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› DATOUBOSS 1200W Pure Sine Wave Power Inverter User Manual

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Model: 1200W Pure Sine Wave Power Inverter

1. INTRODUCTION

This user manual provides detailed instructions for the safe and efficient operation of your DATOUBOSS 1200W Pure Sine Wave Power Inverter. This device converts 12V DC power from a battery into 120V AC power, suitable for a wide range of electronic devices and appliances. Please read this manual thoroughly before installation and use.

2. PRODUCT OVERVIEW

The DATOUBOSS 1200W Pure Sine Wave Power Inverter is designed for reliable power conversion, featuring dual AC outlets, USB, and Type-C ports. It offers comprehensive protection features and real-time monitoring for various applications, including vehicles, RVs, homes, and off-grid solar systems.



Figure 2.1: DATOUBOSS 1200W Pure Sine Wave Power Inverter and included accessories (battery cables, wired remote control).

3. WHAT'S IN THE BOX

- User Manual
- 2 x 20-Inch Battery Cables (Red for Positive, Black for Negative)
- 1 x 19.58 ft Wired Remote Control
- 1 x 1200W Pure Sine Wave Inverter

4. KEY FEATURES

- **1200W Continuous Pure Sine Wave Output:** Provides stable and clean power, ideal for sensitive electronics.
- **2400W Peak Surge Capability:** Handles high startup loads from various appliances.

- **Multi-Battery Compatibility:** Supports Lithium (LI), Sealed Lead Acid (SLA), Gel, Flooded (FLD), and Absorbent Glass Mat (AGM) batteries.
- **Comprehensive Protection:** Includes short circuit, input over-voltage/under-voltage, output short-circuit, overload, over-current, and over-temperature protection.
- **Durable Construction:** Aluminum housing protects against physical damage.
- **Efficient Cooling:** Built-in cooling fan ensures silent operation and prevents overheating.
- **Real-Time Monitoring:** LED screen and indicator lights display voltage, output power, and fault codes.
- **Wired Remote Control:** 19.58 ft remote for convenient on/off operation from a distance.
- **Automatic Shutdown:** Safety feature for incorrect power connection or short circuit.
- **Versatile Applications:** Suitable for vehicle electronics, small appliances, laptops, smartphones, TVs, and power tools in cars, RVs, homes, trucks, and off-grid solar setups.

5. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions may result in serious injury or property damage.

- Always connect the inverter to a 12V DC power source. Do not connect to 24V or higher DC sources.
- Ensure proper ventilation around the inverter. Do not block cooling vents.
- Do not expose the inverter to water, rain, snow, or spray.
- Do not operate the inverter if it has been dropped or damaged.
- Keep children away from the inverter.
- Ensure all connections are tight and secure to prevent overheating and arcing.
- Do not connect the inverter to AC distribution wiring.
- Always disconnect the battery before performing any maintenance or troubleshooting.
- Consult a qualified electrician if you are unsure about any installation steps.

6. SETUP AND INSTALLATION

6.1 Component Identification

SIDE PANEL PORTS INTRODUCTION

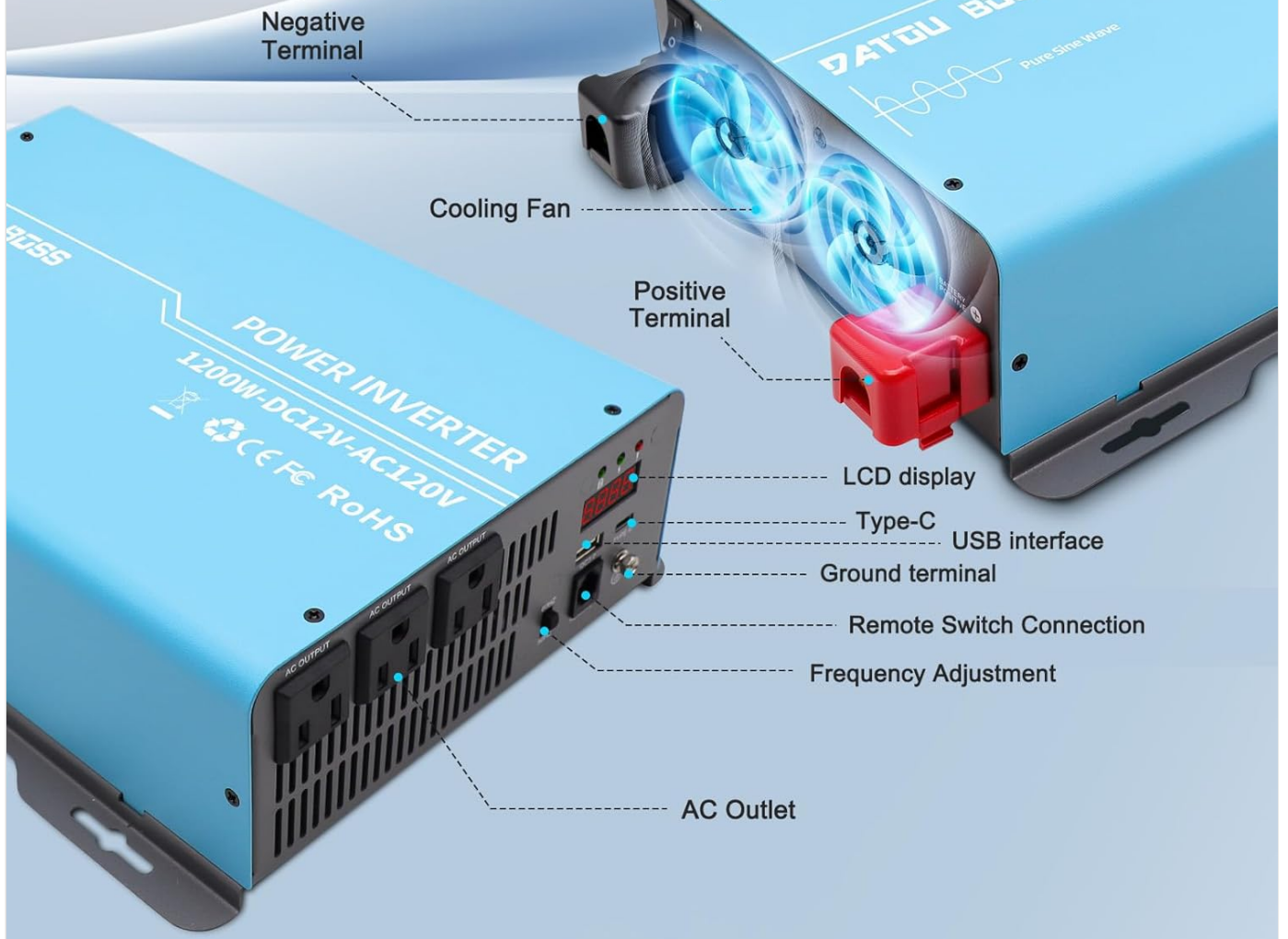


Figure 6.1: Inverter side panel showing negative terminal, cooling fan, positive terminal, LCD display, Type-C port, USB interface, ground terminal, remote switch connection, frequency adjustment, and AC outlets.

Familiarize yourself with the inverter's ports and indicators before proceeding with installation.

6.2 Connecting the Inverter to a Battery

Proper battery connection is crucial for safe and efficient operation. Use the provided 20-inch battery cables.

1. Ensure the inverter is turned OFF.
2. Connect the **red** battery cable to the **positive (+) terminal** of the inverter. Secure tightly.
3. Connect the other end of the **red** cable to the **positive (+) terminal** of your 12V battery. Secure tightly.
4. Connect the **black** battery cable to the **negative (-) terminal** of the inverter. Secure tightly.
5. Connect the other end of the **black** cable to the **negative (-) terminal** of your 12V battery. Secure tightly.
6. Ensure all connections are firm and free from corrosion.

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Video 6.2.1: Demonstration of connecting the power inverter to a 12V battery. This video shows the proper steps for securing the positive

and negative battery cables to both the inverter and the battery terminals.

6.3 Connecting the Wired Remote Control

The wired remote control allows for convenient operation of the inverter from a distance.

1. Locate the remote switch connection port on the inverter (refer to Figure 6.1).
2. Plug the cable from the wired remote control into this port.
3. The remote control features ON/OFF switches and indicator lights for inverter status.

6.4 Grounding the Inverter

For safety, it is recommended to properly ground the inverter. Connect a grounding wire (not included) from the ground terminal on the inverter to a suitable earth ground point (e.g., vehicle chassis, ground rod).

6.5 Connecting AC Loads

Once the inverter is connected to the battery, you can plug your AC devices into the AC outlets on the inverter. Ensure the total wattage of your devices does not exceed the inverter's continuous power rating (1200W).



Figure 6.5.1: The inverter can power various household appliances such as CPAP machines (40W), refrigerators (60W), TVs (150W), induction cookers (600W), and ovens (1200W).



Figure 6.5.2: The inverter is suitable for powering power tools like chainsaws and drills in a workshop environment.

7. OPERATING THE INVERTER

7.1 Powering On/Off

To turn on the inverter, press the ON button on the inverter unit or the wired remote control. The LED screen will illuminate, and indicator lights will show the status. To turn off, press the OFF button.

7.2 Real-Time Monitoring

The inverter features an LED screen that displays real-time information, including input voltage, output power, and fault codes. Three indicator lights provide quick visual status updates.

Pure Sine Wave Technology Can Withstand Strong Loads

Inverter conversion efficiency is **>95%**, which reduces the conversion loss during long-term use and can be used for a very long time.

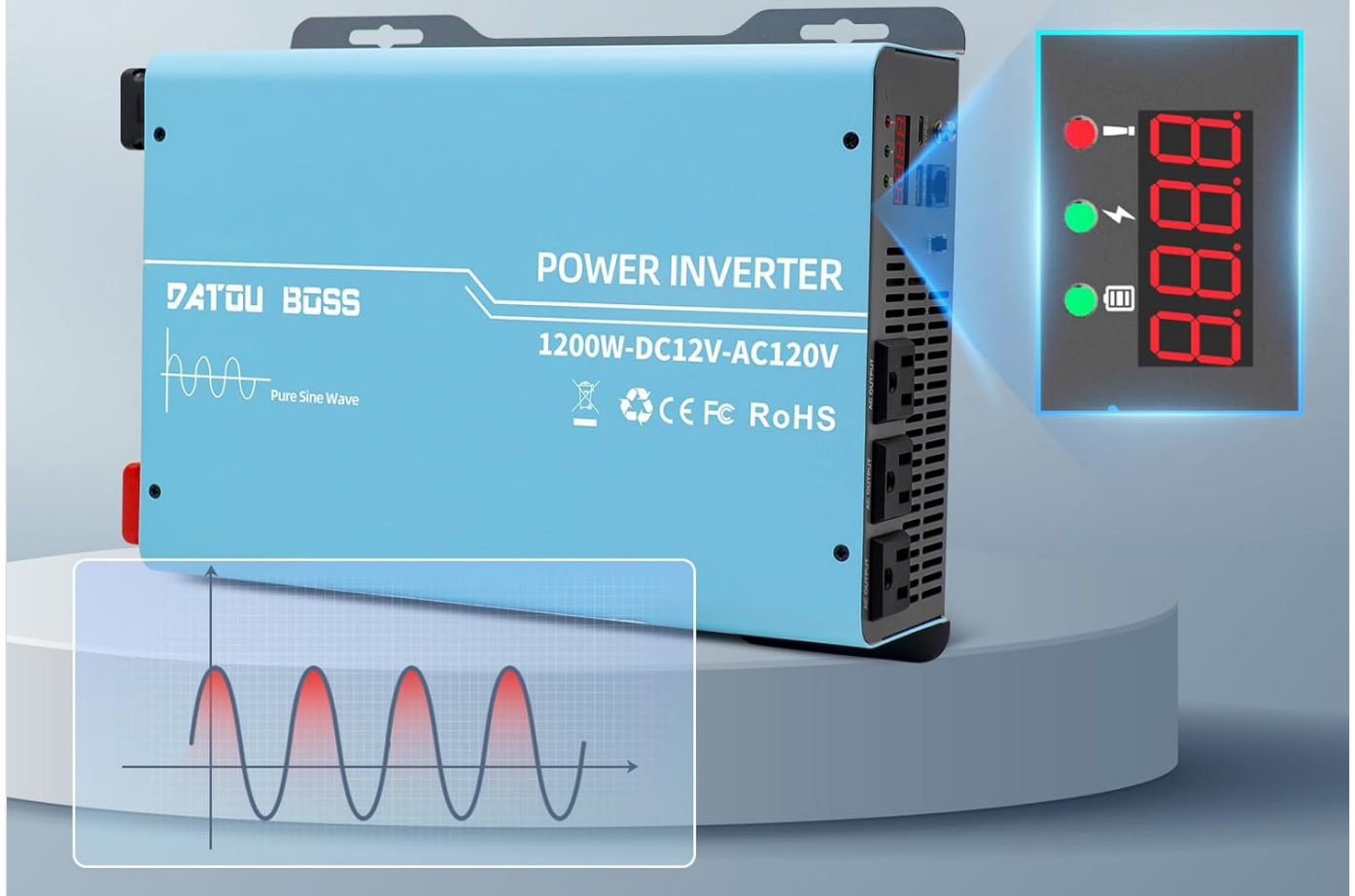


Figure 7.2.1: The inverter's LED display provides real-time monitoring of voltage, output power, and fault codes, ensuring safe operation and extending product life.

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Video 7.2.2: Demonstration of the power inverter in operation, showing the real-time monitoring display and its ability to power various devices, including a heater, air fryer, and kettles.

8. MAINTENANCE

- Keep the inverter clean and free from dust and debris. Use a dry cloth for cleaning.
- Regularly check all cable connections to ensure they are tight and secure. Loose connections can cause overheating.
- Ensure the cooling fans are not obstructed and are operating correctly.
- Store the inverter in a cool, dry place when not in use.

9. TROUBLESHOOTING

Common Issues and Solutions

Problem	Possible Cause	Solution
Inverter does not turn on.	Loose battery connections, low battery voltage, blown fuse, internal fault.	Check battery cable connections. Recharge or replace battery. Check for blown fuses (if accessible). Contact customer support if fault persists.
No AC output.	Overload, over-temperature, short circuit, low battery voltage.	Reduce load. Allow inverter to cool down. Check for short circuits in connected devices. Recharge battery.
Cooling fan runs frequently/loudly.	High ambient temperature, heavy load, obstructed vents.	Ensure adequate ventilation. Reduce load. Clean vents. This is normal under heavy load or high temperatures.
Inverter shuts down automatically.	Protection activated (overload, over-temp, low voltage, incorrect connection).	Identify and resolve the cause of the protection activation (refer to LED fault codes). Disconnect and reconnect after resolving issue.

10. SPECIFICATIONS

Feature	Detail
Model Name	1200W Power Inverter 12V to 110V
Wattage (Continuous)	1200 watts
Wattage (Peak)	2400 watts
Input Voltage	12V DC
Output Voltage	110V/120V AC (Pure Sine Wave)
Power Source	Battery Powered
Dimensions (L x W x H)	12.79 x 8.97 x 3.07 inches (approx. 32.5 x 22.8 x 7.8 cm)
Item Weight	7.81 pounds
Manufacturer	DATOUBOSS
Country of Origin	China



Figure 10.1: Physical dimensions of the inverter and examples of devices it can power.

11. WARRANTY AND SUPPORT

DATOUBOSS products are backed by a comprehensive 1-year warranty covering quality issues. For technical support, troubleshooting assistance, or warranty claims, please contact DATOUBOSS customer service. Refer to the product packaging or the official DATOUBOSS website for contact information.



Professional After-sales Service
24-hour online service

Figure 11.1: DATOUBOSS offers professional after-sales service and 24-hour online support.