

BYGD BYGD A300W

BYGD 300W Car Power Inverter User Manual

Model: BYGD A300W

1. PRODUCT OVERVIEW

The BYGD 300W Car Power Inverter converts 12V DC vehicle power to 110V AC household power. It features dual AC outlets and four USB quick charging ports, providing a versatile power solution for various electronic devices on the go. This unit is designed for portability and includes multiple safety protections.

Package Contents:

- 1 x BYGD 300W Power Inverter
- 1 x Cigarette Lighter Plug Cable
- 2 x Alligator Battery Clips
- 2 x 30A External Fuses
- 1 x User Manual



Image 1: The BYGD 300W Car Power Inverter shown with its dual AC outlets, four USB ports, ON/OFF switch, and included cigarette lighter cable and battery clamps.

2. IMPORTANT SAFETY INFORMATION

Read and understand all safety instructions before operating the inverter. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Input Voltage:** Do not connect the inverter to power sources exceeding 12V DC. Connecting to 24V or 48V systems will damage the unit.
- **Power Limitations:** For devices exceeding 150W, connect the inverter directly to the vehicle battery using the provided alligator clips. Do not use the cigarette lighter plug for loads above 150W.
- **Vehicle Operation:** Ensure the inverter's ON/OFF switch is in the "OFF" position when leaving the vehicle to prevent battery drain.
- **Ventilation:** Ensure adequate ventilation around the inverter. Do not block cooling vents.
- **Environment:** Avoid exposing the inverter to water, rain, or excessive moisture. Do not operate in flammable environments.
- **Modifications:** Do not attempt to open or modify the inverter. Servicing should only be performed by qualified personnel.

3. PRODUCT FEATURES

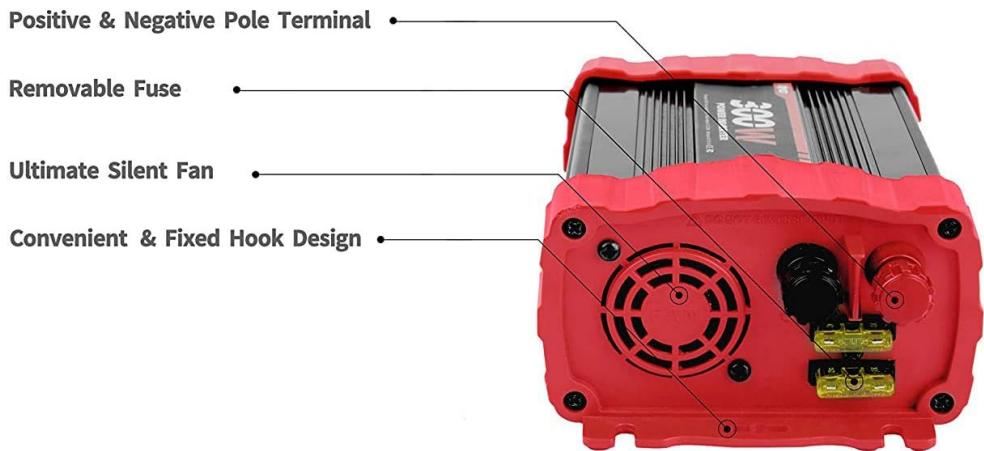
- **Power Output:** Provides 300W continuous power and 600W peak power.
- **Output Ports:** Equipped with two US standard 110V AC outlets and four 2.4A USB quick charging ports.
- **Input Options:** Connects to vehicle's 12V DC power via cigarette lighter plug or directly to battery terminals using alligator clips.

- **Safety Protections:** Built-in multi-protection system guards against over voltage, low voltage, overload, short circuit, over heat, and over charge.
- **Cooling System:** Features an intelligent, silent automatic control cooling fan for efficient heat dissipation.
- **Durable Construction:** Made from ABS fireproof material for enhanced safety and durability.
- **Compact Design:** Measures 6.5 x 4.5 x 2.5 inches and weighs 1.2 lbs (550g) for portability.



Image 2: Visual representation of the inverter's multi-protection features, including over voltage, overload, low voltage, overheating, and short circuit protection.

2 Attended Mode Choice



3.1A 4 USB Quick Charger Sockets



Image 3: Detailed views of the inverter's front panel showing AC outlets, USB ports, power indicator, and ON/OFF switch, and the rear panel with positive and negative pole terminals, removable fuse, and cooling fan.

4. SETUP INSTRUCTIONS

The BYGD 300W Car Power Inverter offers two connection methods:

4.1. Cigarette Lighter Connection (Up to 150W)

1. Ensure the inverter's ON/OFF switch is in the "OFF" position.
2. Insert the cigarette lighter plug cable firmly into the inverter's DC input port.
3. Plug the other end of the cigarette lighter cable into your vehicle's 12V cigarette lighter socket.
4. Proceed to Section 5: Operating Instructions.

Note: This connection method is suitable for devices consuming up to 150W. For higher power devices, use the battery clamp connection.

4.2. Battery Clamp Connection (Up to 300W)

1. Ensure the inverter's ON/OFF switch is in the "OFF" position.
2. Connect the red alligator clip to the inverter's positive (+) terminal and the black alligator clip to the negative (-) terminal. Ensure connections are secure.
3. Connect the red alligator clip to the positive (+) terminal of your vehicle's 12V battery.

4. Connect the black alligator clip to the negative (-) terminal of your vehicle's 12V battery.
5. Proceed to Section 5: Operating Instructions.

Caution: Always connect the inverter to the battery before turning it on. Ensure correct polarity (red to positive, black to negative) to prevent damage.



Image 4: The inverter's dimensions are shown, along with the cigarette lighter cable and alligator battery clamps for different connection modes.

5. OPERATING INSTRUCTIONS

1. After connecting the inverter to the 12V DC power source (cigarette lighter or battery), press the "ON/OFF" switch on the inverter to the "ON" position.
2. The green "POWER" indicator light will illuminate, indicating the inverter is operational.
3. Plug your AC devices into the 110V AC outlets or your USB devices into the USB charging ports.
4. Ensure the total power consumption of all connected devices does not exceed 300W.
5. When finished, turn the inverter's "ON/OFF" switch to the "OFF" position and disconnect it from the power source.

Important: Some devices, especially those with motors or heating elements, may have a higher startup (peak) wattage than their continuous wattage. Ensure the device's peak wattage does not exceed the inverter's 600W peak capacity.



IPHONE

Wide Application



IPAD



TV



SHAVER



CAMCORDER



COMPUTER



NOTEBOOK



CAMERA



Image 5: Illustrates a wide range of compatible devices such as phones, tablets, TVs, shavers, computers, notebooks, and cameras. It also indicates incompatible high-power appliances like hair dryers, electric pans, coffee makers, and microwaves.



Image 6: Examples of the inverter's application, including use during long journeys, camping, for in-car entertainment, and charging office items.

Portable
Convenient to Travel



Long Journey

BYGD

WORK STABLE



Camping



Entertainment In Car



Life In-car



Office Items Charging

Image 7: The inverter positioned in a vehicle's center console, demonstrating its compact size and ease of access for charging devices.

6. MAINTENANCE

- **Cleaning:** Periodically clean the exterior of the inverter with a dry, soft cloth. Do not use liquid cleaners.
- **Ventilation:** Ensure the cooling fan and vents are free from dust and debris to maintain proper airflow.
- **Fuse Replacement:** The inverter includes two external 30A fuses. If the inverter stops working and the "FAULT" indicator is lit, check and replace the fuses if necessary. Always use fuses of the same type and rating (30A).
- **Storage:** When not in use, store the inverter in a cool, dry place away from direct sunlight and moisture.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No power output, Power indicator OFF.	Inverter switch is OFF. Loose connection to 12V source. Vehicle's cigarette lighter fuse blown. Inverter's internal/external fuse blown.	Turn inverter switch to "ON". Check and secure all connections. Replace vehicle's cigarette lighter fuse. Replace inverter's external 30A fuses.
Inverter shuts down, Fault indicator ON.	Overload (device wattage too high). Overheating (poor ventilation). Short circuit in connected device.	Reduce load; ensure total wattage is below 300W. Ensure vents are clear; allow inverter to cool. Disconnect device; check for faults.
Audible alarm (beeping).	Low input voltage (vehicle battery low). High input voltage.	Start vehicle engine to recharge battery. Ensure input is 12V DC only.

8. SPECIFICATIONS

Model	BYGD A300W
Input Voltage	DC 12V
Output Voltage	AC 110V
Continuous Power	300W
Peak Power	600W
USB Output	4 x 2.4A (Quick Charging)
Dimensions (L x W x H)	6.5 x 4.5 x 2.5 inches
Weight	1.2 lbs (550g)
Material	ABS Fireproof

9. WARRANTY AND SUPPORT

The BYGD 300W Car Power Inverter is covered by an **18-month warranty** from the date of purchase. This warranty covers manufacturing defects and workmanship under normal use.

For technical support, warranty claims, or any questions regarding your product, please contact BYGD customer service. Refer to the contact information provided in your product packaging or visit the official BYGD website for assistance.

