

# RS-3000W

## All-In-One Portable Solar Power Station

### USER MANUAL

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Congratulations on your RS-3000W purchase

**PLEASE FULLY CHARGE BEFORE USE!!!**

# SAFETY INSTRUCTIONS

Please read these instructions carefully before use to ensure safe usage!



## DANGER

Noncompliance may very likely lead to serious injuries or death.

- ❗ DO NOT disassemble, repair or modify the unit or the battery.
- ❗ DO NOT place the unit close to or in a fire or expose it to heat. Keep out of direct sunlight.
- ❗ DO NOT charge, use or store the unit in a bathroom or in an area exposed to rain or moisture.
- ❗ Only use the output socket to power external devices. Never connect the output to mains power under any circumstances.
- ❗ DO NOT touch the unit or the plug-in points if your hands are wet.
- ❗ DO NOT connect any metallic objects to the AC input or output.
- ❗ DO NOT rub your eyes if fluid from inside the unit should get in your eyes.
- ❗ DO NOT dispose the unit together with household waste.
- ❗ DO NOT use any inappropriate power cords.
- ❗ DO NOT operate the unit above the specified input voltage.
- ❗ DO NOT use the unit if it is not functioning correctly.
- ❗ DO NOT move the unit if it is recharging or in use.



## WARNING

Noncompliance may lead to serious injuries or death.

- ❗ Use and store the unit only in a clean and dry environment. Do not use and store in dusty and wet environment.
- ❗ Check the unit before each use. DO NOT use the unit if it is damaged, broken.
- ❗ DO NOT use the unit if the power cord is damaged or broken.
- ❗ Keep the unit away from children. DO NOT let children use the power supply unit.
- ❗ Keep this product away from pets.
- ❗ DO NOT use or store the unit in an area or environment with high temperature.
- ❗ If fluid from inside the unit come into contact with your skin or clothes, wash the affected areas with tap water.
- ❗ In a storm, unplug the power cord from the socket.
- ❗ DO NOT charge the unit via power supply systems that operate outside of 100-240V.
- ❗ DO NOT place the unit on its side or upside down while in use or storage.
- ❗ DO NOT use accessories for other usage.



## CAUTION

Noncompliance may lead to injuries or property damage

- ❗ If rust, peculiar odors, overheating or other abnormal circumstances are observed, stop using the unit immediately and contact dealer or our customer service center.
- ❗ The unit complies with all legal requirements for transport of dangerous goods.
- ❗ Make sure that the unit is properly secured when transporting it in a motor vehicle.
- ❗ Only charge, use and store the unit within an ambient temperature according to the specifications.
- ❗ Switch the unit off immediately if it has accidentally fallen, was dropped or was exposed to vibrations.
- ❗ Carefully read the instructions for the electric devices that you intend to connect to your power supply unit.
- ❗ Make sure that the device you are connecting is switched off before you connect it.









1. Serious injuries include blindness, burns, electric shock, fractures, poisoning, etc., which can lead to complications, hospitalization or permanent treatment.

2. Injuries include burns, electric shock, etc., which do not lead to hospitalization or permanent treatment.

3. Property damage includes buildings, belongings and pets, etc.

## WARNING

## DISCLAIMER

	Only use within the specified temperatures.	<p>We will not be held responsible or liable for any damage incurred through acts of nature, use outside of the recommended guidelines and specifications, accidental damage, flood and serious water damage.</p> <p>Intentional misuse or abuse of the product in any way outside of the recommended guidelines will immediately invalidate your warranty.</p> <p>In the event of failure, do not attempt to repair any part of this product. Contact our customer service immediately if still within your product warranty period.</p> <p>Any use outside of that is recommended for this product will render the warranty invalid.</p> <p>Intended Use: The RS-3000W is designed as a portable power access point and is primarily made available for low power devices of 3000W or less.</p> <p>It is not intended for use with high power devices and should only be used with devices requiring 3000 watts or less to preserve the lifetime of the RS-3000W.</p>
	Avoid serious damage and drops.	
	Warranty void if disassembled.	
	Do not submerge in water.	
	Please dispose of all components in accordance with regulations.	
	Always use supplied/certified charging cables.	
	To extend and preserve the battery life, please use and recharge at least once every 3 months.	
	Not permitted on aircraft.	



This device complies with part of the FCC rules. Operation is subject to the following two conditions:

This device may not cause harmful interference.

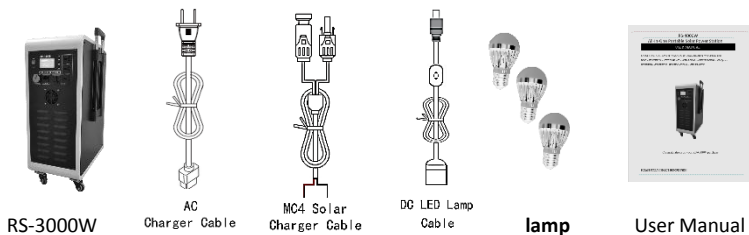


This device must accept any interference received, including interference that may cause undesired operation.



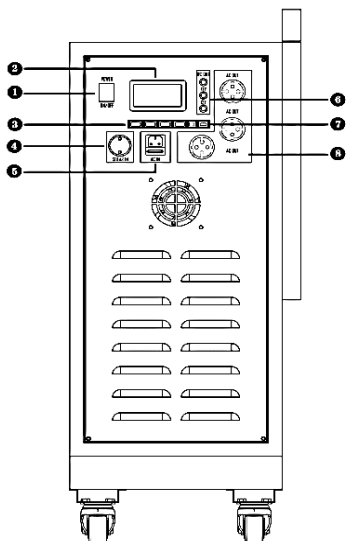
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## WHAT'S IN THE BOX



**Remark: The accessories parts is matched as demand**

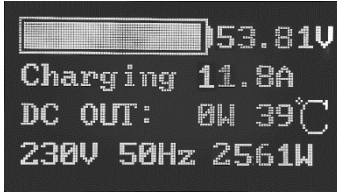
## FEATURES



- 1. Power DC/OFF/AC&DC**
- 2.DISPLAY**
- 3.USB OUTPUT**
- 4.SOLAR INPUT**

- 5.AC INPUT**
- 6.DC OUTPUT**
- 7.TYPE-C OUT**
- 8.AC OUTPUT**

## DISPLAY



Press the main power button to open the LCD screen. From the screen, you can check the battery capacity, power input, DC output, AC output, internal temperature, cooling fan.

Device status	DC output	AC output	LCD display	Display working status
Inverter turned off charge status	off	off	[Progress Bar] 48.36V Charging 40.00A DC off AC off	Solar charging: The solar panel is placed in a place where the sun shines, and the other end of the positive and negative wire is connected with the host by connecting the solar panel, and the host indicates that the charging is carried out.
AC DC input Charge status	on	on	[Progress Bar] 51.56V Charging 15.09A DC OUT:70W 42°C 230V 50Hz 2584W	
AC supply no charge	On	on	[Progress Bar] 48.36V Charging 40.00A DC OUT:66W UPS:AC OUT=AC IN	Disconnect the output and will switch to: OFF state. Switch back to the switch back to the ON DC or DC ON AC state, the output will return to normal.
AC short circuit Charge status	on	off	[Progress Bar] 48.36V Charging 40.00A DC OUT:66W Err AC Out Short	
AC output overloaded Charge status	on	off	[Progress Bar] 48.36V Charging 40.00A DC OUT:66W Err AC Drive Low	When the AC output short circuit, such as AC overload, "output error AC" at the same time flashing, please disconnect the output and will switch to: OFF state. Re switch back to the DC ON AC state, the output will return to normal. <b>When AC charging is used, the machine load shall not exceed 1000W!!!</b>
No AC IN low battery capacity	off	off	[Progress Bar] 38.36V Charging 40.00A DC off AC off	
Battery damage or high voltage	off	off	[Progress Bar] 58.36V Charging 00.00A DC off Err Battery High	
Device over temperature	off	off	[Progress Bar] 50.56V Charging 00.00A DC off Too high tempe	

## LIMIT FOR THE USE

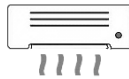
### DC OUTPUT

Press the main power button to turn on DC outputs. Please ensure the total DC power consumption is less than 72W, or it will automatically shut off, need to restart the power station.



### AC OUTPUT

Press AC ON/OFF button while main power is ON. Please ensure the total power consumption is less than 3000W, or it will automatically shut off, need to restart the power station.

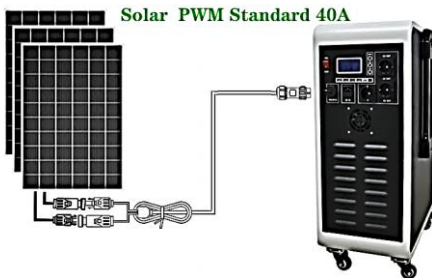


## RECHARGING

Before use or storage, plug your RS-3000W into the wall until it is fully charged. If the display shows less than 20% capacity, plug it into a power source, like an AC outlet or a solar panel, as soon as possible. There are many ways to recharge your RS-3000W.

### Solar charging

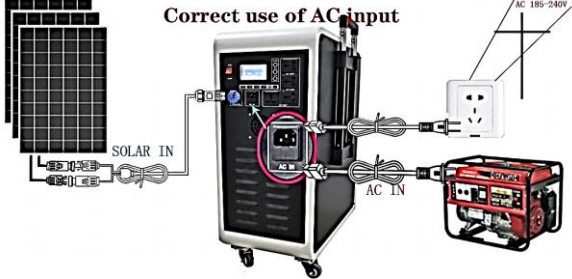
The solar charging input is PWM 60-72V 40A 2800W Max



\_\_\_\_\_ PWM \_\_\_\_\_  
If use two 72V solar panels, connect the solar panels in parallel, then connect to DC IN using the MC4 solar charging cable.

## AC charging

**Correct use of AC input**




**AC CHARGING**  
The AC charging input is 185-255V 1000W/(1200W Max).  
It takes about 3 hours to fully charge RS-3000W.

**When AC charging is used, the machine load shall not exceed 1000W!!!**

## OUTPUT

### DC OUTPUT



**DC 12V OUTPUT**

**DC OUTPUT**  
The DC Output: 12.5V 60W/(72W Max).  
RS-3000W output full load is available for about 60 hours.

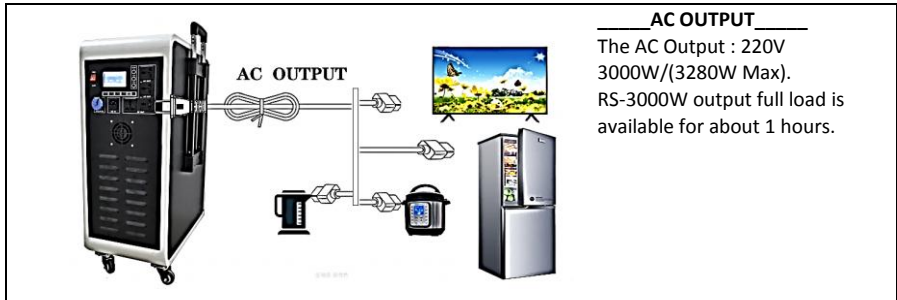
### USB OUTPUT



**USB 3.0/TYPE-C OUT**

**USB OUTPUT**  
The USB Output : 5.2V  
TYPE-C Output:5v-12v 15W/(18W Max).  
RS-3000W output full load is available for about 220 Times.

## AC OUTPUT



## FAQs

### 1. What type of battery is there in the generator? Is it replaceable?

RS-3000W uses a large single lithium battery, which circulates 2000 times between 1c and 80% of the initial capacity. Therefore, there is no need to replace the battery within the service life of the device unless the battery has been exhausted.

### 2. How do I know if my power station is charged?

To check the charging level of the power station, refer to the display. The first line indicates the battery power and voltage, and the second line shows you the real-time charging current.

### 3. How do I know if my device will work with the power station?

You need to check the power consumption required by the equipment, and watch the third line of DC load power and the fourth line of AC load power on the machine display. That means your The power of AC equipment shall not exceed 3000W and that of DC equipment shall not exceed 70W.

### 4. Can I charge the power station while using it to power my devices?

Yes, you can use RS-3000W to power devices while recharging it.

### 5. How many watts solar panel can I connect to RS-3000W?

RS-3000W PWM models, you can connect up to 72V 2800W solar panels.

### 6. How long does it take to charge RS-3000W with AC?

The AC input is 185-255V 1000W, it takes about 4 hours to fully recharge RS-3000W.



## WARNING

Warning: the AC output port of the machine must not be connected to the grid power supply or generator. If connected! Damage is not covered by warranty.

Wiring is strictly prohibited

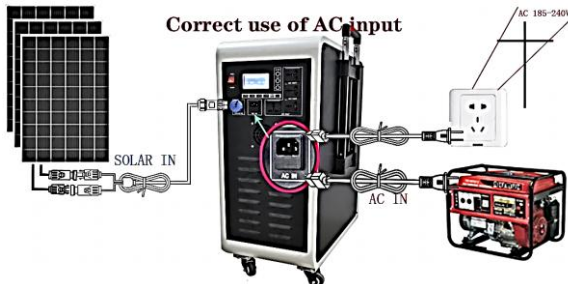


Wiring is strictly prohibited



### AC CHARGING

Correct use of AC input



The AC charging input is 185-255V 1000W/(1200W Max). It takes about 3 hours to fully charge RS-3000W.

When AC charging is used, the machine load shall not exceed 1000W!!!

## TECHNICAL SPECIFICATIONS

Battery capacity	2700Wh(51.2V 50Ah)
Battery type	Lithium iron phosphate
Cycle Life	>2000 cycles@ 1C to 80% of initial capacity
<b>Output Ports</b>	
AC Output	100-120V/220-240V 50/60Hz 3000W, surge 6000W
DC Output	12V 6A max
CIG Output	12V 6A max
USB OUTPUT	5V3.3A max
TYPE-C OUTPUT	5V-9V-12V 18W
LED light	NO
<b>Input Ports</b>	
PV IN	PWM model 60V-72V 2800W max
AC IN	185V-255V 1000W/(1200W max)
<b>General</b>	
Operating Temperature	-20°C-40°C
Recharging Temperature	0°C-40°C
Storage Temperature	0°C-40°C
Cooling	Fan cooled
Weight	70kg
Dimension	600*350*840
Warranty	2 years

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## WARRANTY

### Limited Warranty

We warrant to the original consumer purchaser that the product will be free from defects in workmanship and material under normal consumer use during the applicable warranty period identified in the 'Warranty Period' section below, subject to the exclusions set forth below. This warranty statement sets forth our total and exclusive warranty obligation. We will not assume, nor authorize any person to assume for us, any other liability in connection with the sale of our products.

### Warranty Period

The warranty period is 24 months. In each case, the warranty period is measured starting on the date of purchase by the original consumer purchaser. The sales receipt from the first consumer purchase, or other reasonable documentary proof, is required in order establish the start date of the warranty period.

### Remedy

We will repair or replace (at our option) any product that fails to operate during the applicable warranty period due to defect in workmanship or material. If a valid claim is made during the applicable period, we will either

- (1) Replace the product, or
- (2) Exchange the product with a product that is of equal value. A repair, or replacement product will only be authorized if within the appropriate warranty period and having followed all manufacturer's operating instructions.

We will not be responsible if any of our products have been:

- (a) Operated or used outside of manufacturer's instructions
- (b) Been altered or adapted in any way
- (c) Been tampered with or had any factory seals broken

### Limited to Original Purchaser

Our product warranties are limited to the original purchaser/consumer and may not be passed on to a subsequent owner.

### Exclusions

Our warranties do not apply to any product that has been misused, modified, damaged by an accident, flood or water damage, or for any use outside of those recommended in this user manual and/or the manufacturer's specifications.

### Warranty Issues

To request a warranty replacement or repair, contact our customer service team.

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