Wave Power Inverter 300W User Manual

Model: PS-300B CAR

1. INTRODUCTION

This user manual provides essential information for the safe and efficient operation of your Giandel 300W Pure Sine Wave Power Inverter. This device converts 12V DC power from your vehicle's battery into 120V AC household power, suitable for a wide range of electronic devices. It features multiple charging ports, including Type-C PD30W and QC3.0 USB, along with two standard AC outlets.



Figure 1: Giandel 300W Pure Sine Wave Power Inverter (Silver Model)

2. SAFETY INFORMATION

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.

- **Important Note:** If your car cigarette socket is equipped with a 15 Amp fuse, do not power devices exceeding 150 Watts. Exceeding this limit can blow the fuse or damage the vehicle's electrical system.
- Ensure proper ventilation around the inverter. Do not block cooling vents.
- Keep the inverter away from water, moisture, and flammable materials.
- Do not open the inverter casing. There are no user-serviceable parts inside.
- Disconnect the inverter from the power source when not in use.
- This inverter is designed for 12V DC input only. Do not connect to 24V DC or higher voltage sources.
- Avoid connecting loads that exceed the inverter's continuous power rating (300W) or peak power rating (600W).

Safe & Reliable

GIANDEL 300W Car Power Inverter with 7 Protections

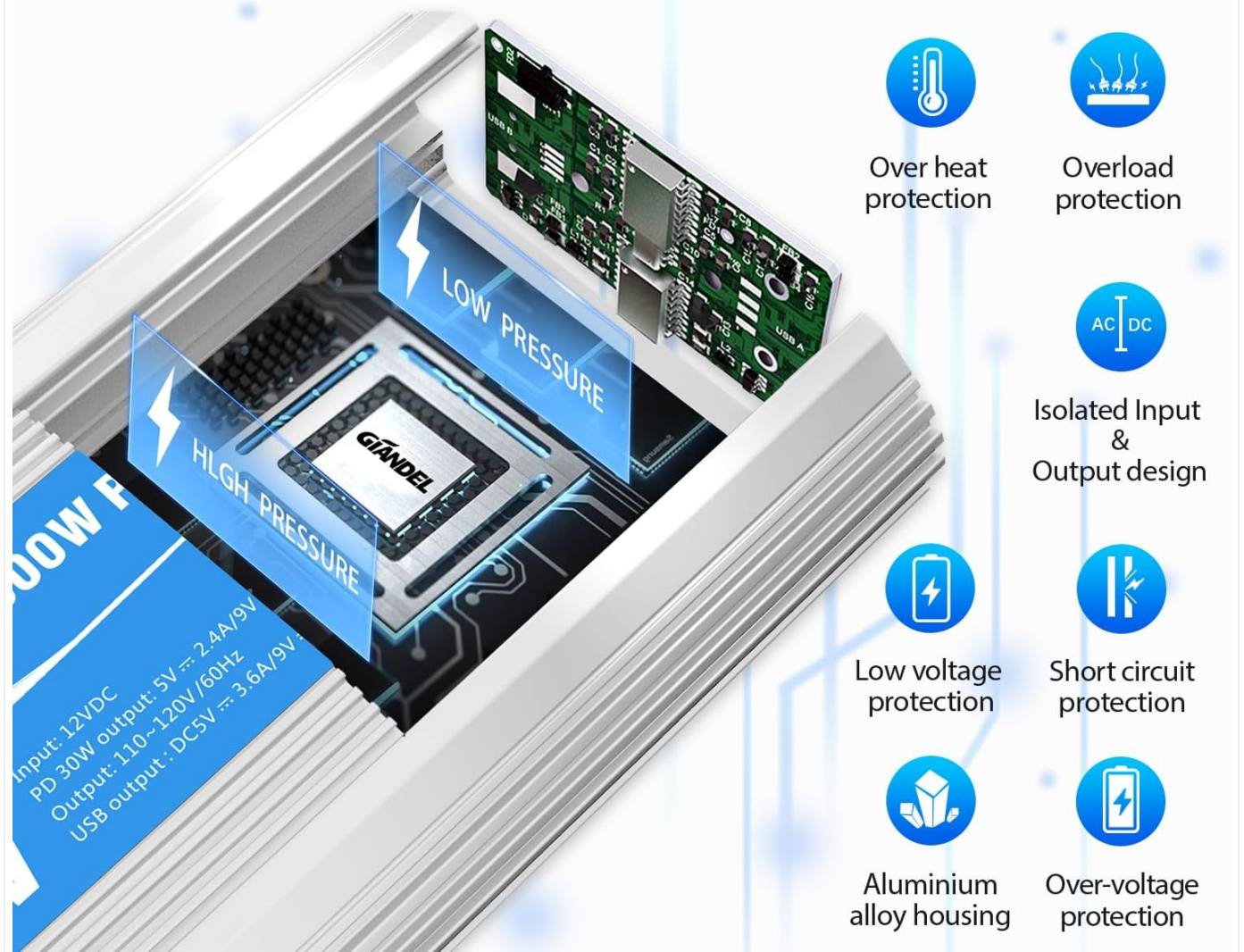


Figure 2: Inverter with highlighted safety features including over-heat, overload, short circuit, low voltage, and over-voltage protection.

3. SETUP

1. **Vehicle Compatibility:** Ensure your vehicle provides a 12V DC cigarette lighter socket.
2. **Placement:** Place the inverter in a stable, well-ventilated area, away from direct sunlight, heat sources, and moisture. Ensure the cooling fan vents are unobstructed.
3. **Connection:** Insert the inverter's cigarette lighter plug firmly into your vehicle's 12V DC accessory socket.
4. **Power Off:** Before connecting any devices, ensure the inverter's power switch is in the "OFF" position.

High Quality Cigarette Lighter

Durable, vehicle cigarette lighter plug provides high-speed charging from your car.

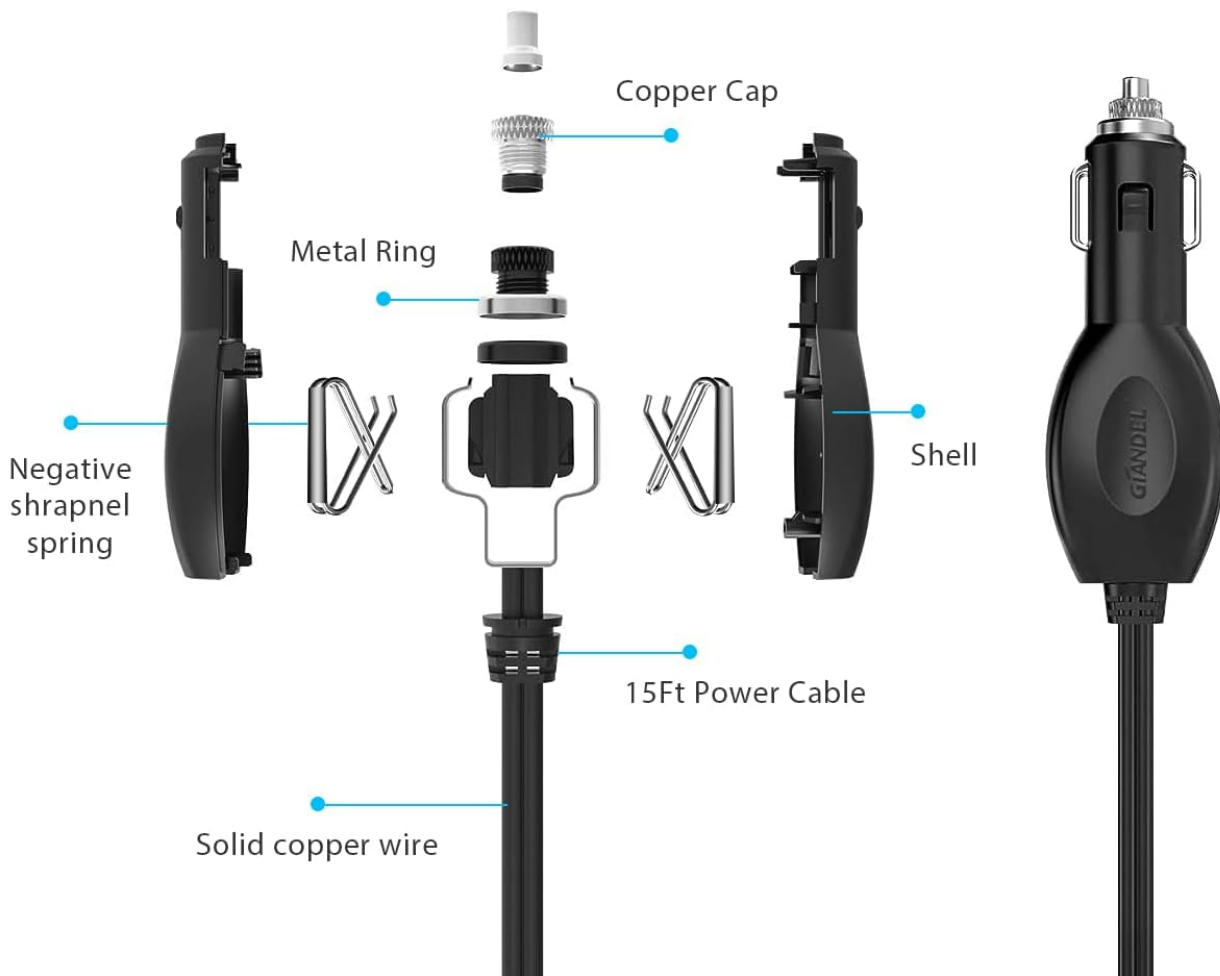


Figure 3: Diagram showing the components of the high-quality cigarette lighter plug and its connection to the inverter.

4. OPERATING INSTRUCTIONS

- 1. Powering On:** After connecting the inverter to your vehicle's 12V DC socket, switch the inverter's power button to the "ON" position. The green "POWER" indicator light will illuminate.
- 2. Connecting AC Devices:** Plug your 120V AC devices into the two standard AC outlets on the inverter. Ensure the total wattage of connected devices does not exceed 300 Watts continuous power.
- 3. Using USB Charging Ports:**
 - **QC3.0 USB Port:** For fast charging compatible devices.
 - **Type-C PD30W Port:** For fast charging compatible devices, delivering up to 30W.
 - The inverter automatically detects your devices to deliver the fastest charge speed.

4. **Pure Sine Wave Output:** This inverter produces a pure sine wave output, which is ideal for sensitive electronics like laptops, medical equipment (e.g., CPAP machines), and audio/video equipment, ensuring stable and clean power.
5. **Powering Off:** When finished, switch the inverter's power button to the "OFF" position and then disconnect it from the vehicle's cigarette lighter socket.

Fast Charging

Charge Four Devices at the Max Speed

300W Continuous Power
GANDEL 300W Pure Sine Wave Inverter
MODEL-PS-300B

Input: 12VDC
Power Output: 300W (240VAC/12.5A)
Output: 120V/60Hz
USB Output: 2x5V=1.6A/1W, 2x5V=2.4A/1.2W

ON OFF
QC 3.0 AUTO 9-3.6A
PD 30W
POWER

PD 30W + QC 3.0
Normal USB Port

↑ **77%**
Charge Speed

Figure 4: Close-up view of the inverter's control panel, showing the power switch, AC outlets, QC3.0 USB, and PD30W Type-C ports.



Figure 5: Illustration demonstrating the pure sine wave output, highlighting its efficiency and low total harmonic distortion (THD).

5. MAINTENANCE

- **Cleaning:** Use a dry, soft cloth to clean the exterior of the inverter. Do not use abrasive cleaners or solvents.
- **Ventilation:** Regularly check that the cooling vents are free from dust and debris to ensure proper airflow.
- **Fuse Replacement:** The inverter features a replaceable fuse for protection. If the inverter stops working, check your vehicle's cigarette lighter fuse first. If the inverter's internal fuse needs replacement, consult a qualified technician or contact Giandel customer support.



Figure 6: Exploded view of the inverter's heat dissipation system, showing the intelligent cooling fan and replaceable fuse.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Inverter not powering on.	<p>Loose connection.</p> <p>Vehicle's cigarette lighter fuse blown.</p> <p>Inverter's internal fuse blown.</p> <p>Vehicle battery voltage too low.</p>	<p>Ensure the cigarette lighter plug is fully inserted.</p> <p>Check and replace the vehicle's cigarette lighter fuse if necessary.</p> <p>Contact Giandel support for internal fuse issues.</p> <p>Start the vehicle engine to ensure sufficient battery voltage.</p>

Problem	Possible Cause	Solution
Inverter shuts down or beeps.	<p>Overload (connected device wattage too high).</p> <p>Over-temperature (poor ventilation).</p> <p>Low input voltage (vehicle battery low).</p> <p>Short circuit in connected device.</p>	<p>Reduce the load by disconnecting some devices.</p> <p>Ensure vents are clear and the inverter is in a cool, well-ventilated area.</p> <p>Start the vehicle engine to recharge the battery.</p> <p>Disconnect all devices and test the inverter with a known good, low-power device.</p>
USB ports not charging.	<p>Inverter not powered on.</p> <p>Device not compatible with fast charging.</p> <p>Cable issue.</p>	<p>Ensure the inverter is switched on.</p> <p>Try a different device or cable.</p> <p>Verify the device supports QC3.0 or PD30W.</p>

7. SPECIFICATIONS

Feature	Detail
Model Name	PURE SINE WAVE CAR POWER INVERTER
Model Number	PS-300B CAR
Brand	Giandel
Power Source	DC 12V Car Cigarette Lighter
Continuous Wattage	300 Watts
Peak Power	600 Watts
AC Output	120V AC, 60Hz (Pure Sine Wave)
USB Output 1	QC3.0 (Quick Charge 3.0)
USB Output 2	Type-C PD30W (Power Delivery 30W)
Product Dimensions	6.22 x 4.13 x 1.77 inches
Item Weight	1.66 pounds
Protections	Over voltage, Low voltage, Overload, Short circuit, Over heat

8. WARRANTY AND SUPPORT

Giandel provides an **18-month warranty** for this product, covering manufacturing defects and workmanship under normal use. For warranty claims, technical support, or any questions regarding your Giandel Pure Sine Wave Power Inverter, please contact Giandel customer service through their official channels or visit their website.

For more information, you may visit the [Giandel Store on Amazon](#).



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