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Samlex America SSW-2000-12A

Samlex America SSW-2000-12A 2000W Pure Sine Wave Inverter Instruction Manual

Model: SSW-2000-12A

1. Introduction

The Samlex America SSW-2000-12A is a 2000-watt pure sine wave inverter designed to convert 12-volt DC battery power into 115-volt AC household power. This inverter is suitable for powering sensitive electronic equipment, including office equipment, televisions, DVD players, video game consoles, and battery chargers. Its pure sine wave output ensures compatibility and safe operation for a wide range of devices. This manual provides essential information for the safe installation, operation, and maintenance of your inverter.



Image 1.1: Top-down view of the Samlex America SSW-2000-12A Pure Sine Wave Inverter. This image shows the compact design and overall appearance of the unit.

2. Safety Instructions

Read all safety instructions before installing or operating the inverter. Failure to follow these instructions may result in electrical shock, fire, or serious injury.

- **Ventilation:** Ensure the inverter is installed in a well-ventilated area. Do not block ventilation openings.
- **Dry Environment:** Do not expose the inverter to water, rain, snow, or spray. Operate only in a dry environment.
- **Flammable Materials:** Do not install the inverter near flammable materials, gases, or liquids.
- **DC Input Voltage:** Connect the inverter only to a 12V DC power source. Connecting to other voltages may damage the unit.
- **Polarity:** Always observe correct polarity when connecting DC input cables (positive to positive, negative to negative).
- **Grounding:** The inverter must be properly grounded. Refer to the installation section for details.
- **Overload Protection:** Do not exceed the inverter's rated continuous power output. Overloading can cause damage to the inverter and connected devices.
- **Battery Safety:** When working with batteries, wear eye protection and remove metal jewelry. Ensure the area is well-ventilated.
- **Qualified Personnel:** Installation and servicing should be performed by qualified personnel.

3. Package Contents

Verify that all items are present in the package:

- Samlex America SSW-2000-12A Pure Sine Wave Inverter
- Instruction Manual

4. Product Features

The Samlex SSW-2000-12A inverter incorporates advanced features for reliable power conversion:

- **Continuous Power Output:** 2000 Watts
- **Peak Surge Power:** 4000 Watts (for starting inductive loads)
- **Output Waveform:** Pure Sine Wave (ideal for sensitive electronics)
- **Input Voltage:** 12 Volts DC
- **Output Voltage:** 115 Volts AC
- **AC Outlets:** Two (2) GFCI protected outlets
- **Design:** Compact and lightweight for easy installation
- **Soft Start Technology:** Reduces inrush current during startup
- **Protection Circuits:** Universal protection against thermal overload, battery under/over voltage, output overload, short circuit, and earth fault.



Image 4.1: Front panel of the Samlex SSW-2000-12A Inverter. This view highlights the two GFCI protected AC outlets and the power switch.

5. Setup & Installation

Proper installation is crucial for the safe and efficient operation of your inverter.

5.1. Choosing a Location

- Select a dry, cool, and well-ventilated area.
- Avoid direct sunlight, heat sources, and moisture.
- Ensure adequate clearance around the inverter for airflow.
- Mount the inverter securely to a stable surface to prevent movement.

5.2. DC Input Connection

Connect the inverter to a 12V DC battery bank. Use appropriate gauge cables for the current draw and cable length to minimize voltage drop.

1. Ensure the inverter's power switch is in the OFF position.
2. Connect the **negative (-)** cable from the battery to the**negative (-)** terminal on the inverter.
3. Connect the **positive (+)** cable from the battery to the**positive (+)** terminal on the inverter.
4. It is recommended to install an appropriate DC-rated fuse or circuit breaker (not included) in the positive DC input line, close to the battery, for overcurrent protection.

5. Ensure all connections are tight and secure. Loose connections can cause overheating and damage.

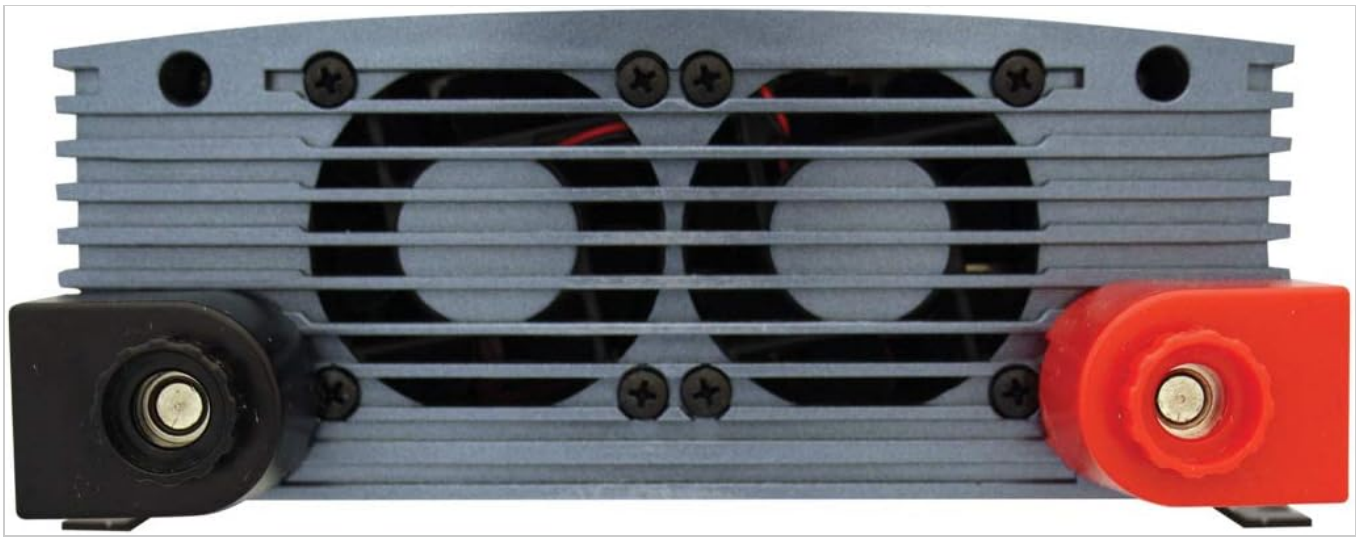


Image 5.1: Rear view of the Samlex SSW-2000-12A Inverter. This image displays the DC input terminals (red for positive, black for negative) and the cooling fans.

5.3. Grounding

The inverter chassis must be properly grounded. Connect a ground wire from the inverter's ground terminal to a reliable earth ground point (e.g., vehicle chassis, boat hull, or dedicated ground rod).

6. Operation

Follow these steps to operate your Samlex SSW-2000-12A inverter:

1. **Verify Connections:** Double-check all DC input and grounding connections.
2. **Power On:** Flip the inverter's power switch to the ON position. The power indicator light should illuminate.
3. **Connect AC Loads:** Plug your AC devices into the GFCI protected outlets on the front of the inverter.
4. **Monitor:** Observe the inverter's indicator lights for normal operation. If a fault indicator illuminates, refer to the Troubleshooting section.
5. **Power Off:** Before disconnecting any AC loads or the inverter from the battery, switch the inverter to the OFF position.

Note: Some appliances, especially those with motors or compressors, may have a high startup (surge) current. Ensure the inverter's peak surge rating (4000W) is sufficient for your devices.

7. Maintenance

The Samlex SSW-2000-12A inverter requires minimal maintenance to ensure long-term performance.

- **Cleaning:** Keep the inverter clean and free of dust and debris. Use a dry cloth to wipe the exterior. Do not use liquid cleaners.
- **Ventilation:** Periodically check that the ventilation openings are clear and not obstructed.
- **Connections:** Regularly inspect all electrical connections (DC input, grounding) to ensure they remain tight and free from corrosion.

- **Battery Maintenance:** If connected to a battery bank, follow the battery manufacturer's maintenance guidelines.

8. Troubleshooting

If the inverter is not functioning correctly, consult the following table for common issues and solutions:

Problem	Possible Cause	Solution
No AC output, power indicator OFF	Inverter not turned ON Loose DC connections Low battery voltage Blown DC fuse/breaker	Turn inverter ON Check and tighten DC cables Recharge or replace battery Check and replace fuse/reset breaker
No AC output, fault indicator ON	Overload Over-temperature Short circuit Battery over-voltage	Reduce AC load Ensure proper ventilation, allow to cool Check AC wiring for shorts Check battery charging system
Low AC output voltage	Low battery voltage Excessive voltage drop in DC cables	Recharge battery Use heavier gauge DC cables or shorten length
Inverter shuts down intermittently	Intermittent overload Poor ventilation Low battery voltage	Reduce load Improve airflow around inverter Recharge battery

If the problem persists after attempting these solutions, contact Samlex America customer support.

9. Specifications

Brand	Samlex America
Model	SSW-2000-12A
Continuous Output Power	2000 Watts
Peak Output Power	4000 Watts
Input Voltage	12V DC
Output Voltage	115V AC
Output Waveform	Pure Sine Wave
Number of AC Outlets	2 (GFCI Protected)
Dimensions (L x W x H)	12.4 inches x 8.9 inches x 3.5 inches

Weight	9.9 pounds
Protection Features	Thermal, Battery (low/over voltage), Overload, Short Circuit, Earth Fault

10. Warranty & Support

10.1. Limited Warranty

The Samlex America SSW-2000-12A Pure Sine Wave Inverter is backed by a**2-year limited warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. The warranty does not cover damage due to improper installation, misuse, abuse, or unauthorized modifications.

10.2. Customer Support

For technical assistance, warranty inquiries, or service, please contact Samlex America customer support. Refer to the official Samlex America website or product packaging for current contact information.

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