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- › DATOUBOSS /
- › DATOUBOSS Pure Sine Wave Inverter User Manual

## DATOUBOSS TY-PSW-E2000

# DATOUBOSS 2nd Generation Pure Sine Wave Inverter User Manual

Model: TY-PSW-E2000

## INTRODUCTION

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This user manual provides detailed instructions for the safe and efficient operation of your DATOUBOSS 2nd Generation 2000W/4000W Universal Pure Sine Wave Inverter. This device converts 12V/24V DC battery power to 220V/230V AC household power, suitable for a wide range of electronic devices and appliances. Please read this manual thoroughly before use and retain it for future reference.

## SAFETY INFORMATION

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**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, and flammable materials. Avoid exposure to water or excessive humidity.
- **Connections:** Always connect the inverter to a battery before connecting any AC loads. Ensure all connections are tight and secure to prevent arcing and overheating.
- **Battery Voltage:** Verify that the input DC voltage (12V or 24V) matches the inverter's intelligent identification system.
- **Load Capacity:** Do not exceed the inverter's rated power (2000W continuous, 4000W peak). Overloading can damage the inverter and connected devices.
- **Grounding:** Proper grounding is essential. Consult a qualified electrician if unsure.
- **Children:** Keep the inverter out of reach of children.
- **Disassembly:** Do not attempt to disassemble or modify the inverter. There are no user-serviceable parts inside.
- **Protection Functions:** The inverter is equipped with multiple protection functions (overload, overheating, high voltage, low voltage, short circuit, internal fuses). Understand these features and their indicators.

# [For 2024] New Upgrade Ic Chip Quick Response & Security Upgrade



Overvoltage  
protection



Low voltage  
protection



Short circuit  
protection



Overload  
protection



Overheat  
protection



Image: Inverter protection functions including overvoltage, low voltage, short circuit, overload, and overheat protection.

## PACKAGE CONTENTS

Upon opening the package, please verify that all items are present and in good condition:

- 1 x DATOUBOSS 2000W Pure Sine 12V/24V Converter
- 1 x Set of Battery Connection Cables (Red for Positive, Black for Negative)
- 1 x User Manual (this document)



*Image: The DATOUBOSS Pure Sine Wave Inverter along with its red and black battery connection cables.*

## PRODUCT OVERVIEW

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Familiarize yourself with the components and features of your DATOUBOSS Pure Sine Wave Inverter.

# PANEL DESCRIPTION

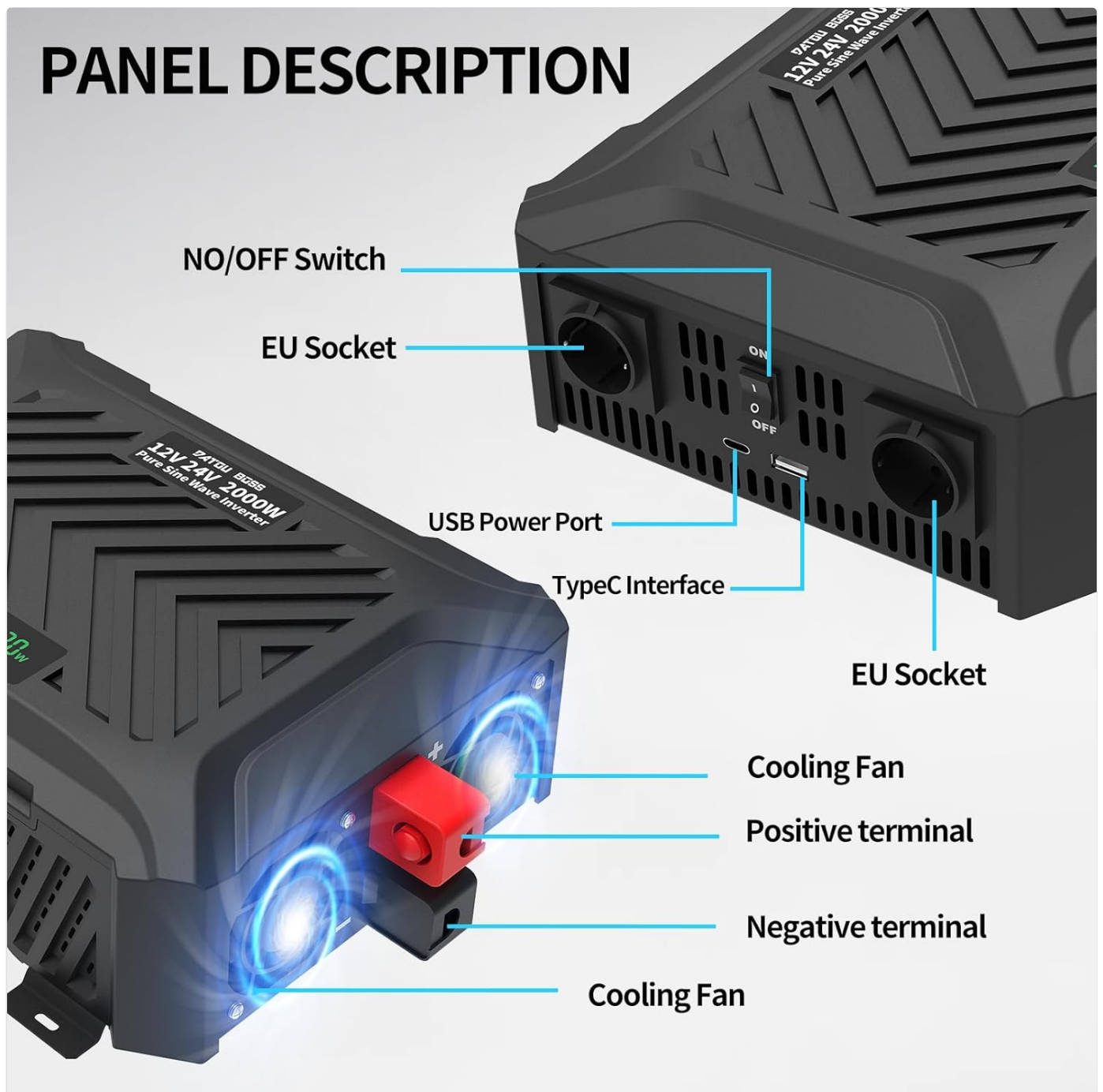


Image: Detailed view of the inverter's panel, highlighting the NO/OFF Switch, EU Sockets, USB Power Port, Type-C Interface, Cooling Fans, Positive terminal, and Negative terminal.

- **NO/OFF Switch:** Main power switch for the inverter.
- **EU Sockets:** Two standard European AC output sockets for connecting appliances.
- **USB Power Port:** Standard USB-A port for charging compatible devices (2.1A).
- **Type-C Interface:** USB Type-C port for charging compatible devices.
- **LCD Display:** Shows real-time information such as input voltage, output voltage, output power and protection mode.
- **Cooling Fans:** Integrated fans for efficient heat dissipation, activating when the load exceeds 40% or temperature rises.
- **Positive Terminal (Red):** Connects to the positive (+) terminal of your battery.
- **Negative Terminal (Black):** Connects to the negative (-) terminal of your battery.



Image: Top-down view of the inverter, clearly showing the integrated LCD display.

## SETUP INSTRUCTIONS

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Follow these steps to properly set up your inverter:

### 1. Preparation:

- Ensure the inverter's NO/OFF switch is in the "OFF" position.
- Place the inverter on a stable, flat surface in a well-ventilated area, away from direct sunlight, heat, and moisture.
- Ensure the battery is fully charged and in good condition.

### 2. Connect Battery Cables:

- Connect the **red** battery cable to the **positive (+)** terminal of the inverter and then to the **positive (+)** terminal of your battery.
- Connect the **black** battery cable to the **negative (-)** terminal of the inverter and then to the **negative (-)** terminal of your battery.
- Ensure all connections are tight and secure to prevent arcing and overheating.

3. **Intelligent Identification System:** The inverter is equipped with an intelligent identification system that automatically detects whether a 12V or 24V battery is connected and adjusts accordingly.

# Der Wechselrichter ist mit einem intelligenten Erkennungssystem für 12V und 24V ausgestattet

Es kann intelligent die Spannung der Batterie erkennen und automatisch anpassen



Der Wechselrichter kann mit Batterien von 12V oder 24V verbunden werden und hat eine Nennleistung von 2000W sowie eine Spitzenleistung von bis zu 4000W

*Image: The inverter's intelligent identification system automatically detects and adapts to 12V or 24V battery voltages.*

# 12V/24V DC auf 220V/230V AC 2000W Reiner Sinus Wechselrichter

## 12V-Modus

**Nennleistung: 2000W**  
**Spitzenleistung: 4000W**  
**Ausgangsspannung:**  
**220V/230V**

## 24V-Modus

**Nennleistung: 2000W**  
**Spitzenleistung: 4000W**  
**Ausgangsspannung:**  
**220V/230V**



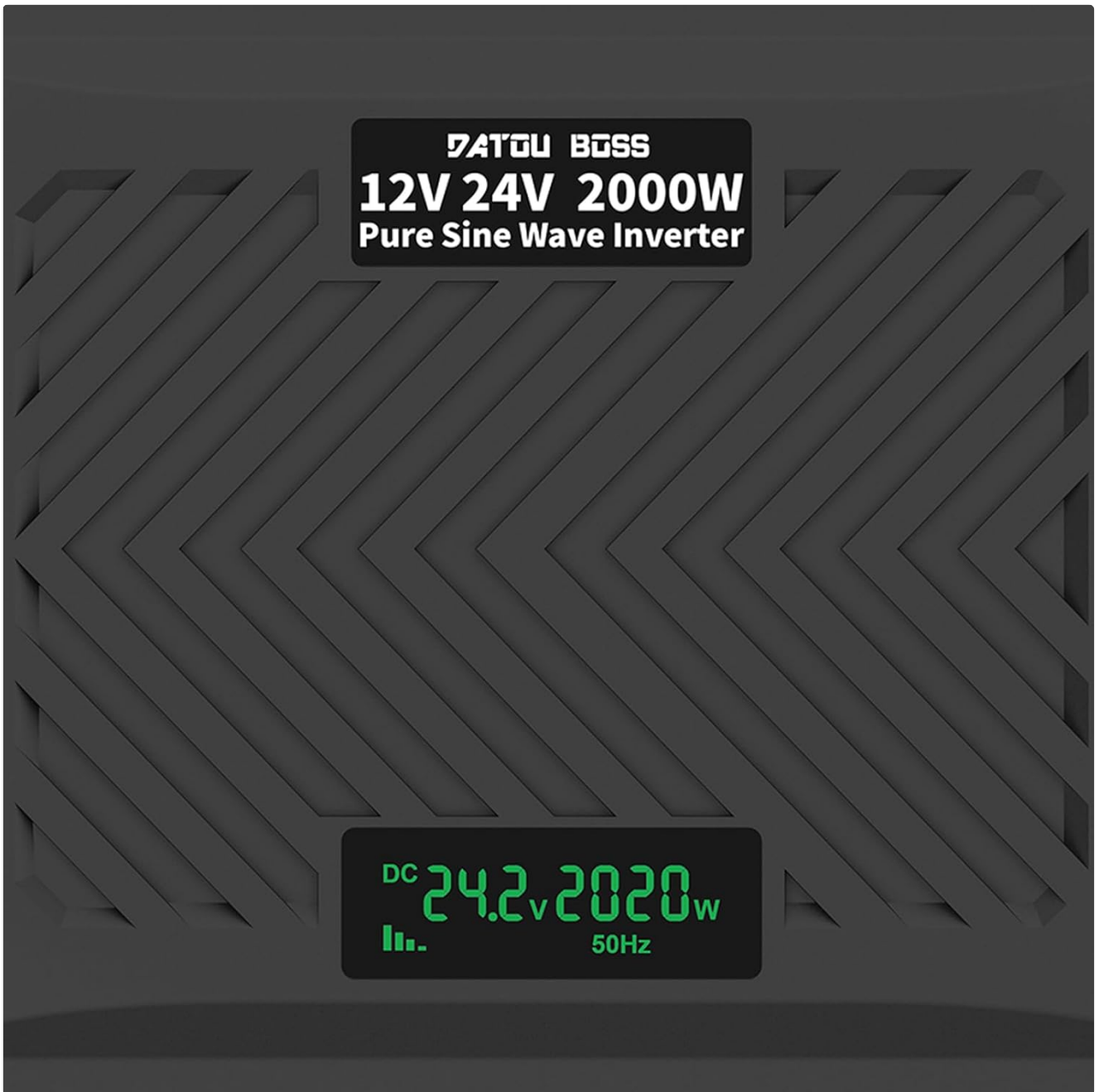
*Image: The inverter operates in both 12V and 24V modes, providing a rated power of 2000W and a peak power of 4000W, with an output voltage of 220V/230V.*

4. **Connect Appliances:** Once the battery is connected, you can connect your AC appliances to the EU sockets and USB devices to the USB/Type-C ports. Ensure the total power consumption of your devices does not exceed the inverter's rated power.

**Important: Always connect the battery to the inverter first before turning on the inverter or connecting any loads.**

## OPERATING INSTRUCTIONS

1. **Power On:** After connecting the battery and ensuring all loads are within limits, switch the NO/OFF button to the "ON" position.
2. **LCD Display:** The LCD display will illuminate, showing the current ambient temperature for one second, then display the input voltage (DC), output voltage (AC), and output power (W).



*Image: A close-up of the LCD screen displaying real-time operational data, including DC input voltage, output power in watts, and output frequency.*

3. **Connecting Devices:** Plug your AC appliances into the EU sockets. For USB charging, connect your devices to the USB-A or Type-C ports.
4. **Cooling Fans:** The intelligent cooling fans will activate automatically when the internal temperature rises or when the load exceeds 40% of the rated capacity, ensuring optimal performance and preventing overheating.
5. **Power Off:** To turn off the inverter, first disconnect all connected appliances, then switch the NO/OFF button to the "OFF" position. Finally, disconnect the battery cables.

# PURE SINE WAVE INVERTER

Provide clean power and low interference to your devices

Pure Sine Wave  
Conversion Efficiency  
**>90%**



Image: The inverter in an outdoor setting, demonstrating its use to power a laptop and a projector, highlighting its portability and utility for various applications.

# Universal 2000W Pure Sine Wave Inverter

Provide clean power and low interference to your devices



12V DC input voltage drops



AC output voltage keeps constant

Tested by Sunthesis Lab

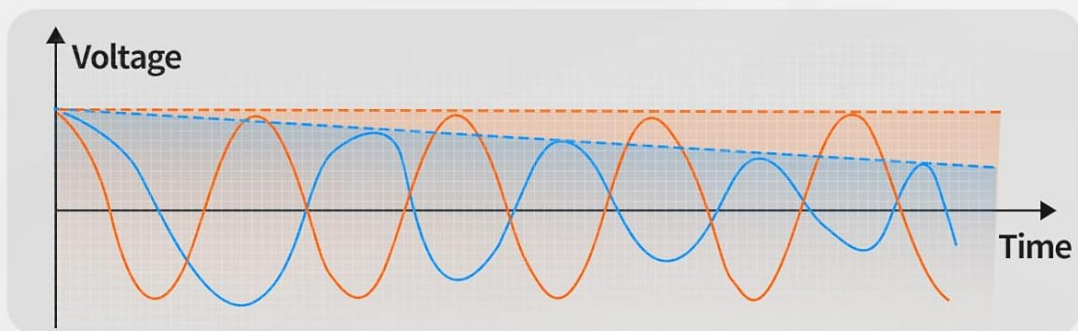


Image: An illustration demonstrating the wide range of devices that can be powered by the 2000W pure sine inverter, including refrigerators, computers, kettles, electric drills, and microwave ovens.

## SPECIFICATIONS

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<b>Feature</b>	<b>Specification</b>
Model Name	TY-PSW-E2000
Rated Output Power	2000W
Peak Output Power	4000W
Input Voltage	12V DC / 24V DC (Intelligent Identification)
Output Voltage	220V AC, 230V AC, 240V AC
Output Frequency	50Hz
Output Waveform	Pure Sine Wave
No-load Current	Less than 0.7A
Conversion Efficiency	>92%
USB Output	1 x USB-A (2.1A), 1 x USB Type-C
Operating Temperature	-10°C to 50°C
Cooling Method	Intelligent Air Cooling
Protection Functions	Input undervoltage, high input voltage, overload, output short circuit, overheating, reverse polarity (fuse triggered)

# INVERTER PURE SINE WAVE TECHNOLOGY

Efficient and stable output



Image: The inverter's dimensions (24.5cm/9.64in x 32.5cm/12.79in x 9.0cm/3.54in) and an illustration of its efficient and stable pure sine wave output.

## MAINTENANCE

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

- **Cleaning:** Periodically clean the exterior of the inverter with a soft, dry cloth. Do not use liquid cleaners or solvents.
- **Ventilation:** Ensure the cooling vents are free from dust and debris. Use compressed air to clear any blockages if necessary.
- **Connections:** Regularly check battery cable connections for tightness and corrosion. Clean terminals if corrosion is present.
- **Storage:** If storing the inverter for an extended period, disconnect it from the battery and store it in a cool, dry place.

## TROUBLESHOOTING

This section addresses common issues you might encounter with your inverter. If the problem persists, contact customer service.

Problem	Possible Cause	Solution
No output voltage / Inverter not turning on	<ul style="list-style-type: none"> <li>◦ Loose battery connections</li> <li>◦ Battery voltage too low or too high</li> <li>◦ Inverter switch is OFF</li> <li>◦ Internal fuse blown (due to reverse polarity)</li> </ul>	<ul style="list-style-type: none"> <li>◦ Check and tighten all battery cable connections.</li> <li>◦ Check battery voltage. Recharge or replace battery if necessary.</li> <li>◦ Ensure the NO/OFF switch is in the "ON" position.</li> <li>◦ Check for reverse polarity connection. If fuse is blown, contact customer service.</li> </ul>
Low output power / Inverter shuts down under load	<ul style="list-style-type: none"> <li>◦ Overload condition</li> <li>◦ Battery voltage too low</li> <li>◦ Poor ventilation / Overheating</li> </ul>	<ul style="list-style-type: none"> <li>◦ Reduce the total load connected to the inverter.</li> <li>◦ Recharge the battery.</li> <li>◦ Ensure adequate ventilation around the inverter. Clear any obstructions from cooling fans.</li> </ul>
Alarm sounds continuously	<ul style="list-style-type: none"> <li>◦ Low battery voltage</li> <li>◦ Overload</li> <li>◦ Overheating</li> <li>◦ Short circuit</li> </ul>	<ul style="list-style-type: none"> <li>◦ Check battery voltage and recharge.</li> <li>◦ Reduce load.</li> <li>◦ Allow inverter to cool down; ensure proper ventilation.</li> <li>◦ Check for short circuits in connected appliances or wiring.</li> </ul>
LCD display shows error code	Specific protection mode activated	Refer to the LCD display section in Operating Instructions for common indicators. Address the underlying issue (e.g., low voltage, overload).

## WARRANTY AND SUPPORT

As a manufacturer, DATOUBOSS is committed to the quality of its products. We provide comprehensive customer service and technical support.

- **Warranty:** Please refer to your purchase documentation for specific warranty terms and conditions.
- **Customer Service:** If you have any questions, encounter issues, or require technical assistance, please contact our friendly customer service team. Contact information can typically be found on the product packaging or the retailer's website where you purchased the product.