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DATOUBOSS 24V 3500W Pure Sine Wave Inverter

DATOUBOSS 24V 3500W Pure Sine Wave Inverter User Manual

Model: 24V 3500W Pure Sine Wave Inverter
Brand: DATOUBOSS

1. Product Overview

The DATOUBOSS 24V 3500W Pure Sine Wave Inverter is designed to convert 24V DC battery power into stable 220V-240V AC 50Hz household electricity. It provides a clean and reliable power source, suitable for sensitive electronics and various appliances. With a continuous output of 3500W and a peak power of 7000W, this inverter is an ideal solution for powering devices in vehicles, RVs, during camping trips, or in emergency situations.



Figure 1: The DATOUBOSS 24V 3500W Pure Sine Wave Inverter, shown with the included battery connection cables (red for positive, black for negative) and the wireless remote control. This image provides a comprehensive view of the product and its essential accessories.

2. What's in the Box

Please check the package contents upon receipt to ensure all items are present:

- 1 x DATOUBOSS 3500W Pure Sine Wave Inverter
- 1 x User Manual
- 1 x Wireless Remote Control
- 2 x Power Connection Cables (1 red, 1 black)

3. Key Features

3.1 Pure Sine Wave Output

This inverter produces a pure sine wave output, identical to the power supplied by the public utility grid. This ensures safe and stable operation for all types of electronic devices, including sensitive equipment like laptops, smartphones, and medical devices, without causing damage or interference.



Figure 2: Illustration of the inverter's physical dimensions (14.6 inches length, 9.5 inches width, 3.62 inches height) and a graphical representation of the pure sine wave output, highlighting the clean and stable power form.

3.2 Multi-function LCD Display

The integrated LCD screen provides real-time monitoring of critical operational data, including input voltage, output voltage, power consumption, frequency, and battery level. This allows for convenient and objective assessment of the inverter's status, enhancing user control and safety.



Figure 3: A detailed view of the inverter's rear panel, showing the positive and negative terminals for battery connection, the AC output socket, the main power switch, and the multi-function LCD display. This diagram helps in identifying the various connection points and controls.

3.3 Advanced Safety Protections

The inverter incorporates comprehensive safety features, including soft-start technology and isolated input/output design. It provides protection against undervoltage, overvoltage, overheating, overload, short-circuit, and reverse polarity, ensuring safe and reliable operation for both the inverter and connected devices.



Figure 4: Visual representation of the inverter's robust safety protection system, including icons for short-circuit protection, overvoltage protection, overheating protection, overload protection, undervoltage protection, and low voltage protection.

3.4 Efficient Cooling System

Constructed with a durable aluminum casing, the inverter features an advanced cooling design with intelligent fans. These fans activate only when necessary, efficiently dissipating heat to maintain optimal operating temperatures and extend the lifespan of the unit.



Figure 5: An exploded diagram illustrating the internal fan system of the inverter, demonstrating how the built-in fans effectively circulate air to ensure efficient heat dissipation and maintain optimal performance.

4. Setup Instructions

Follow these steps to properly set up your DATOUBOSS Pure Sine Wave Inverter:

1. **Preparation:** Ensure the inverter is placed on a stable, flat surface in a well-ventilated area, away from direct sunlight, heat sources, and moisture. Ensure there is sufficient space around the inverter for proper airflow.
2. **Battery Connection:** Connect the red positive (+) cable to the positive terminal of your 24V battery and the red positive (+) terminal on the inverter. Connect the black negative (-) cable to the negative terminal of your 24V battery and the black negative (-) terminal on the inverter. Ensure connections are tight and secure to prevent arcing and ensure efficient power transfer.
3. **Grounding:** For safety, ensure the inverter is properly grounded. Connect a grounding wire from the inverter's grounding terminal to a suitable ground point (e.g., vehicle chassis or earth ground).
4. **Initial Power On:** After all connections are secure, switch on the inverter using the main power switch. The LCD

display will illuminate, showing current status.

Important Safety Note: Always connect the battery cables to the inverter before turning on the unit. Ensure correct polarity (positive to positive, negative to negative) to avoid damage to the inverter and battery. Disconnect the inverter from the battery when not in use for extended periods.

5. Operating Instructions

5.1 Powering On/Off

- To turn on the inverter, press the main power switch located on the unit. The LCD screen will activate.
- To turn off the inverter, press the main power switch again.
- The included wireless remote control can also be used to power the inverter on and off from a distance. Ensure the remote is paired according to the instructions in the remote control section of this manual.

5.2 Using the LCD Display

The LCD display provides real-time information:

- **Input Voltage (DC):** Shows the current voltage of the connected 24V battery.
- **Output Voltage (AC):** Displays the inverter's AC output voltage (220V-240V).
- **Output Power (W):** Indicates the real-time power consumption of connected devices.
- **Frequency (Hz):** Shows the output frequency (50Hz).
- **Battery Level:** Provides an approximate indication of the battery's charge level.

5.3 Connecting Appliances

Once the inverter is powered on, plug your AC appliances into the EU socket on the inverter. Ensure the total continuous power draw of your appliances does not exceed 3500W. For inductive loads (e.g., motors, refrigerators), consider their startup surge (peak power) which should not exceed 7000W.



Figure 6: A visual guide showcasing a variety of common household and portable electronic devices that can be safely powered by the DATOUBOSS inverter, including tablets, smartphones, microwaves, laptops, electric drills, kettles, hairdryers, chainsaws, and portable refrigerators.



Figure 7: This image demonstrates the inverter's capability to power heavy-duty tools such as electric chainsaws, drills, cutting machines, and circular saws, making it suitable for demanding outdoor or construction work environments.

5.4 Recommended Uses

The DATOUBOSS inverter is versatile and can be used in various settings:

- **Vehicle Use:** Ideal for cars, trucks, and RVs to power electronics on the go.
- **Home/Office Use:** Can serve as a backup power source for essential devices during outages.
- **Camping & Outdoor Activities:** Provides convenient AC power for lights, small appliances, and charging devices in remote locations.
- **Emergency Situations:** A reliable power solution during blackouts or natural disasters.



Figure 8: A collage illustrating diverse applications of the inverter, including camping, outdoor office setups, emergency power, field work, recreational activities, and as a solution during power outages, emphasizing its adaptability.

6. Maintenance

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

- **Cleaning:** Regularly wipe the exterior of the inverter with a dry, soft cloth. Do not use liquid cleaners or solvents. Ensure ventilation openings are free from dust and debris.
- **Fan Inspection:** Periodically check the cooling fans for any obstructions. If the fans become noisy or stop working,

contact customer support.

- **Connection Check:** Routinely inspect all cable connections (battery and AC output) to ensure they remain tight and free from corrosion.
- **Storage:** When storing the inverter for extended periods, disconnect it from the battery and store it in a cool, dry place away from direct sunlight and extreme temperatures.

7. Troubleshooting

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

Problem	Possible Cause	Solution
Inverter does not turn on	Loose battery connection; Low battery voltage; Blown fuse; Inverter switch off	Check battery cable connections; Recharge or replace battery; Check and replace internal fuses (if accessible and safe); Ensure power switch is ON.
No AC output	Overload; Overheating; Low battery voltage; Short circuit in appliance	Reduce load; Allow inverter to cool down; Recharge battery; Check appliance for short circuit.
LCD display shows error code	Specific protection activated (e.g., OV for overvoltage, UV for undervoltage, OH for overheating, OL for overload, SC for short circuit)	Refer to the specific error code in the full manual (if available) or contact customer support. Address the underlying issue (e.g., reduce load, check voltage).
Fans are constantly running or very loud	High internal temperature; Dust accumulation in fans	Ensure proper ventilation; Clean fan vents; Reduce load if operating at high capacity for extended periods.

If the problem persists after attempting these solutions, please contact DATOUBOSS customer support for further assistance.

8. Specifications

Feature	Specification
Brand	DATOUBOSS
Model Name	24V 3500W Pure Sine Wave Inverter
Input Voltage	24 Volts DC
Output Voltage	220-240 Volts AC
Continuous Power	3500 Watts
Peak Power	7000 Watts
Output Frequency	50 Hz
Conversion Efficiency	> 95%

Feature	Specification
Total Number of Outlets	2 (EU Sockets)
Product Dimensions (L x W x H)	46L x 33W x 19H cm (approx. 18.1 x 13 x 7.5 inches)
Recommended Uses	Office, Home, Vehicle
Power Source	Battery Powered

9. Warranty and Support

DATOUBOSS is committed to providing high-quality products and excellent customer service.

- **Warranty:** The inverter comes with a 24-month manufacturer's warranty.
- **Return Policy:** Enjoy a 30-day unconditional return guarantee.
- **Customer Support:** DATOUBOSS offers 24-hour professional customer support. For any inquiries or assistance, please refer to the contact information provided in your product packaging or on the official DATOUBOSS website.
- **Certifications:** This product is CE, FCC, and RoHS certified, ensuring compliance with international safety and environmental standards. It also carries product liability insurance from Aig, providing additional peace of mind.

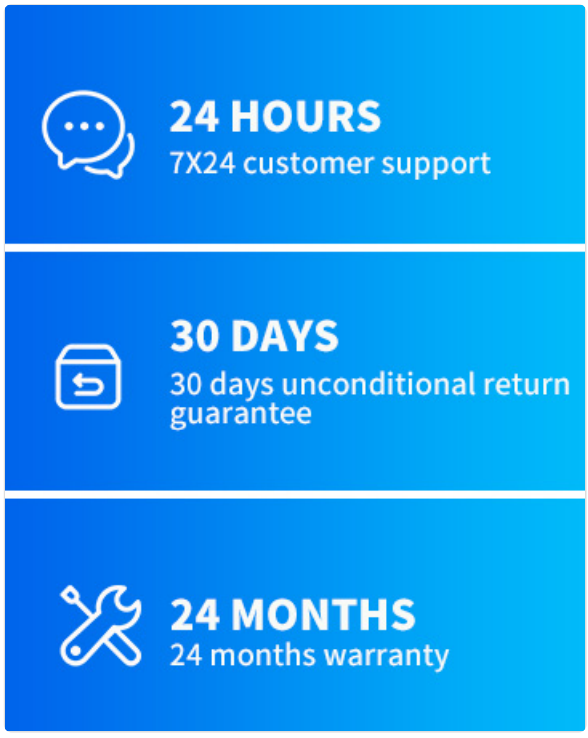


Figure 9: An illustration summarizing the customer support and warranty benefits, including 24-hour support, a 30-day unconditional return guarantee, and a 24-month warranty, highlighting DATOUBOSS's commitment to customer satisfaction.

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