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BYGD TUV750

BYGD 750W Car Power Inverter User Manual

Model: TUV750

INTRODUCTION

Thank you for choosing the BYGD 750W Car Power Inverter. This device converts 12V DC power from your vehicle's battery into 240V AC household power, allowing you to operate various electronic devices on the go. It also features two USB ports for charging smaller devices. Please read this manual thoroughly before use to ensure safe and efficient operation.

Safety Information

- Do not expose the inverter to water, rain, or snow.
- Do not operate the inverter if it has received a sharp blow, been dropped, or otherwise damaged.
- Do not disassemble the inverter. Incorrect reassembly may result in a risk of electric shock or fire.
- To reduce the risk of electric shock, unplug the inverter from the outlet before attempting any maintenance or cleaning.
- Keep children away from the inverter.
- Ensure proper ventilation around the inverter during operation to prevent overheating.

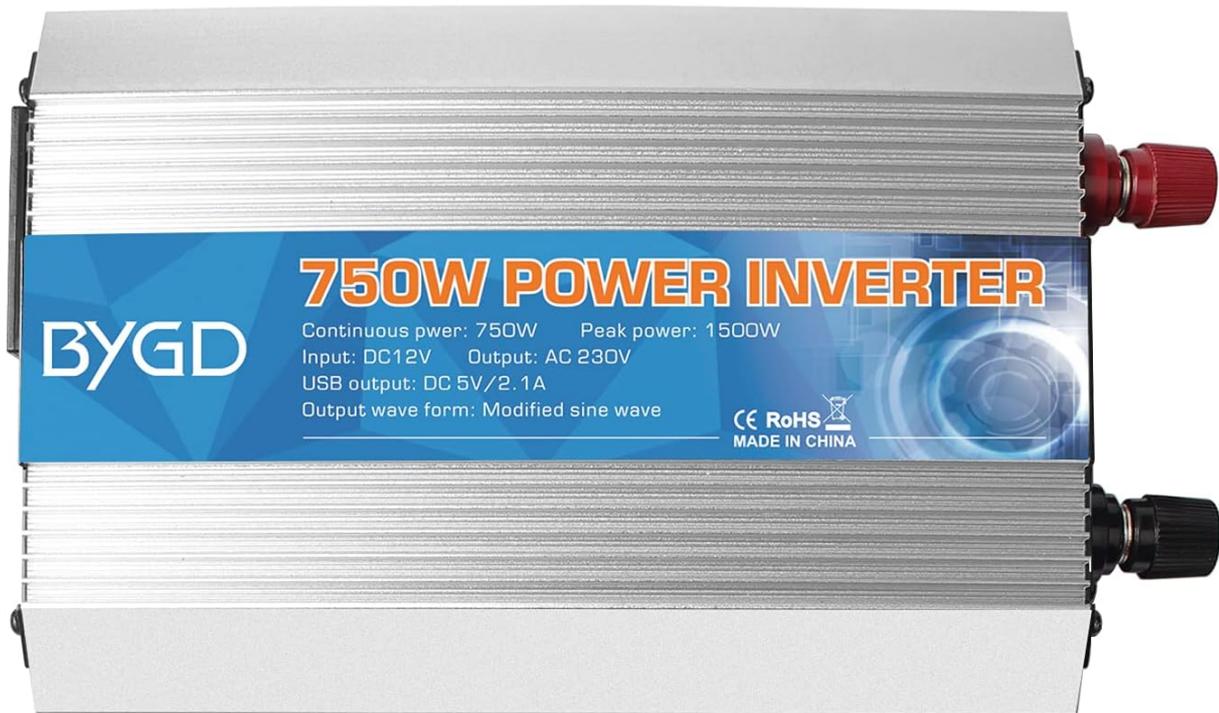
PRODUCT OVERVIEW

The BYGD 750W Car Power Inverter is designed for convenience and reliability. Familiarize yourself with its components:



Image: Front and rear view of the BYGD 750W Car Power Inverter, highlighting the positive terminal, negative terminal, cooling fan, replaceable fuse, 230V AC socket, switch indicator light, power button switch, power indicator light, and 2 USB ports.

- **Positive Terminal:** Connects to the positive (+) terminal of the 12V DC power source.
- **Negative Terminal:** Connects to the negative (-) terminal of the 12V DC power source.
- **Cooling Fan:** Automatically activates to dissipate heat during operation.
- **Replaceable Fuse:** Provides overcurrent protection.
- **230V AC Socket:** For connecting AC-powered devices.
- **Power Button Switch:** Turns the inverter on or off.
- **Switch Indicator Light:** Illuminates when the inverter is powered on.
- **Power Indicator Light:** Indicates the operational status.
- **USB Ports (2.4A):** For charging USB-powered devices.



750W POWER INVERTER



User manual

30A*3 Replaceable fuse

Red and black clip line 55cm

Image: The BYGD 750W Power Inverter, user manual, three 30A replaceable fuses, and red and black battery clip cables (55cm).

SETUP

Follow these steps to properly set up your BYGD Car Power Inverter:

1. **Prepare the Vehicle:** Ensure your vehicle's engine is off before connecting the inverter.
2. **Connect Battery Clips:** Attach the red battery clip cable to the positive (+) terminal of your vehicle's 12V battery and the black battery clip cable to the negative (-) terminal.
3. **Connect to Inverter:** Connect the other end of the red cable to the positive terminal of the inverter and the black cable to the negative terminal of the inverter. Ensure all connections are secure and tight.
4. **Placement:** Place the inverter in a well-ventilated area, away from direct sunlight, heat sources, and moisture. Ensure the cooling fan is not obstructed.
5. **Initial Power On:** Once connected, press the power button on the inverter. The power indicator light should illuminate, indicating the inverter is ready for use.

OPERATING INSTRUCTIONS

Operating your BYGD Car Power Inverter is straightforward:

1. **Power On:** After successful setup, press the power button on the inverter. The indicator lights will confirm it is active.
2. **Connect AC Devices:** Plug your 240V AC devices into the AC outlet on the inverter. Ensure the total power consumption of your devices does not exceed the inverter's continuous power rating of 750W (or 1500W peak).
3. **Connect USB Devices:** Plug your USB-powered devices into the 2.4A USB charging ports.
4. **Monitor Usage:** Pay attention to the power indicator lights and any warning signals. If an alarm sounds or the inverter shuts down, refer to the troubleshooting section.
5. **Power Off:** When finished, first disconnect all devices from the inverter, then press the power button to turn off the inverter. Finally, disconnect the inverter from the vehicle's battery.

Important Note: The inverter provides a modified sine wave output. While suitable for most electronic devices, some sensitive electronics or devices with AC motors may require a pure sine wave inverter for optimal performance.

MAINTENANCE

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

- **Cleaning:** Periodically clean the exterior of the inverter with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- **Ventilation:** Ensure the cooling fan and ventilation openings are free from dust and debris. Blocked vents can lead to overheating.
- **Fuse Replacement:** The inverter is equipped with replaceable 30A fuses. If the inverter stops working due to an overload or short circuit, the fuse may need replacement.



Image: A close-up view of the BYGD 750W Car Power Inverter's rear panel, showing the three 30A replaceable fuses installed next to the battery terminals and cooling fan.

To replace a fuse:

1. Disconnect the inverter from all power sources and devices.
2. Carefully remove the fuse cover.
3. Replace the blown fuse with a new 30A fuse of the same type.
4. Securely replace the fuse cover.



Fan cooling



Convection design,
two-way heat dissipation

Image: A diagram showing the internal cooling fan and the convection design for two-way heat dissipation within the BYGD 750W Car Power Inverter, ensuring efficient temperature regulation.

TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No power output	Loose connections, low battery voltage, blown fuse, inverter off	Check all connections, charge vehicle battery, replace fuse, turn inverter on
Inverter shuts down	Overload, overheating, low/high input voltage	Reduce load, ensure proper ventilation, check battery voltage
Fan not running	Not enough heat generated to activate fan, fan malfunction	Fan activates automatically when needed. If inverter overheats and fan is off, contact support.

Problem	Possible Cause	Solution
Device not charging via USB	USB cable issue, device not compatible, inverter off	Try a different USB cable/device, ensure inverter is on

Protection Features

The BYGD inverter is equipped with multiple protection mechanisms to ensure safety and extend its lifespan:



Image: A diagram showing the internal chip and various protection features of the BYGD Power Inverter, including low voltage protection, high voltage protection, smarter circuit protection, and overload protection.

- **High Voltage Protection:** Shuts down if input voltage exceeds safe limits.
- **Low Voltage Protection:** Shuts down to prevent over-discharge of the vehicle battery.
- **Overload Protection:** Shuts down if connected devices draw too much power.
- **Overheating Protection:** Shuts down if internal temperature becomes too high.
- **Overcurrent Protection:** Protects against excessive current draw.
- **Short-Circuit Protection:** Protects against short circuits in the output.

SPECIFICATIONS

Feature	Specification
Brand	BYGD
Model Number	TUV750
Continuous Power	750 Watts
Peak Power	1500 Watts
Input Voltage	DC 12V
Output Voltage	AC 240V
Output Frequency	50 Hz
Output Waveform	Modified Sine Wave
USB Output	2 x 2.4A USB Ports
Weight	1.4 Kilograms
Dimensions	24.9 x 14.2 x 7.4 cm
Built-in Fuse	30A

WARRANTY AND SUPPORT

BYGD products are manufactured to high-quality standards. For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official BYGD website. Keep your purchase receipt as proof of purchase for any warranty claims.