BELTTT BAP3000

BELTTT 3000W Pure Sine Wave Inverter BAP3000 User Manual

Model: BAP3000

1. Introduction

This manual provides essential information for the safe and efficient operation of your BELTTT 3000W Pure Sine Wave Inverter. Please read it thoroughly before installation and use. This inverter converts 12V DC power from a battery into 120V AC power, suitable for various applications including RVs, trucks, off-grid systems, and home backup power.



Image 1.1: BELTTT 3000W Pure Sine Wave Inverter with accessories.

2. Safety Precautions

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

- Ensure proper ventilation around the inverter.
- Do not expose the inverter to water, rain, or excessive moisture.
- Avoid operating the inverter in direct sunlight or near heat sources.
- Connect the inverter only to a 12V DC power source.
- Always connect the ground terminal of the inverter to a proper earth ground.
- Do not open the inverter casing; there are no user-serviceable parts inside.
- Keep children away from the inverter.



Image 2.1: Advanced safety protection systems integrated into the inverter.

3. Package Contents

Verify that all items are present in your package:

- BELTTT 3000 Watt Pure Sine Wave Inverter
- 2x 1/0AWG 3Ft Battery Cables (Red and Black)
- Remote Controller with 23Ft Cable
- Thimble Spanner
- User Manual (this document)
- 9x 45A Fuses



Image 3.1: All components included in the product package.

4. Setup and Installation

4.1 Inverter Placement

Choose a dry, well-ventilated location for the inverter, away from direct sunlight, heat, and flammable materials. Ensure sufficient clearance around the unit for proper airflow.

4.2 Battery Compatibility

The inverter is compatible with various 12V battery types, including Lithium (LI), Flooded (FLD), Gel (GEL), Sealed Lead-Acid (SLD), and Absorbed Glass Mat (AGM) batteries. Ensure your battery system can provide the necessary current for your intended load.



Image 4.1: Inverter compatibility with different 12V battery chemistries.

4.3 Wiring Diagram

Follow the wiring diagram carefully for safe and correct installation. Incorrect wiring can damage the inverter, battery, or connected appliances.

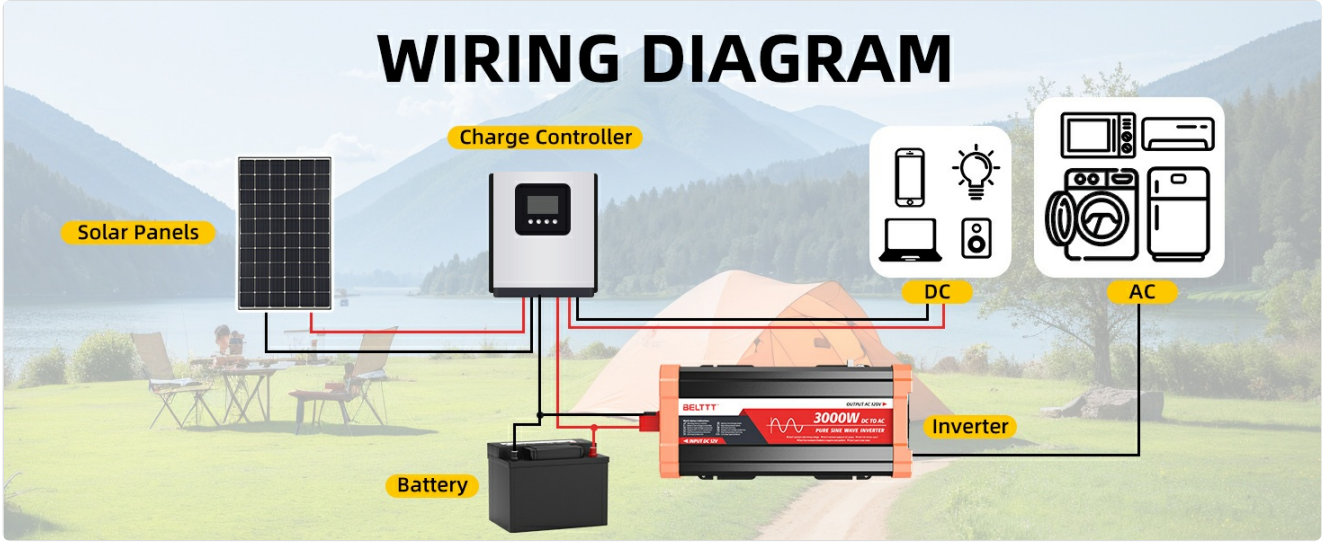


Image 4.2: Typical wiring diagram for a solar power system with the inverter.

4.4 Connecting the Inverter

1. **Grounding:** Connect the inverter's ground terminal to a reliable earth ground.
2. **DC Input:** Connect the red (positive) battery cable to the inverter's positive DC input terminal and the black (negative) battery cable to the inverter's negative DC input terminal. Ensure connections are tight and secure.
3. **Remote Controller:** Plug the remote controller cable into the designated port on the inverter. The 23-foot cable allows for flexible placement of the remote control panel.
4. **AC Output:** Once DC input is secure, you can connect your AC appliances to the dual AC sockets or the 20A outlet. For higher power loads, utilize the hardwire port.



Image 4.3: Front and rear panel connections of the inverter.



Image 4.4: Smart Remote Control Panel for convenient operation.

5. Operating Instructions

5.1 Powering On/Off

After all connections are secure, press the ON/OFF button on the inverter or the remote control to power on the unit. The LCD display will illuminate, indicating operational status.

5.2 Pure Sine Wave Output

This inverter produces a pure sine wave output, which is identical to the AC waveform from the utility grid. This makes it suitable for sensitive electronics such as televisions, home theater systems, and medical equipment, reducing the risk of damage or malfunction.

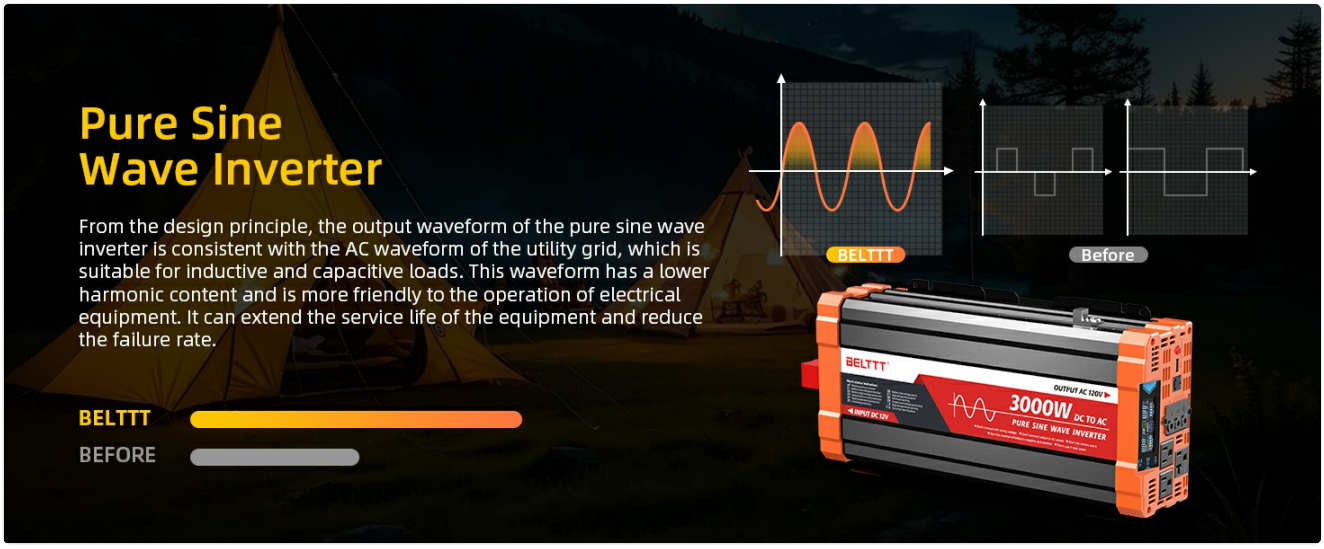


Image 5.1: Pure Sine Wave output for sensitive electronics.

5.3 Intelligent LCD Display

The high-brightness LCD screen provides real-time monitoring of key operational parameters:

- **DC Input Voltage:** Displays the voltage from your battery.
- **AC Output Voltage:** Shows the inverter's output voltage.
- **Battery Status:** Indicates the current charge level of the connected battery.
- **Load Status:** Displays the current power draw from connected appliances.
- **Frequency:** Shows the output frequency (e.g., 60Hz).
- **Error Codes:** Provides diagnostic codes for troubleshooting (refer to Section 7).

Output voltage and frequency can be adjusted within a small range using the dedicated buttons on the inverter or remote control.



Image 5.2: Detailed view of the intelligent LCD display and adjustment functions.

5.4 Connecting Appliances

Plug your 120V AC appliances into the available AC outlets. For charging USB devices, use the 5V 2.1A USB port. Ensure the total wattage of connected devices does not exceed the inverter's continuous power rating of 3000W.



Image 5.3: Inverter providing power to multiple electronic devices.

6. Maintenance

Regular maintenance ensures optimal performance and longevity of your inverter.

- **Cleaning:** Periodically clean the exterior of the inverter with a dry, soft cloth. Ensure ventilation openings are free from dust and debris. Do not use liquid cleaners.
- **Connections:** Regularly check all electrical connections (DC input, AC output, grounding) to ensure they are tight and free from corrosion. Loose connections can cause overheating and power loss.
- **Battery Health:** Monitor your battery's health and charge level, especially during prolonged storage or heavy use.
- **Fuse Replacement:** If a fuse blows, replace it with a fuse of the same type and rating (45A). Refer to the 'What's in the Box' section for spare fuses.

7. Troubleshooting

The inverter features an intelligent LCD display that shows error codes to assist with troubleshooting. Refer to the table below for common issues and their solutions.



Image 7.1: LCD display error codes and their descriptions.

Troubleshooting Guide

Error Code / Symptom	Possible Cause	Solution
01: Battery Low Voltage Protection	Battery voltage is too low.	Recharge or replace the battery. Reduce load.
02: Battery High Voltage Protection	Battery voltage is too high.	Check charging system. Disconnect overcharging source.
03: Output Short Circuit Protection	Short circuit detected at AC output.	Disconnect all AC loads. Check wiring for shorts. Replace blown fuses if necessary.
04, 07, 10: High Temperature Protection/Alarm/Warning	Inverter is overheating.	Ensure adequate ventilation. Reduce load. Allow inverter to cool down. Clean fan vents.
05, 08: Overload Protection/Warning	Connected load exceeds inverter's capacity.	Reduce the total wattage of connected appliances. Disconnect high-power devices.
No Power Output	Loose connections, blown fuse, inverter off.	Check battery connections. Verify inverter is switched on. Check and replace fuses.

8. Specifications

Feature	Specification
Model Number	BAP3000
Continuous Power	3000W
Peak Surge Power	6000W
DC Input Voltage	12V DC
AC Output Voltage	110V - 120V AC

Feature	Specification
Output Waveform	Pure Sine Wave
USB Output	5V 2.1A
AC Outlets	Dual AC Socket, 20A Outlet
Remote Controller Cable Length	23 Ft
Product Dimensions	17 x 7.7 x 3.9 inches
Item Weight	11.9 pounds
Operating Temperature Range	-4°F (-20°C) to 104°F (40°C)



Image 8.1: Inverter dimensions and weight.

9. Warranty and Support

For warranty information and customer support, please refer to the official BELTTT website or contact the manufacturer directly. The product is manufactured by POOJIN ELECTRONIC.

A digital version of this manual is available for download: BELTTT 3000W Inverter User Manual (PDF)

Visit the BELTTT Store for more products and information: BELTTT Store on Amazon

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.

Name

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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

Answered questions about this manual

My Belttt 3000W Pure Sine Wave Inverter worked for about an hour then went dead with no output and won't turn on. Where is the fuse located?

Based on the BELTTT BAP3000 manual, here is the information regarding the fuses and troubleshooting steps for a unit that will not turn on:Fuse Location: The manual states that there are no user-serviceable parts...

Read full answer