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## SRSRS 4000W Solar Inverter Kit (SRSRS)

# SRSRS HAOSONG 4000W Solar Inverter Kit Instruction Manual

Model: 4000W Solar Inverter Kit (SRSRS)

## Introduction

This manual provides detailed instructions for the safe and efficient installation, operation, and maintenance of your SRSRS HAOSONG 4000W Solar Inverter Kit. This kit is designed to provide reliable off-grid power for various applications, including RVs, boats, and home charging systems. Please read this manual thoroughly before using the product to ensure proper function and safety.

## Safety Instructions

Always observe the following safety precautions to prevent injury or damage to the equipment:

- Ensure all connections are correct and secure before applying power. Incorrect wiring can cause damage or fire.
- Do not expose the inverter or controller to water or excessive moisture.
- Install the components in a well-ventilated area to prevent overheating.
- Keep children away from the solar power system.
- Do not attempt to disassemble or repair the unit yourself. Contact qualified personnel for service.
- Wear appropriate personal protective equipment (PPE) such as gloves and eye protection when handling batteries and making electrical connections.
- Ensure the battery voltage matches the system requirements (12V for this kit).
- Disconnect all power sources before performing any maintenance or troubleshooting.

## Package Contents

Verify that all items listed below are included in your package:

- 1 x Pure Sine Wave Power Inverter (4000W Peak, 800W Rated)
- 1 x 18W Monocrystalline Solar Panel (420x280x2.5mm)
- 1 x 30A 12V/24V Automatic Solar Charge Controller (PWM)
- 2 x Battery Clips
- 1 x Cigarette Lighter Plug

- 1 x User Manual (this document)
- Output Accessories: DC cigarette lighter cable + DC crocodile clip (for solar panel)

## Product Overview

### System Components

The HAOSONG Solar Inverter Kit consists of three main components: a solar panel, a solar charge controller, and a power inverter. These components work together to convert solar energy into usable AC power.

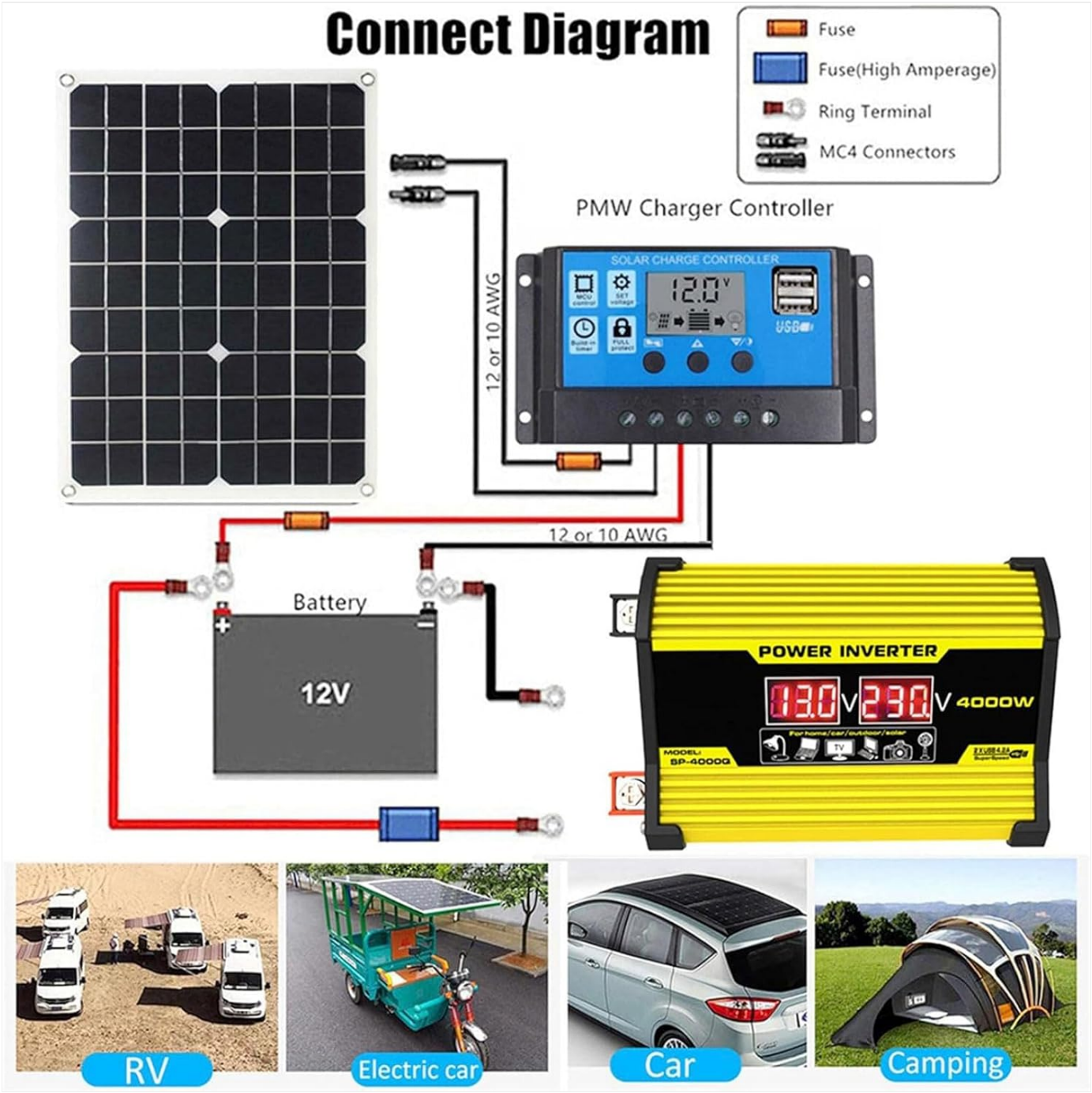



**Figure 1: System Connection Diagram.** This diagram illustrates how the solar panel, solar charge controller, 12V battery, and power inverter are interconnected to form a complete solar power system. It also shows examples of applications like RVs, electric cars, cars, and camping setups.

### Solar Panel (18W)

The 18W monocrystalline solar panel captures sunlight and converts it into DC electricity. It is designed for durability and efficiency.

- **Power:** 18W ±5%
- **Dimensions:** 420x280x2.5mm
- **DC Output:** 12V/1.5A
- **USB Output:** 5V/1.7A
- **Type:** Monocrystalline
- **Material:** Aluminum substrate + efficient chip + PET

## Solar Charge Controller (30A PWM)

The 30A PWM solar charge controller manages the power flow from the solar panel to the battery, preventing overcharging and optimizing battery life. It features an LCD display for monitoring and dual USB outputs for charging devices.




**Figure 2: Solar Charge Controller Features.** This image highlights the LCD display, menu buttons (MENU, UP, DOWN), and various terminals including Solar Panel, Battery, and Load terminals. It also shows the dual 5V/2A USB ports.

- **Charging Current:** 30A
- **Voltage:** DC 12V/24V (automatic intelligent conversion)

- **Display:** LCD digital display
- **USB Output:** Dual 5V 2.1A
- **Protection:** Overcharging, short circuits, reverse polarity
- **Adjustable Parameters:** Float charge, discharge stop, discharge reconnect, charge reconnect, lighting voltage.

## Pure Sine Wave Power Inverter (4000W)

The 4000W pure sine wave inverter converts 12V DC battery power into 220V AC power, suitable for sensitive electronics. It features dual LED displays for voltage monitoring and dual USB ports.




**Figure 3: Power Inverter Features.** This image points out key components of the inverter, including the ventilation opening, universal AC socket, LED voltage display, On/Off switch, dual USB ports, cooling fan, and the positive (+) and negative (-) DC terminals.

- **Model:** HZ4000
- **Input Voltage:** DC 12V
- **Output Voltage:** AC 220V
- **Output Frequency:** 50Hz

- **Peak Power:** 4000W
- **Rated Power:** 800W
- **Efficiency:** ≥90%
- **AC Current per Outlet:** 8.33 amps
- **THD:** <3%
- **No-Load Current:** <0.6 A
- **Features:** Dual LED display, On/Off switch, Dual USB ports (5V/2.5A MAX), Cooling fan, Universal AC socket.

## Setup and Installation

Follow these steps carefully to set up your solar power system. Refer to Figure 1 for a visual guide.

1. **Connect the Solar Charge Controller to the Battery:**

   First, connect the positive (+) terminal of the 12V battery to the positive (+) battery terminal on the solar charge controller. Then, connect the negative (-) terminal of the battery to the negative (-) battery terminal on the controller. The controller will automatically detect the battery voltage. **Ensure correct polarity.**




**Figure 4: Inverter Connected to Car Battery.** This image shows an example of the inverter being connected to a car battery,

demonstrating the use of battery clips for DC input.

2. **Connect the Solar Panel to the Charge Controller:**

   Next, connect the positive (+) terminal of the solar panel to the positive (+) solar panel terminal on the charge controller. Then, connect the negative (-) terminal of the solar panel to the negative (-) solar panel terminal on the controller. **Be careful not to reverse the connection.**




**Figure 5: Solar Panel in Use.** This image depicts the solar panel deployed outdoors, connected to the inverter, providing power in a camping or outdoor setting.

3. **Connect the Load to the Charge Controller (Optional for DC loads):**

   If you have 12V DC loads, connect their positive (+) and negative (-) poles to the corresponding load terminals on the solar charge controller. **Ensure correct polarity.**

4. **Connect the Power Inverter to the Battery:**

   Finally, connect the positive (+) DC input terminal of the power inverter to the positive (+) terminal of the 12V battery. Connect the negative (-) DC input terminal of the inverter to the negative (-) terminal of the battery. Use the provided battery clips or appropriate wiring. **Ensure secure connections and correct polarity.**

**Important:** The disassembly sequence is the reverse of the wiring sequence. Always disconnect the solar panel first, then the load, and finally the battery when disassembling the system.

## Operating Instructions

### Solar Charge Controller Operation

- **LCD Display:** The LCD shows real-time system status, including battery voltage, charging current, and load status.
- **MENU Button:** Press to switch between different display screens. Long press to enter/exit setting mode.
- **UP Button:** Press to increase a value in setting mode.
- **DOWN Button:** Press to decrease a value in setting mode.
- **USB Ports:** Use the dual 5V/2.1A USB ports to charge mobile devices.

### Power Inverter Operation

1. Ensure the inverter is securely connected to the 12V battery.
2. Press the On/Off switch on the inverter to power it on. The LED display will show the input DC voltage and output AC voltage.
3. Plug your AC appliances (up to 800W continuous, 4000W peak) into the universal AC socket.
4. Use the dual 5V/2.5A USB ports to charge compatible USB devices.
5. When finished, turn off the inverter using the On/Off switch.

**Note:** The inverter's cooling fan will activate automatically when needed to prevent overheating.

## Maintenance

- **Regular Inspection:** Periodically check all wiring connections for tightness and corrosion.
- **Cleaning:** Keep the solar panel surface clean from dust, dirt, and debris to ensure optimal performance. Clean the inverter and controller with a dry cloth. Do not use liquids.
- **Ventilation:** Ensure the inverter's ventilation openings are clear and not obstructed to allow for proper airflow.
- **Battery Care:** Monitor battery health and charge levels. Follow the battery manufacturer's maintenance guidelines.
- **Storage:** If storing the system for an extended period, ensure the battery is fully charged and disconnect all components. Store in a cool, dry place.

## Troubleshooting

| Problem | Possible Cause | Solution |
|---|---|---|
| No power output from inverter | Inverter not switched on.<br>Low battery voltage.<br>Loose battery connections.<br>Overload. | Turn on the inverter.<br>Charge the battery.<br>Check and tighten battery connections.<br>Reduce connected load. |
| Solar panel not charging battery | Solar panel not connected correctly.<br>Solar panel dirty or shaded.<br>Faulty charge controller. | Check solar panel wiring to controller.<br>Clean panel surface; remove obstructions.<br>Verify controller operation via LCD. |
| Charge controller LCD not displaying | Battery not connected or low voltage.<br>Loose battery connections. | Connect battery; ensure sufficient charge.<br>Check and tighten battery connections to controller. |

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

## Specifications

### 1. Solar Panel (18W)

- **Power:** 18W ±5%
- **Dimensions:** 420x280x2.5mm
- **DC Output:** 12V/1.5A
- **USB Output:** 5V/1.7A
- **Weight:** 0.7 kg
- **Type:** Monocrystalline solar panel
- **Material:** Aluminum substrate + efficient chip + PET
- **Output Accessories:** DC cigarette lighter cable + DC crocodile clip

### 2. Pure Sine Wave Inverter (4000W)

- **Model:** HZ4000
- **Input Voltage:** DC 12V
- **Output Voltage:** AC 220V
- **Output Frequency:** 50Hz
- **Peak Power:** 4000W
- **Rated Power:** 800W
- **Weight:** 1.0 kg
- **Maximum Active Surge Rating (less than 1 second):** 4000W
- **Maximum AC Current per Outlet:** 8.33 amps
- **THD:** <3%
- **Efficiency:** ≥90%
- **No-Load Current:** <0.6 A

### 3. Solar Charge Controller (30A)

- **Charging Current:** 30A
- **Product Size:** 148.5x78x35mm
- **Voltage:** DC 12V/24V automatic intelligent conversion
- **Display Mode:** LCD digital display
- **USB Port:** Dual 5V 2.1A
- **Working Temperature:** -35°C~+60°C
- **Maximum Solar Input:** 12V system, up to 23V
- **Float Charge:** 13.7V (default, adjustable)
- **Discharge Stop:** 10.7V (default, adjustable)
- **Discharge Reconnect:** 12.6V (default, adjustable)
- **Charge Reconnect:** 13V
- **Lighting Voltage:** Solar panel 8V (light on delay)
- **Lights-off Voltage:** Solar panel 8V (lights-off delay)
- **Load Output:** 2 outputs, 5V/2.5A (MAX)




**Figure 6: Component Dimensions and Accessories.** This image provides dimensional information for the solar charge controller and power inverter, and illustrates the various cables and clips included with the kit.

## Warranty and Support

For warranty information and technical support, please refer to the product packaging or contact the seller directly. Keep your purchase receipt as proof of purchase.


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