

VEVOR GYS-2500W

VEVOR 2500W Pure Sine Wave Inverter User Manual

Model: GYS-2500W

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your VEVOR 2500W Pure Sine Wave Inverter. Please read these instructions thoroughly before installation and use, and retain this manual for future reference.

2. IMPORTANT SAFETY INSTRUCTIONS

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

- **Electrical Safety:** Do not open the inverter casing. There are no user-serviceable parts inside. Refer all servicing to qualified personnel.
- **Ventilation:** Ensure adequate ventilation around the inverter. Do not block ventilation openings. Overheating can cause damage or fire.
- **Environment:** Install the inverter in a dry, cool, and well-ventilated area, away from direct sunlight, heat sources, flammable materials, and moisture.
- **Connection:** Connect the inverter only to a 12V DC power source. Ensure correct polarity (positive to positive, negative to negative). Incorrect connection can damage the inverter and the power source.
- **Load:** Do not exceed the inverter's rated continuous power output of 2500W. Overloading can cause the inverter to shut down or be damaged.
- **Children:** Keep the inverter out of reach of children.

3. PRODUCT OVERVIEW

The VEVOR 2500W Pure Sine Wave Inverter converts 12V DC power to 230V AC power, suitable for sensitive electronics. It features a robust design and multiple safety protections.

Key Features

- **Pure Sine Wave Output:** Provides clean and stable AC power, ideal for sensitive electronic equipment.
- **High Power Output:** Delivers 2500W continuous power with a 5000W peak surge capacity.

- **Durable Construction:** Features a sturdy aluminum alloy casing for resistance against heat, cold, and corrosion.
- **Efficient Cooling:** Equipped with an intelligent, temperature-controlled cooling fan that activates as needed to maintain optimal operating conditions.
- **Comprehensive Safety Protections:** Includes safeguards against over-voltage, under-voltage, over-temperature, short-circuit, overload, and reverse polarity.
- **LCD Display & LED Indicators:** For easy monitoring of operational status and output.
- **Convenient Remote Control:** Allows for easy operation from a distance.

Components Included

- 1 x VEVOR 2500W Pure Sine Wave Inverter
- 1 x Remote Control
- 2 x Battery Cables (Red and Black)
- 6 x Fuse Inserts
- 1 x Product Manual

Product Diagrams



The inverter features a sturdy aluminum alloy casing, designed for durability and reliability in various environments.



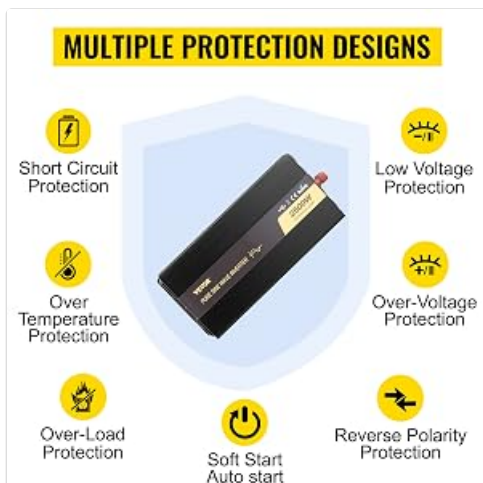
The front panel includes an LCD screen for real-time status, LED indicators, a power switch, and a convenient USB port for charging devices.



Equipped with intelligent, temperature-controlled cooling fans, the inverter ensures optimal operating temperature and extends its lifespan.



The package includes a high-quality remote control for convenient operation, robust battery cables, and extra fuses for maintenance.



The inverter incorporates multiple intelligent safety protections, such as short circuit, low voltage, over-temperature, over-voltage, overload, and reverse polarity protection, ensuring safe and stable operation.



This pure sine wave inverter is suitable for a wide range of applications, providing stable power for sensitive equipment in offices, workshops, outdoor settings, and for devices like fans, laptops, and power tools.



The compact design of the inverter measures 42 cm in length, 18 cm in width, and 8.5 cm in height, allowing for flexible installation.

4. SETUP AND INSTALLATION

Choosing a Location

- Mount the inverter on a flat, stable surface.
- Ensure the location is dry, cool, and well-ventilated. Avoid areas with direct sunlight, high temperatures, or excessive dust.
- Maintain at least 10 cm (4 inches) of clear space around all sides of the inverter for proper airflow.

Wiring Instructions

1. **Prepare Cables:** Use the provided red (positive) and black (negative) battery cables. Ensure the cable length is minimized to reduce voltage drop.
2. **Connect to Battery:** Connect the red cable to the positive (+) terminal of your 12V DC battery and to the positive (+) terminal on the inverter. Connect the black cable to the negative (-) terminal of your 12V DC battery and to the negative (-) terminal on the inverter. Ensure all connections are tight and secure.

3. **Grounding:** Connect the inverter's grounding terminal to a proper earth ground.
4. **Power On:** Once all connections are secure, switch on the inverter using the power button on the front panel or the remote control. The LCD display will illuminate, and LED indicators will show operational status.
5. **Connect AC Appliances:** Plug your 230V AC appliances into the inverter's AC outlets. Ensure the total wattage of connected appliances does not exceed 2500W.

5. OPERATING INSTRUCTIONS

Powering On/Off

- To turn on the inverter, press the 'On/Off' switch on the front panel. The LCD screen will display output voltage and other parameters.
- To turn off the inverter, press the 'On/Off' switch again.

Using the Remote Control

The included remote control allows for convenient power management from a distance.

- Ensure the remote control is within range of the inverter.
- Press the 'A' button to turn the inverter ON.
- Press the 'B' button to turn the inverter OFF.

LCD Display Information

The LCD display provides real-time operational data, including:

- Input DC Voltage (V)
- Output AC Voltage (V)
- Output Power (W)
- Error codes or protection status (e.g., low battery, overload)

6. MAINTENANCE

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

- **Cleaning:** Periodically clean the exterior of the inverter with a dry, soft cloth. Do not use liquid cleaners or solvents.
- **Ventilation:** Ensure the ventilation openings are free from dust and debris. Use compressed air to clear any blockages if necessary.
- **Connections:** Regularly check all DC and AC connections to ensure they are tight and free from corrosion.
- **Storage:** If storing the inverter for an extended period, disconnect it from the battery and store it in a cool, dry place.

7. TROUBLESHOOTING

Refer to the table below for common issues and their solutions.

Problem	Possible Cause	Solution
No output voltage / Inverter not turning on	Loose battery connections; Low battery voltage; Blown fuse; Inverter switch off.	Check and tighten battery connections; Recharge or replace battery; Check and replace fuses (use included spares); Ensure inverter switch is ON.

Problem	Possible Cause	Solution
Inverter shuts down (Overload protection)	Connected appliance wattage exceeds 2500W; Surge power too high.	Reduce the total load by disconnecting some appliances; Ensure starting current of appliances is within surge capacity.
Inverter shuts down (Over-temperature protection)	Poor ventilation; High ambient temperature; Overloaded for extended period.	Ensure adequate airflow around the inverter; Move to a cooler environment; Reduce load.
Inverter shuts down (Low/High voltage protection)	Battery voltage too low or too high.	Recharge battery if voltage is low; Check charging system if voltage is too high.
Abnormal noise from inverter	Cooling fan operating; Overload condition.	Normal operation for cooling fan; Reduce load if noise is excessive and accompanied by shutdown.

8. TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	VEVOR
Model Number	GYS-2500W
Input Voltage	12 Volts (DC)
Output Voltage	230 Volts (AC)
Output Power (Continuous)	2500 Watts
Peak Surge Power	5000 Watts
Output Waveform	Pure Sine Wave
Frequency	50 Hz
Power Efficiency	> 94 %
Display Type	LCD
Total Power Outlets	2
Product Dimensions (L x W x H)	42L x 18l x 8.5H centimeters (16.5 x 7.1 x 3.3 inches)
Recommended Product Uses	Office, Home, Vehicle
Manufacturer	VEVOR
Country of Origin	China
UPC	197988933601
ASIN	B0CQQH5MNL

9. WARRANTY AND SUPPORT

Warranty Information

The product specifications indicate that warranty information is not applicable for this item. Please refer to your point of purchase for any return or service policies.

Customer Support

For further assistance or inquiries regarding your VEVOR 2500W Pure Sine Wave Inverter, please contact VEVOR customer support through their official website or the retailer from whom you purchased the product.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question