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BYGD HY-PC-P1500-US

BYGD 1500W Power Inverter User Manual

Brand: BYGD | Model: HY-PC-P1500-US

Safety Information

Please read all safety instructions carefully before operating the BYGD Power Inverter. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- This power inverter is designed for indoor use only. Avoid exposure to rain, moisture, or extreme temperatures.
- Avoid using this power inverter with high-power appliances such as hair dryers, power tools, or heaters. Do not exceed the converter's rated power (1500W continuous) during continuous use.
- Do not leave the power inverter connected to the vehicle's power source when the car engine is switched off for extended periods to prevent battery drain.
- Ensure proper ventilation around the inverter. Do not block the cooling fan vents.
- Keep out of reach of children.

Product Overview

The BYGD 1500W Power Inverter converts 12V DC power from your vehicle to 110V AC power, providing a continuous output of 1500W and a peak power of 3000W. It features two standard AC sockets and two 2.1A fast-charging USB ports, making it ideal for various applications including camping, travel, and emergency power needs.



Figure 1: BYGD 1500W Power Inverter with included accessories.

Key Features:

- **High Power Output:** Delivers 1500W continuous power and 3000W peak power.
- **Versatile Charging:** Equipped with 2 AC sockets and 2 x 2.1A USB ports for charging multiple devices simultaneously.
- **Multi-Protection System:** Features safety isolated transformer, built-in replaceable 40A mini external fuses, and protection against overheating, overpressure, short circuiting, overloading, and overcharging.
- **Efficient Cooling:** Integrated silent automatic control cooling fan ensures optimal heat dissipation and protects against overheating.
- **Durable Construction:** Made from ABS refractory fireproof material for enhanced safety and longevity.

Package Contents

Please ensure all items are present in the package:

- 1 x BYGD 1500Watt Power Inverter
- 1 x User Manual
- 2 x O-ring connector cords
- 4 x Fuses

Setup Instructions

Follow these steps to set up your BYGD Power Inverter:

1. **Connect to Power Source:** Ensure your vehicle's engine is running or the battery is sufficiently charged. Connect the O-ring connector cords to the DC input terminals on the inverter. The red cable connects to the positive (+) terminal and the black cable to the negative (-) terminal.
2. **Secure Connection:** Connect the other end of the O-ring connector cords to your vehicle's 12V battery terminals (red to positive, black to negative). Ensure connections are tight and secure.
3. **Placement:** Place the inverter in a well-ventilated area, away from direct sunlight, heat sources, and moisture. Ensure the cooling fans are not obstructed.



Figure 2: Labeled components of the BYGD Power Inverter, including DC input terminals.



Figure 3: Overheating protection system with dual cooling fans and heatsink.

Operating Instructions

Once the inverter is properly connected to your vehicle's power source:

1. **Power On:** Press the power switch on the inverter to turn it on. The green "Power light" LED indicator should illuminate.
2. **Connect Devices:** Plug your AC-powered devices into the 110V AC sockets and your USB-powered devices into the 2.1A USB ports.
3. **Monitor Usage:** Ensure the total power consumption of connected devices does not exceed the inverter's rated continuous power (1500W) to prevent overload.
4. **Power Off:** When finished, turn off the inverter using the power switch before disconnecting it from the vehicle's

power source.

Compatible Applications:

The BYGD Power Inverter is suitable for a wide range of electronic devices and appliances, making it a perfect solution for outdoor electricity needs:



Figure 4: Wide compatibility with various electronic devices.



Figure 5: Ideal scenarios for using the BYGD Power Inverter.

LED Indicator Status

The LED indicators on the inverter provide important status information:

- **Green light is on:** Working normally.
- **Green flashing:** Undervoltage or overvoltage protection active.
- **Red flashing:** Overload protection active.
- **Red light on:** Short circuit protection active.
- **Red and green flashing alternately:** Overheating protection active or fan not working.

- **Off:** Not powered on, fuse blown, or no power input.

Multi-Protection System

The BYGD Power Inverter incorporates multiple safety features to protect both the device and your connected electronics:



Figure 6: Comprehensive protection features for electrical equipment.

- **Safety Isolated Transformer:** Separates primary and secondary circuits for enhanced safety.
- **Replaceable Fuses:** Built-in 4 replaceable 40A mini external fuses provide protection against electrical surges.
- **Comprehensive Circuit Protection:** Safeguards against overheating, overpressure, short circuiting, overloading, and overcharging.

Maintenance

To ensure the longevity and optimal performance of your BYGD Power Inverter, follow these maintenance guidelines:

- **Cleaning:** Regularly clean the exterior of the inverter with a soft, dry cloth. Ensure the cooling fan vents are free from dust and debris. Do not use liquid cleaners.
- **Storage:** When not in use for extended periods, store the inverter in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Inspection:** Periodically check the input cables and connections for any signs of wear, damage, or corrosion. Ensure all connections remain secure.
- **Fuse Replacement:** If a fuse blows, replace it with a fuse of the same type and rating (40A mini external fuse). Always disconnect the inverter from the power source before replacing fuses.

Troubleshooting

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

Problem	Possible Cause	Solution
Inverter not turning on (LED off)	No power input, blown fuse, loose connection.	Check vehicle's 12V power source, ensure connections are secure, replace blown fuses.
Green LED flashing	Input voltage too low or too high.	Ensure vehicle engine is running and battery voltage is within 12V operating range.
Red LED flashing	Overload.	Reduce the load by disconnecting some devices. Ensure total wattage is below 1500W.
Red LED on	Short circuit.	Disconnect all devices and check for short circuits in cables or devices.
Red and Green LEDs flashing alternately	Overheating or fan malfunction.	Allow inverter to cool down. Ensure fan vents are clear and fan is operating.

Specifications

Feature	Detail
Product Dimensions	11 x 6.5 x 3 inches
Item Weight	4.4 pounds
Model Number	HY-PC-P1500-US

Feature	Detail
Brand	BYGD
Recommended Uses	Vehicle
Power Source	110v, Corded Electric, Inverter, Power
Wattage	1500 watts (Continuous), 3000 watts (Peak)
Color	P1500red
AC Output	110V AC
DC Input	12V DC
USB Ports	2 x 2.1A



Figure 7: Product dimensions and cable length.

Warranty and Support

BYGD offers professional customer service support. For any inquiries or assistance, please contact our 24-hour customer service team.

For detailed information and a downloadable version of this manual, please refer to the official User Guide PDF:

Download User Guide (PDF)

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.

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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