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› DATOUBOSS 1200W Pure Sine Wave Inverter User Manual (Model DNG12V1200W-EU)

DATOUBOSS DNG12V1200W-EU

DATOUBOSS 1200W Pure Sine Wave Inverter User Manual

Model: DNG12V1200W-EU

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your DATOUBOSS 1200W Pure Sine Wave Inverter. Please read it thoroughly before installation and use, and retain it for future reference.

The DATOUBOSS 1200W Pure Sine Wave Inverter converts 12V DC battery power into 230V AC household power, suitable for various electronic devices and appliances. Its pure sine wave output ensures compatibility with sensitive electronics, providing stable and clean power comparable to the utility grid.

2. SAFETY INSTRUCTIONS

WARNING: Failure to follow these safety instructions may result in electric shock, fire, serious injury, or death.

- **Ventilation:** Ensure adequate ventilation around the inverter. Do not block ventilation openings.
- **Environment:** Operate the inverter in a dry, well-ventilated area, away from direct sunlight, heat sources, flammable materials, and moisture.
- **Connections:** Always connect the inverter to a 12V DC power source. Ensure all connections are tight and correct polarity is observed (positive to positive, negative to negative). Loose connections can cause overheating.
- **Grounding:** The inverter should be properly grounded.
- **Load Capacity:** Do not exceed the inverter's rated continuous power output of 1200W. Overloading can damage the inverter and connected devices.
- **Children:** Keep the inverter out of reach of children.
- **Maintenance:** Do not attempt to disassemble or modify the inverter. Refer all servicing to qualified personnel.

- **Emergency:** In case of smoke, unusual odors, or abnormal operation, immediately disconnect the inverter from the power source and connected devices.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- DATOUBOSS Pure Sine Wave Inverter (1 unit)
- Battery Connection Cables (2 units)
- Instruction Manual (1 unit)

4. PRODUCT FEATURES

- **Pure Sine Wave Output:** Provides stable and clean AC power, ideal for sensitive electronics.
- **High Power Output:** 1200W continuous power, 2500W peak power.
- **High Conversion Efficiency:** Greater than 92.8% efficiency, reducing power loss.
- **LCD Display:** Real-time display of input voltage, output voltage, power, frequency, and battery level.
- **Comprehensive Protection:** Includes under-voltage, over-voltage, over-temperature, overload, short-circuit, and reverse polarity protection.
- **Soft-Start Technology:** Enables smooth startup for inductive loads.
- **Efficient Cooling System:** Integrated fan for rapid heat dissipation.
- **USB Charging Port:** 5V 2.1A USB output for charging mobile devices.
- **Durable Construction:** Robust aluminum casing for physical protection and enhanced cooling.

INTRODUCTION TO THE SIDE FUNCTIONS OF THE PRODUCT

The products are strictly tested and of high quality



Image: Front view of the DATOU BOSS 1200W Pure Sine Wave Inverter, showing the main unit.

COMPREHENSIVE PROTECTION

All-round protection for your appliances and batteries



Image: Diagram illustrating the comprehensive protection features of the inverter, including under-voltage, over-voltage, over-temperature, overload, short-circuit, and leakage protection.

5. SETUP

1. **Placement:** Choose a dry, cool, and well-ventilated location for the inverter. Ensure there is sufficient space around the unit for airflow, especially around the fan openings.

2. **Battery Connection:**

- Ensure the inverter's power switch is in the "OFF" position.
- Connect the red battery cable to the positive (+) terminal of the inverter and the positive (+) terminal of your 12V battery.
- Connect the black battery cable to the negative (-) terminal of the inverter and the negative (-) terminal of your 12V battery.
- Tighten all connections securely to prevent loose contacts, which can cause sparks or overheating.

3. **Grounding:** Connect the inverter's grounding terminal to a proper earth ground.

4. **Initial Check:** After connecting, double-check all connections for correct polarity and tightness.

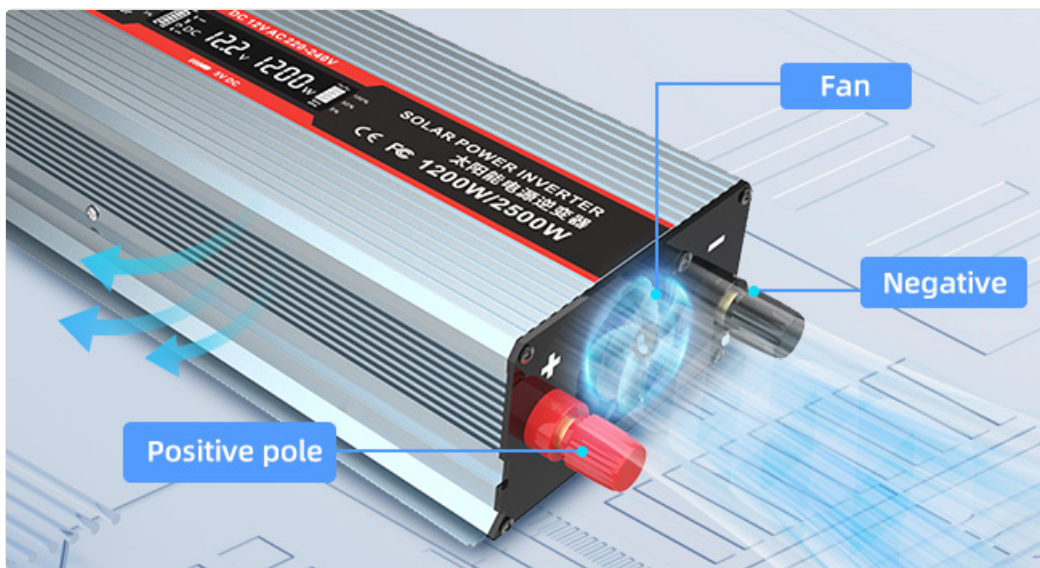


Image: Rear view of the inverter showing the positive and negative battery terminals and the cooling fan. Ensure proper connection of battery cables.

A promotional banner for after-sales service. On the left, a woman in a white shirt and headset smiles. The banner features three blue boxes with white icons and text: '24 HOURS 7X24 customer support' (with a speech bubble icon), '30 DAYS 30 days unconditional return' (with a return icon), and '24 MONTHS 24 months' (with a wrench and screwdriver icon). Below the first box is a white box with a blue headset icon and the text 'After-sales Service Welcome to consult with us if you have any problems before or after the sale.' On the right, a grid of nine small photos shows various people using the product. At the bottom right, three blue boxes display '100+ Countries', '1000+ Tests', and '100000+ Users'.

Image: Diagram showing compatibility with various 12V battery types, including AGM, GEL, FLD, and Li-ion batteries.

6. OPERATING INSTRUCTIONS

1. **Powering On:**

- Once the inverter is securely connected to the battery, switch the inverter's power button to the

"ON" position.

- The LCD display will illuminate, showing the input voltage, output voltage, and other operational parameters.

2. Connecting AC Devices:

- Plug your 230V AC appliances into the European standard AC outlet on the inverter.
- Ensure the total power consumption of all connected devices does not exceed 1200W.
- For inductive loads (e.g., motors, compressors), consider their startup surge power, which can be significantly higher than their running power. The inverter has a 2500W peak power capacity.

3. Using the USB Port:

- Connect your USB-powered devices to the 5V 2.1A USB port for charging.

4. Monitoring the LCD Display:

- The LCD provides real-time data:
 - **DC Input Voltage:** Shows the battery voltage.
 - **AC Output Voltage:** Displays the 230V AC output.
 - **Output Power:** Indicates the current power consumption of connected devices.
 - **Frequency:** Typically 50Hz.
 - **Battery Level Indicator:** Provides an approximate battery charge status.

5. Powering Off:

- Before disconnecting the inverter, switch the inverter's power button to the "OFF" position.
- Disconnect all AC devices, then disconnect the battery cables.



Image: Front view of the inverter, highlighting the power switch, USB port, European AC outlet, and the LCD display for monitoring.

USB INTERFACE

CONTINUOUS 1200W OUTPUT



Image: Close-up of the USB interface and the continuous 1200W output capability, showing various appliances that can be powered.

7. MAINTENANCE

- **Cleaning:** Regularly clean the exterior of the inverter with a dry, soft cloth. Do not use liquid cleaners or solvents.
- **Ventilation:** Ensure the cooling fan and ventilation openings are free from dust and debris to maintain optimal airflow.
- **Connections:** Periodically check battery cable connections for tightness. Loose connections can lead to power loss or overheating.
- **Storage:** If storing the inverter for an extended period, disconnect it from the battery and store it in a cool, dry place.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No power output / Inverter not turning on	<ul style="list-style-type: none"> Loose battery connections Low battery voltage Inverter switch is OFF Blown fuse (internal) 	<ul style="list-style-type: none"> Check and tighten battery cables. Recharge or replace the battery. Turn the inverter switch to "ON". Contact customer support for fuse replacement.
Overload alarm / Inverter shuts down	<ul style="list-style-type: none"> Connected load exceeds 1200W continuous power. High startup surge from inductive load. 	<ul style="list-style-type: none"> Reduce the total load by disconnecting some appliances. Ensure the peak power of inductive loads does not exceed 2500W. Restart the inverter.
Over-temperature alarm / Inverter shuts down	<ul style="list-style-type: none"> Poor ventilation Ambient temperature too high Overload condition 	<ul style="list-style-type: none"> Ensure adequate airflow around the inverter. Move the inverter to a cooler environment. Reduce the connected load. Allow the inverter to cool down before restarting.
Low battery voltage alarm	<ul style="list-style-type: none"> Battery charge is low. 	<ul style="list-style-type: none"> Recharge the 12V battery. Disconnect non-essential loads.

9. SPECIFICATIONS

Feature	Specification
Brand	DATOUBOSS
Model Number	DNG12V1200W-EU
Input Voltage	12V DC
Output Voltage	230V AC
Continuous Power	1200W
Peak Power	2500W
Output Waveform	Pure Sine Wave
Conversion Efficiency	>92.8%
USB Output	5V 2.1A
Dimensions (L x W x H)	35 cm x 18 cm x 10 cm

Feature	Specification
Color	Grey

Efficient and stable output

Inverter pure sine wave technology significantly reduces the operating noise of electrical equipment and extends the service life of the equipment, ensuring stable and reliable power output

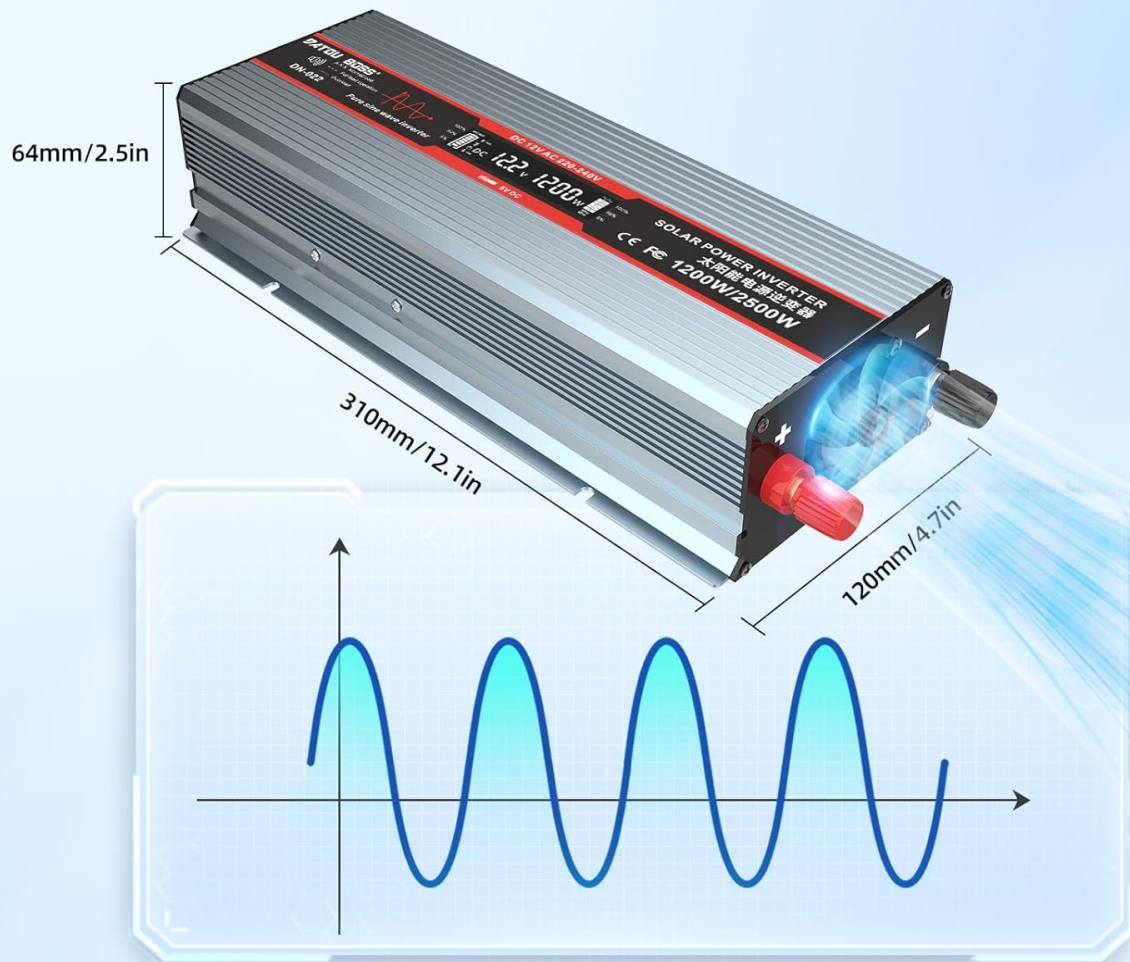


Image: Diagram showing the physical dimensions of the DATOUBOSS 1200W Pure Sine Wave Inverter.

10. WARRANTY AND SUPPORT

The DATOUBOSS 1200W Pure Sine Wave Inverter comes with a **12-month manufacturer's warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. For technical assistance, troubleshooting, or warranty claims, please contact DATOUBOSS customer support. Our professional support team is available 24 hours a day to assist you. Please refer to your purchase documentation or the DATOUBOSS official website for specific contact details.

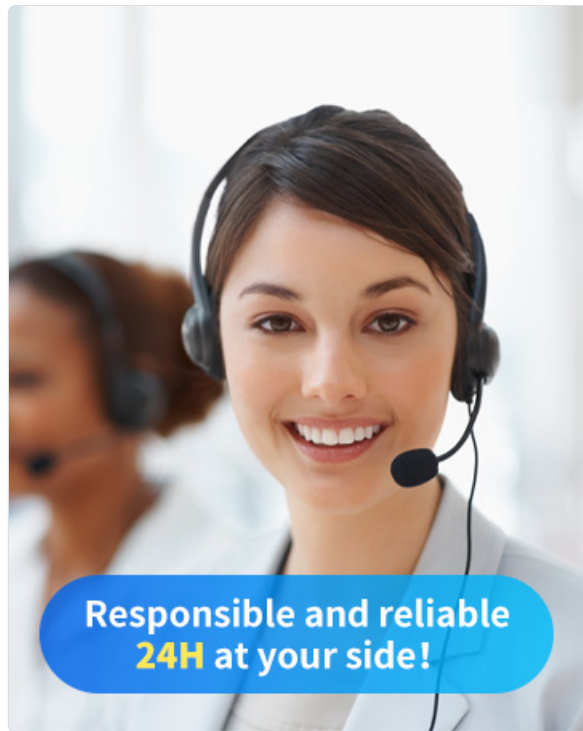


Image: A customer support representative, symbolizing the available 24-hour support.