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DATOUBOSS Szary 1500W 12V

DATOUBOSS Pure Sine Wave Inverter User Manual

MODEL: SZARY 1500W 12V

Brand: DATOUBOSS

1. INTRODUCTION

Thank you for choosing the DATOUBOSS Pure Sine Wave Inverter. This device is designed to convert 12V DC power from batteries into 230V AC power, suitable for a wide range of household appliances, tools, and electronic devices. With a continuous output of 1500W and a peak power of 3000W, it provides a reliable and clean power supply for your home, caravan, or solar installations.

Please read this manual carefully before operating the inverter to ensure safe and efficient use. Keep this manual for future reference.

Important Safety Information

- Do not expose the inverter to rain, moisture, or extreme temperatures.
- Ensure proper ventilation around the inverter to prevent overheating.
- Connect the inverter only to a 12V DC power source.
- Do not exceed the rated power output of 1500W continuous and 3000W peak.
- Always disconnect the power source before performing any maintenance or troubleshooting.
- Keep out of reach of children.

2. PRODUCT OVERVIEW

The DATOUBOSS Pure Sine Wave Inverter features a robust design with multiple input/output options and an intuitive LCD display for monitoring.

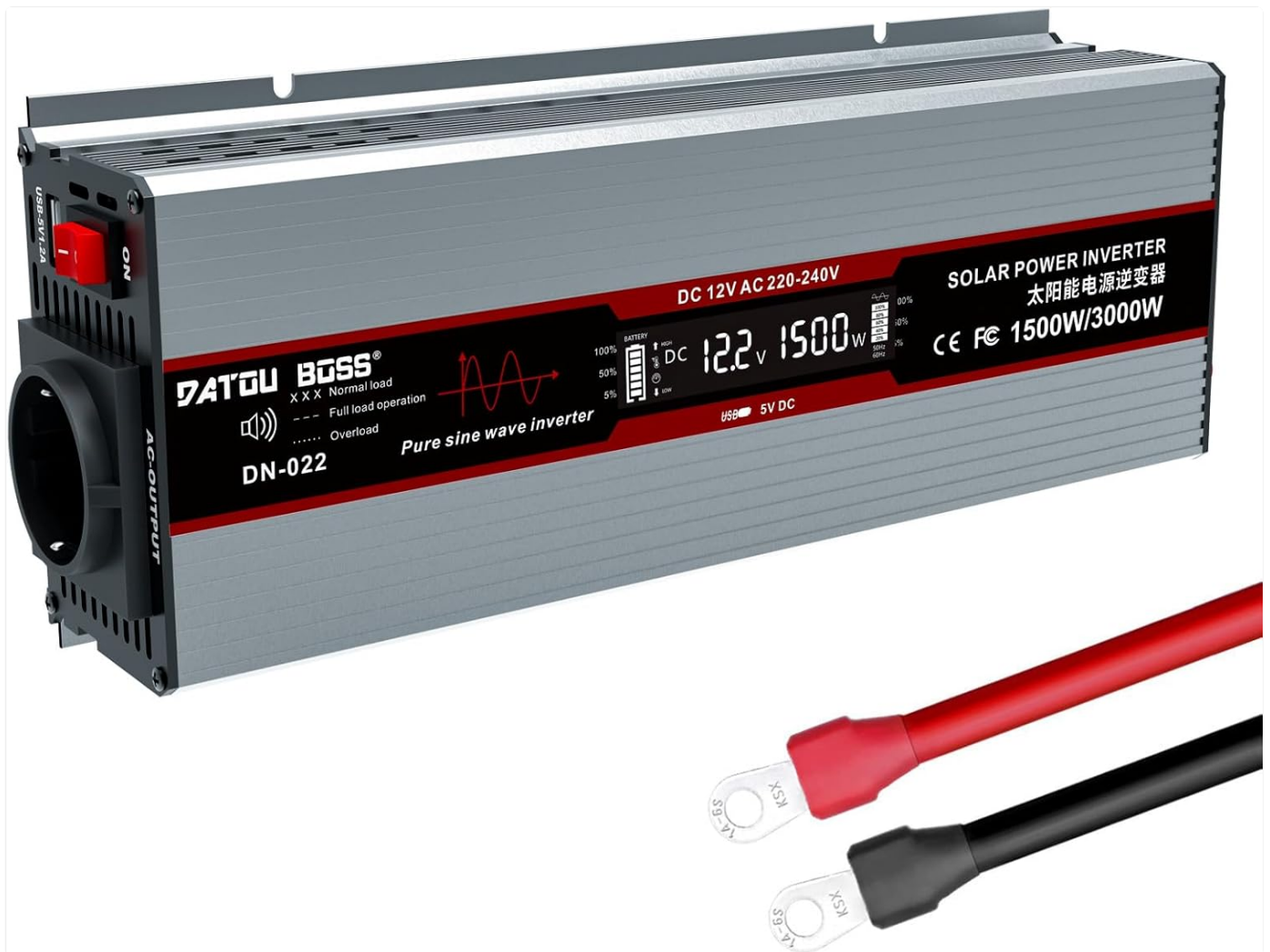


Figure 2.1: DATOUBOSS Pure Sine Wave Inverter with power cables.

This image shows the main unit of the DATOUBOSS Pure Sine Wave Inverter, a silver-grey rectangular device with a black front panel. It features an AC output socket, a USB port, and an ON/OFF switch on one end. The top surface has a digital LCD screen displaying power information. Red and black power cables are shown alongside the inverter, indicating its connection points.

Components and Features:

- **Power Switch:** Controls the ON/OFF state of the inverter.
- **USB Ports (2.1A):** For charging USB-powered devices.
- **AC Socket:** European standard outlet for connecting 230V AC appliances.
- **LCD Display:** Provides real-time information on inverter status.
- **Cooling Fans:** Integrated fans for efficient heat dissipation.
- **Positive and Negative Terminals:** For connecting to a 12V DC battery.

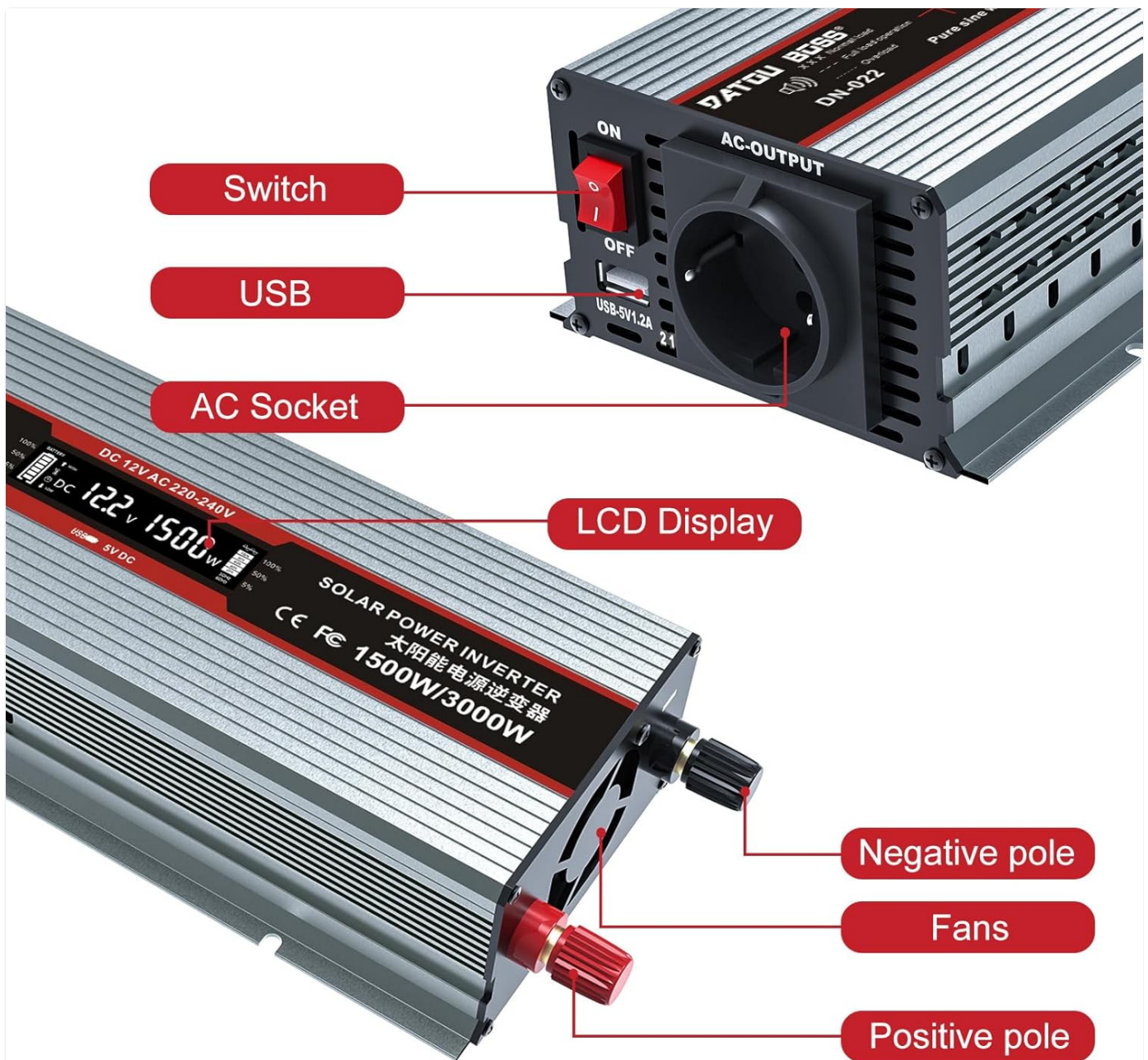


Figure 2.2: Key components of the inverter.

This image highlights the various parts of the inverter with labels. On the front, the red switch is labeled "Switch", the USB port is labeled "USB", and the AC outlet is labeled "AC Socket". On the rear, the red terminal is labeled "Positive pole", the black terminal is labeled "Negative pole", and the fan vents are labeled "Fans". The LCD screen is also clearly indicated as "LCD Display".

LCD Display Information:

The LCD display provides comprehensive operational data:

- **Internal Temperature:** Shows the current operating temperature of the inverter.
- **Input/Output Voltage:** Displays the DC input voltage and AC output voltage.
- **Protection Symbols:** Indicates active protection modes (e.g., overload, over-temperature).
- **Battery Capacity:** Shows the remaining battery charge level.
- **Working Status:** Indicates if the inverter is operating normally or in a fault state.
- **Output Power:** Displays the current power consumption of connected devices.
- **Frequency:** Shows the output AC frequency (e.g., 50Hz/60Hz).

MULTIFUNCTION LCD DISPLAY



Internal temperature
Input/output voltage
Protection symbols
Battery capacity
Working status
Output power
Frequency

Figure 2.3: Multifunction LCD Display details.

This image provides a close-up of the inverter's LCD display, showing various parameters it can monitor. These include internal temperature, input/output voltage, protection symbols, battery capacity, working status, output power, and frequency. The display clearly shows "DC 12.2V 1500W" indicating input voltage and output power, along with a battery level indicator and frequency selection.

3. SETUP

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

- 1. Choose a Location:** Select a dry, well-ventilated area away from direct sunlight, heat sources, and flammable materials. Ensure there is sufficient space around the inverter for air circulation, especially around the cooling fans.
- 2. Prepare the Battery:** Ensure your 12V DC battery is fully charged and in good condition. Use appropriate battery cables (included) for connection.
- 3. Connect DC Cables:**
 - Connect the red cable to the positive (+) terminal of the inverter and the positive (+) terminal of the battery.
 - Connect the black cable to the negative (-) terminal of the inverter and the negative (-) terminal of the battery.
 - Ensure all connections are tight and secure to prevent loose connections and sparking.

4. **Initial Power On:** Once the DC connections are secure, switch the inverter's power button to the "ON" position. The LCD display should light up, showing the input voltage and other parameters.
5. **Connect AC Appliances:** With the inverter powered on, you can now plug your 230V AC appliances into the AC socket. Ensure the total power consumption of your appliances does not exceed 1500W.
6. **Connect USB Devices:** Plug your USB-powered devices into the USB ports for charging.

Note: For optimal performance and safety, it is recommended to use thick, high-quality cables for battery connections to minimize voltage drop and heat generation.

4. OPERATING INSTRUCTIONS

Operating the DATOUBOSS inverter is straightforward. Pay attention to the LCD display for real-time status updates.

Turning On/Off:

- To turn on, flip the red power switch to the "ON" position. The LCD will illuminate.
- To turn off, flip the red power switch to the "OFF" position. The LCD will turn off.

Monitoring with LCD Display:

The LCD display provides critical information for monitoring the inverter's performance and the connected power source:

- Observe the **Input Voltage (DC V)** to ensure your battery is providing adequate power (typically around 12V).
- Check the **Output Power (W)** to see the real-time power consumption of your connected devices.
- Monitor the **Battery Capacity** indicator to know when your battery needs recharging.
- If any **Protection Symbols** appear, refer to the Troubleshooting section.
- When you turn on the inverter for a second, the current ambient temperature is displayed.

Pure Sine Wave Output:

This inverter produces a pure sine wave output, which is identical to the power supplied by the utility grid. This makes it safe for sensitive electronics like laptops, medical equipment, and audio systems, reducing noise and ensuring stable operation.

Pure sine waves

ensure clean power supply and low interference on your device



Figure 4.1: Pure sine wave benefits and applications.

This image illustrates the concept of a pure sine wave, emphasizing its clean power supply and low interference. It also shows various application scenarios for the inverter, including use in a garden setting, for work (e.g., with power tools), in a caravan, and for office work (e.g., powering a laptop).

5. MAINTENANCE

Proper maintenance ensures the longevity and reliable operation of your inverter.

- **Cleaning:** Regularly wipe the exterior of the inverter with a soft, dry cloth. Do not use liquid cleaners or solvents. Ensure the cooling vents are free from dust and debris.
- **Connections:** Periodically check all electrical connections (DC input and AC output) to ensure they are tight and free from corrosion.
- **Ventilation:** Always ensure the inverter has adequate ventilation. Do not block the cooling fans or vents.
- **Storage:** If storing the inverter for an extended period, disconnect it from the battery and store it in a cool, dry place.

6. TROUBLESHOOTING

The DATOUBOSS inverter is equipped with multiple protection functions to ensure safe operation. If you encounter an issue, refer to the table below.



Figure 6.1: Multilayer safety protection.

This image illustrates the various safety protection features built into the inverter. These include overload protection with automatic switch-off, over-temperature protection with automatic switch-off, low battery voltage protection with automatic switch-off, overvoltage protection with automatic shutdown, and output short-circuit protection with automatic shut down. These features enhance the safety and longevity of the device.

Problem	Possible Cause	Solution
Inverter does not turn on.	No DC input power; Loose battery connections; Low battery voltage.	Check battery connections and ensure they are secure. Recharge or replace the battery if voltage is too low.
Overload protection activated (alarm sounds, inverter shuts down).	Connected appliance power exceeds 1500W continuous or 3000W peak.	Disconnect the appliance. Reduce the load to within the inverter's capacity. Restart the inverter.
Over-temperature protection activated.	Poor ventilation; High ambient temperature; Excessive load.	Ensure adequate ventilation around the inverter. Reduce load. Allow inverter to cool down before restarting.
Low voltage alarm/shutdown.	Battery voltage is too low.	Recharge the battery immediately.
No AC output.	Inverter in protection mode; Faulty appliance; Loose AC connection.	Check LCD for protection symbols. Test appliance with another power source. Ensure AC plug is fully inserted.

Protect and extend the life of your electronics



Figure 6.2: Examples of compatible applications.

This image categorizes the types of electronics and tools that can be powered by the inverter. These include household applications (TV, microwave, fan, fridge), entertainment electronics (laptop, camera, drones), and tools (drill, pump). A warning note indicates that the maximum operating power must not exceed 3000 watts for this appliance.

7. SPECIFICATIONS

Feature	Specification
Brand	DATOUBOSS
Model Name	FBM-0Y2-DNG-1500W-EU-1
Item Model Number	Szary 1500W 12V
Color	Black
Input Voltage	10.5 Volts (DC)
Output Power (Continuous)	1500 Watts
Peak Power	3000 Watts
Output Voltage	230V AC
Output Waveform	Pure Sine Wave
USB Output	2.1A
Number of AC Outlets	1
Power Source	Battery Powered
Recommended Uses	Home, Caravans, Solar Installations
Efficiency	A+
Compatible Devices	MPPT, Photovoltaic Power Generation, Batteries, Energy Storage Systems, Smartphone

8. WARRANTY AND SUPPORT

DATOUBOSS is committed to the quality of its products. As a manufacturer, we have a dedicated customer service team and technical support team ready to assist you.

If you have any questions, concerns, or require technical assistance, please do not hesitate to contact our friendly customer service. Refer to your purchase documentation for specific warranty terms and contact information.

For more information about DATOUBOSS and our products, please visit our official website or contact us through the platform where you purchased this product.

