Datou Boss DATOU BOSS

DATOU BOSS 2000W Pure Sine Wave Power Inverter User Manual

Model: DATOU BOSS | Brand: Datou Boss

Introduction

This user manual provides essential information for the safe and efficient operation of your DATOU BOSS 2000W Pure Sine Wave Power Inverter. Please read this manual thoroughly before installation and use, and retain it for future reference. This inverter converts 12V DC power from a battery into 220V AC power, suitable for various household and outdoor applications.



Image: Front view of the DATOU BOSS 2000W Pure Sine Wave Power Inverter, showing the main unit, LCD display, AC outlets, and included battery cables.

Safety Instructions

WARNING: Improper installation or use of this inverter can result in electric shock, fire, or damage to the inverter and connected devices. Always follow these safety guidelines:

- Installation and commissioning must be performed by professional electrical maintenance personnel familiar with the device's structure and operation.
- Do not open the inverter casing due to high voltage danger inside. There are no user-serviceable parts.
- Ensure adequate ventilation around the inverter. Do not block the cooling vents.
- Avoid placing the inverter near heat-sensitive substances, as it will generate heat during prolonged use.
- Keep the inverter away from water, moisture, and flammable materials.
- Connect the inverter only to a 12V DC power source. Do not connect to 24V or higher DC sources.
- Ensure the total power consumption of connected AC devices does not exceed the inverter's continuous output

power (2000W).

- Always disconnect the inverter from the battery before performing any maintenance or cleaning.



Image: Icons illustrating the multiple intelligent protection features of the inverter, including earth leakage, over temperature, overload, low voltage, short circuit, and over voltage protection.

Product Features

- **Pure Sine Wave Output:** Provides stable and clean power, suitable for sensitive electronics including televisions and LCD monitors.
- **Multi-function LCD Display:** Clearly shows input voltage, output voltage, battery capacity, and protection indications for easy monitoring.
- **Efficient Cooling System:** Equipped with two built-in cooling fans to prevent overheating during operation.
- **Comprehensive Protection:** Features input overvoltage, undervoltage, overload, output short circuit, and thermal protection.
- **Versatile Application:** Ideal for powering various devices in home, outdoor, camping, and emergency situations.



Image: A detailed view of the inverter's multi-function LCD display, highlighting its ability to monitor input/output voltage, battery capacity, and power output.



Image: The rear of the inverter, illustrating the two cooling fans for efficient heat dissipation and the battery connection terminals.

Setup

1. **Placement:** Choose a well-ventilated, dry, and cool location for the inverter. Ensure there is sufficient space around the unit for airflow, especially around the cooling fans.
2. **Battery Connection:**
    - Ensure the inverter's power switch is in the "OFF" position.
    - Connect the red cable (positive) to the inverter's positive (+) terminal and then to the positive (+) terminal of your 12V battery.
    - Connect the black cable (negative) to the inverter's negative (-) terminal and then to the negative (-) terminal of your 12V battery.
    - Ensure all connections are tight and secure to prevent loose connections and sparking.
3. **Grounding:** For safety, ensure the inverter is properly grounded. Consult a qualified electrician if unsure.

4. **Initial Check:** Before connecting any AC appliances, double-check all connections.

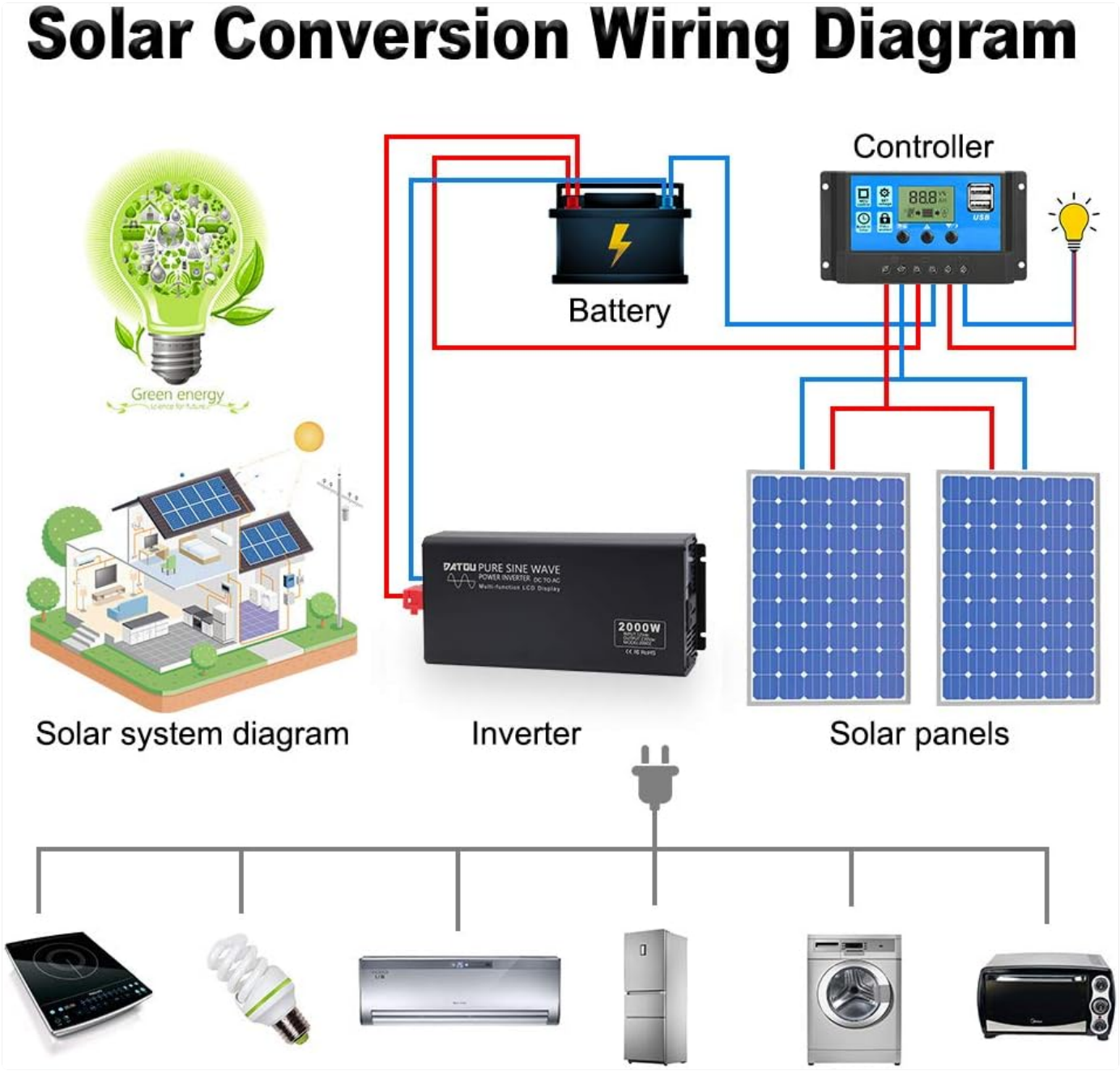


Image: A diagram illustrating a typical solar conversion setup, showing how the inverter connects to a battery, which is charged by solar panels via a charge controller. Various appliances are shown connected to the inverter.

Operating Instructions

1. **Power On:** Once the battery connections are secure, switch the inverter's power button to the "ON" position. The LCD display will illuminate, showing the input voltage and other parameters.
2. **Connect Appliances:** Plug your AC appliances into the inverter's AC outlets. Ensure the total wattage of all connected appliances does not exceed 2000W continuous power.
3. **Monitor Display:** Regularly check the LCD display for input voltage, output power, and battery status to ensure optimal operation and prevent battery over-discharge.
4. **Power Off:** When finished using the inverter, first turn off all connected AC appliances, then switch the inverter's power button to the "OFF" position.

Note: Some appliances with high startup (surge) power requirements may temporarily exceed the inverter's surge capacity (4000W). If an appliance does not start, check its power requirements.



Image: Examples of the inverter's versatility, showing it powering a chainsaw, supporting outdoor grilling, integrating with a solar home system, and operating a rice cooker.

Maintenance

- **Cleaning:** Keep the inverter clean and free from dust and debris. Use a dry, soft cloth for cleaning. Do not use liquid cleaners.
- **Ventilation:** Regularly check that the cooling vents are clear and unobstructed to ensure proper airflow.
- **Connections:** Periodically inspect battery cable connections to ensure they remain tight and free from corrosion.
- **Storage:** If storing the inverter for an extended period, disconnect it from the battery and store it in a cool, dry place.

Troubleshooting

The inverter is equipped with various protective functions indicated by audible alarms. Refer to the table below for common issues and their solutions.

Alarm Indication	Description	Possible Cause	Solution
Buzzer sounds 2 times (1 Hz gap)	Low-voltage alarm	Battery voltage is low.	Recharge or replace the battery. Reduce load.
Buzzer sounds 3 times continuously (1 Hz gaps)	Low voltage protection shutdown	Battery voltage is critically low, inverter has shut down.	Recharge the battery immediately. Inverter will automatically restore output when voltage rises.
Buzzer sounds 4 times (1 Hz gap)	Over-voltage protection	Input voltage is too high.	Check battery/input voltage. Ensure it's within 10-15V DC. Inverter will automatically restore output when voltage reduces.
Buzzer sounds 5 times (1 Hz gap)	Thermal protection	Inverter is overheating (temperature > 80°C).	Reduce load, ensure proper ventilation, allow inverter to cool down.
Automatic shutdown (10S), then 5S recovery, locks after 3 consecutive times	Overload protection	Connected load exceeds 2000W continuous power.	Reduce the total wattage of connected appliances.
Output shutdown (1S) and lock	Short circuit protection	Short circuit detected at the output.	Disconnect all appliances and check for short circuits in wiring or appliances.

SPECIFICATIONS

Parameter	Value
Nominal Input Voltage	12V DC (10~15 VDC)
Nominal Output Voltage	220V AC
No-load Current	0.6A
Continuous Output Power	Up to 2000W
Surge Output Power (0.1 second)	4000W
Input Over-voltage Protection	15 ± 0.3VDC
Input Low Voltage Protection	10 ± 0.3VDC
Overheating Protection Threshold	80 °C
Output Waveform	Pure Sine Wave
Waveform THD	3%
Conversion Efficiency	90%
Cooling Method	Fan cooling
Product Certifications	CE, FCC, RoHS

Parameter	Value
Package Dimensions	46 x 23 x 14 cm
Weight	4 kg



Image: Technical drawing showing the dimensions of the inverter: 410mm length, 175mm height, and 78mm width.

Package Contents

Upon opening the package, you should find the following items:

- 1 x DATOU BOSS 2000W Power Inverter
- 2 x Battery Connection Cables (Red and Black)
- 1 x User Manual (this document)



Image: The product packaging and its contents, including the inverter, battery cables, and user manual.

Warranty and Support

All DATOU BOSS inverters undergo strict inspection before leaving the factory to ensure good performance and complete accessories. For any questions or support, please contact your retailer or the manufacturer directly. Please refer to your purchase documentation for specific warranty terms and conditions.

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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.

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