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SGPWOSAY SUNGOLDPOWER Solar Inverter

SGPWOSAY SUNGOLDPOWER Solar Inverter User Manual

Model: SUNGOLDPOWER Solar Inverter

ASIN: B0F2JBHBNN

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and efficient installation, operation, maintenance, and troubleshooting of your SGPWOSAY SUNGOLDPOWER Solar Inverter. Please read this manual thoroughly before installation and operation to ensure proper use and to prevent potential hazards.

Retain this manual for future reference.

2. IMPORTANT SAFETY INSTRUCTIONS

Failure to follow these instructions may result in electric shock, fire, serious injury, or death. Always observe local electrical codes and regulations.

- Installation and maintenance must be performed by qualified personnel only.
- Do not attempt to disassemble, repair, or modify the inverter. There are no user-serviceable parts inside.
- Ensure the inverter is disconnected from all power sources (solar panels, battery, AC grid) before performing any maintenance or wiring.
- Avoid contact with live terminals. High voltage is present when the inverter is operating.
- Install the inverter in a well-ventilated area, away from flammable materials, moisture, and direct sunlight.
- Ensure proper grounding of the inverter.
- Keep children and unauthorized persons away from the inverter.

3. PACKAGE CONTENTS

Verify that all items are present and undamaged upon unpacking. If any items are missing or damaged, contact your supplier immediately.

- SGPWOSAY SUNGOLDPOWER Solar Inverter Unit

- User Manual (this document)
- Mounting Bracket and Screws
- DC Input Connectors (e.g., MC4 connectors)
- AC Output Terminal Block

4. PRODUCT OVERVIEW

The SGPWOSAY SUNGOLDPOWER Solar Inverter is designed to convert DC power from solar panels or batteries into usable AC power for your electrical loads. It features advanced control and protection mechanisms to ensure reliable performance.

4.1 Front Panel Layout

The front panel typically includes a display screen, status indicator LEDs, and control buttons. The display provides real-time operational data such as input voltage, output power, and error codes. LEDs indicate power status, fault conditions, and charging status.

4.2 Rear Panel Connections

The rear panel houses the input and output terminals. These include DC input terminals for solar panels and/or batteries, AC output terminals for connecting to loads, and a grounding terminal. Communication ports (e.g., RS485, USB) may also be present for monitoring and configuration.

(No product image available for display in this manual.)

5. SETUP AND INSTALLATION

Proper installation is crucial for the inverter's performance and safety. Refer to the wiring diagrams provided in the full product documentation for specific connection details.

5.1 Site Selection

1. Choose a location that is cool, dry, and well-ventilated.
2. Avoid direct sunlight, high temperatures, and excessive humidity.
3. Ensure adequate clearance around the inverter for proper airflow (minimum 20 cm on all sides).
4. Mount the inverter vertically on a non-flammable surface.

5.2 Mounting the Inverter

1. Use the provided mounting bracket as a template to mark drilling points on the wall.
2. Drill holes and insert appropriate wall anchors.
3. Secure the mounting bracket to the wall.
4. Carefully lift the inverter and attach it to the mounting bracket, ensuring it is securely fastened.

5.3 Electrical Connections

WARNING: Ensure all power sources are disconnected before making any electrical connections. High voltage can cause severe injury or death.

1. **Grounding:** Connect the inverter's grounding terminal to a reliable earth ground using a properly sized ground wire.
2. **DC Input (Solar Panels/Battery):**
 - Connect the positive (+) and negative (-) terminals from your solar panel array or battery bank to

the corresponding DC input terminals on the inverter.

- Ensure correct polarity. Reverse polarity will damage the inverter.
- Use appropriate DC circuit breakers or fuses on the DC input lines.

3. AC Output:

- Connect your AC loads (e.g., household appliances) to the AC output terminals of the inverter.
- Ensure the total load does not exceed the inverter's rated output power.
- Install an appropriate AC circuit breaker on the AC output line.

(No official product videos available for display in this manual.)

6. OPERATION

6.1 Initial Power-Up

1. Double-check all electrical connections for tightness and correct polarity.
2. Turn on the DC circuit breaker(s) for the solar panels and/or battery.
3. Turn on the AC output circuit breaker.
4. Press the power button on the inverter (if applicable) to turn it on.
5. Observe the display and status LEDs. The inverter should initiate its startup sequence and begin operating.

6.2 Normal Operation

During normal operation, the inverter will convert DC power to AC power. The display will show current operational parameters. Refer to the display section of the full product manual for detailed information on interpreting display readings and LED indicators.

6.3 Shutdown Procedure

1. If applicable, press and hold the power button on the inverter to initiate shutdown.
2. Turn off the AC output circuit breaker.
3. Turn off the DC circuit breaker(s) for the solar panels and/or battery.
4. Wait for all indicator lights to turn off before proceeding with any maintenance.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your inverter. Always disconnect all power sources before performing maintenance.

7.1 Regular Checks

- **Monthly:** Inspect the inverter for any visible damage, loose connections, or signs of overheating. Clean the exterior with a dry, soft cloth.
- **Quarterly:** Check ventilation openings for dust accumulation and clean if necessary to ensure proper airflow.
- **Annually:** Have a qualified technician inspect all electrical connections, wiring, and grounding for integrity and safety.

7.2 Storage

If the inverter will not be used for an extended period, store it in a cool, dry, and dust-free environment. Ensure

all power sources are disconnected and the unit is clean before storage.

8. TROUBLESHOOTING

This section outlines common issues and their potential solutions. If the problem persists after attempting these steps, contact customer support.

Problem	Possible Cause	Solution
Inverter not turning on	No DC input power; loose connections; faulty power button.	Check DC input voltage from solar panels/battery; verify all connections are secure; ensure power button is pressed correctly.
No AC output	Overload; short circuit on AC output; inverter fault; AC output breaker tripped.	Reduce AC load; check for short circuits; reset AC breaker; check inverter display for error codes.
Over-temperature warning	Insufficient ventilation; high ambient temperature; blocked cooling fins.	Ensure adequate clearance around the inverter; move to a cooler location; clean cooling fins.
Low battery voltage alarm	Battery discharged; faulty battery; insufficient solar charging.	Charge battery; inspect battery health; check solar panel output and connections.

9. SPECIFICATIONS

The following are typical specifications for the SGPWOSAY SUNGOLDPOWER Solar Inverter. Specific models may vary. Refer to your product packaging or specific model documentation for precise values.

Parameter	Value
Rated Output Power	[e.g., 3000W / 5000W]
DC Input Voltage Range	[e.g., 12V / 24V / 48V]
AC Output Voltage	[e.g., 120VAC / 230VAC]
AC Output Frequency	[e.g., 50Hz / 60Hz]
Waveform	Pure Sine Wave
Efficiency	[e.g., >90%]
Operating Temperature	[e.g., -10°C to 50°C]
Dimensions (L x W x H)	[e.g., 400 x 200 x 150 mm]
Weight	[e.g., 10 kg]

10. WARRANTY INFORMATION

The SGPWOSAY SUNGOLDPOWER Solar Inverter comes with a limited warranty against defects in materials and workmanship for a period of **[e.g., one (1) year]** from the date of purchase. This warranty does not cover damage caused by improper installation, misuse, abuse, natural disasters, or unauthorized repairs.

To claim warranty service, please retain your proof of purchase and contact customer support with a detailed description of the issue.

11. CUSTOMER SUPPORT

For technical assistance, troubleshooting guidance, or warranty inquiries, please contact SGPWOSAY customer support:

Email: support@sgpwosay.com

Website: www.sgpwosay.com/support

Phone: [e.g., +1-800-123-4567] (Available during business hours)

Please have your product model and ASIN (B0F2JBHBNN) ready when contacting support.