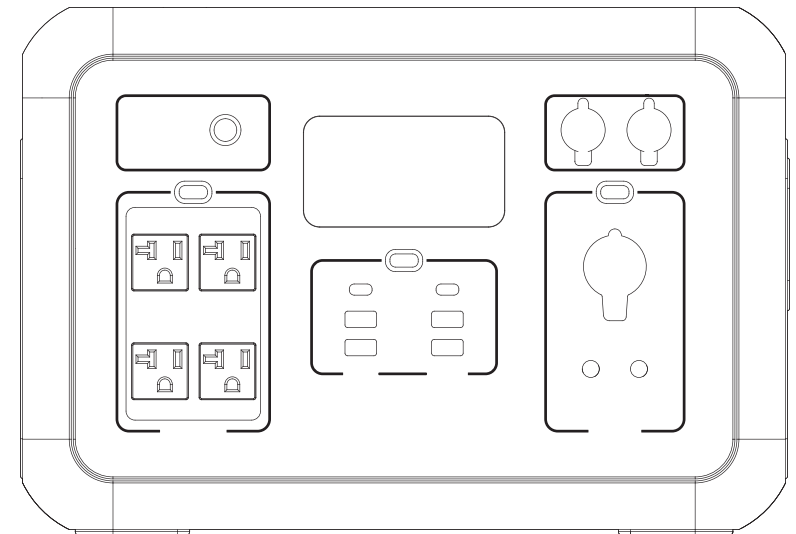


# ALLWEI<sup>®</sup>

## USER MANUAL

2000W Portable Power Station  
Emergency Power Source



**FC RoHS**  
Made in China



Model: SGR-PPS2000-2

Thank you for purchasing ALLWEI's 2000W Portable Power Station. The portable power station can connect to AC wall outlets, solar panels, and DC power sources and is designed to keep your electronic devices powered both during an emergency and while on the go. It comes equipped with AC outlets, 12V DC output ports, a car port, USB-C ports and fast charging USB ports for your convenience. Perfect for outdoor adventures and home backup, it is compatible with most electronic devices such as drones, projector, coffee maker, blender, refrigerator, cooling fan, microwave. You can also charge your devices with this unit in case of a power failure.

## Package List:

- 2×AC Power Adapter
- 2x AC Power Cord-US Standard
- 2x MC4 Cable
- 1x Car Cigarette Cable
- 1x Accessory Storage Bag
- 1x User Manual

## Warnings

Before using the power station, please carefully read the following instructions:

1. The power station has a built-in lithium battery that is highly sensitive to high temperatures. It should be kept away from high heat sources.
2. Keep away from moisture or water.
3. Do not disassemble, microwave, puncture, incinerate or insert foreign objects into the power station.
4. Do not crush, drop or place heavy objects on top of the device.
5. Do not use the product if damaged or punctured.
6. If not in regular use, charge the power station every other month to remain fully prepared for an emergency.

## Warranty & Customer Service Support

Thanks for purchasing our 2000W portable emergency power station. If you have any questions about it, please feel free to contact us. Your valuable opinions and suggestions are highly appreciated. Welcome to leave your real and objective review to help other buyers for reference.

The SGR-PPS2000-2 is covered a warranty of 5 Years from the date of its original purchasing.

✉ [allweiservice@outlook.com](mailto:allweiservice@outlook.com)

### CAUTION

- a) Do not overcharge the internal battery. See instruction manual.
- b) Do not smoke, strike a match, or cause a spark in the vicinity of the power station.
- c) Only charge the power station in a well-ventilated area.
- d) Risk of electric shock. Connect only to properly grounded outlets.
- e) Risk of injury to persons. Do not use this product if the power cord or the battery cables are damaged in any way.
- f) Keep away from moisture or water. Do not use outdoors on rainy days.


## 12. Are the built-in batteries replacement or upgradeable?

No. If the battery pack is faulty or even dead, please contact our Customer Service.

## 13. Can I use the 2000w power station as a UPS?

No.

## Common Trouble Shooting

Failure Description	Types	Solutions
Unit can not charging from AC wall outlets	AC charging fault	1.Please ensure to use original AC adapter. 2.Please check if the AC wall plug is correct connection. If not solved,Please contact our after-sales service.
Unit can not charging from solar panel	DC solar charging fault	1.Please ensure solar charging connection is correct under user manual. 2.Please ensure connected solar panel specification is meet specified standard. 3.Please ensure solar panel charging under sunlight environment. 4.If not solved,Please contact our after-sales service.
LCD Screen icon flash "AC" "DC" "USB"	Over-current protection Short circuit protection Over-voltage protection Low-voltage protection Over-Load protection	Resolve the problem by pulling out plug or remove electrical devices, the product can recover itself after re-start. If not solved,Please contact our after-sales service.
 High-temperature icon continuous appears	High-temperature warning	Power station can recover itself after battery cooled.

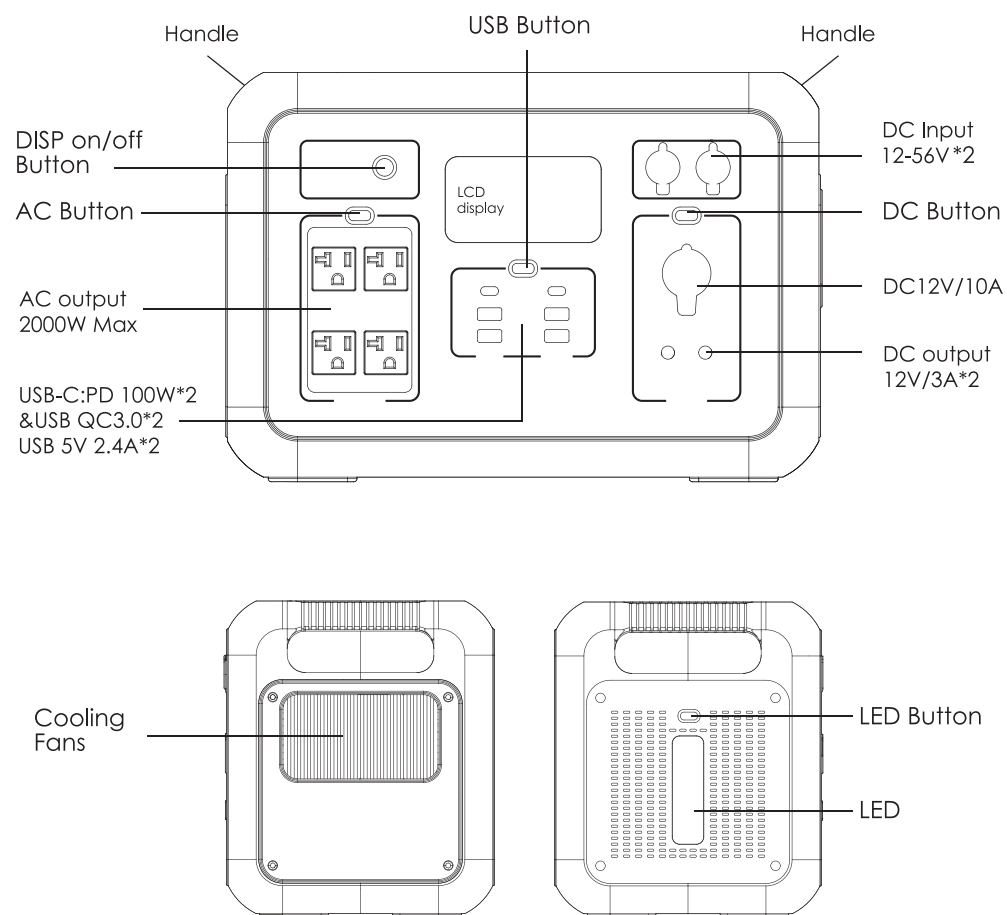
## Technical Specification

Battery Capacity	Lithium-ion 2131Wh±5%(96Ah/22.2V)
AC Input charging	2x External 250W adapter
Car Input charging	DC12V~24V/280W Max
Solar Input charging	DC12V~56V/400W Max
Output Ports	4*AC Output: 120V, 60Hz, 2000W, Peak 4000W *Note: when the battery capacity ≤10%, AC max output power is 400W(to protection of battery cycle life) When the battery power ≤10%, AC max output power is 400W(to protection of battery cycle life)  USB Output 1: DC 5V,2.4A USB Output 2: DC 5V,2.4A USB Output 3: DC 5V3A or DC9V2A or DC12V1.5A USB Output 4: DC 5V3A or DC9V2A or DC12V1.5A USB Type-C 1: DC 5V3A or DC9V3A or DC12V3A or DC15V3A or DC20V5A(PD100W) USB Type-C 2: DC 5V3A or DC9V3A or DC12V3A or DC15V3A or DC20V5A(PD100W) DC Output 1: DC12.8V, 10A Max Output Regulated DC Output 2: DC12.8V, 3A DC Output 3: DC12.8V, 3A
AC Output waveform	Pure Sine Wave
LED Lights	2W MAX, 3 Levels(L/M/H adjustable)with SOS function
Safety Protections	Short-Circuit Over-Current Over-Voltage Low-Voltage Over-Load Over-Temperature
Lifecycles	1500 cycles to 80%+ capacity
Pass-Through Charging	Supported
Weight&Size	37 LBS/14.96in x 8.66in x 10.24in
Environmental Operating Temperature	Charge Temperature: 0~40°C(32~104°F) Discharge Temperature: -10~40°C(14~104°F)

## Use Instructions

1. Long press the DISP on/off button 3 seconds or any of the port buttons to turn on the power station. To turn off the power station long press the turn on/off button 3 seconds.
2. The individual port buttons turn on or off the power to their respective ports. To conserve power, turn off ports when not in use. Read the LED screen to know which port is turned on.
3. Plug in your devices.
4. The power station supports full pass-through charging, so you can charge the power station and run your devices at the same time.

## Product Diagram



### 7. Why is the power station have the Auto-Sleep mode?

To avoid forgetting to turn off the output during use that results in battery consumption, the power station will turn to Auto-Sleep mode when it detects no device is connected or the connected device is less than or equal to a certain value (AC Output  $\leq 2W$ , USB Output  $\leq 2W$ , Car Port  $\leq 2W$ ), the unit will automatically shut off after 1 hour.

### 8. Is the 2000w power station waterproof?

No, please do NOT store it in a humid environment for a long time. Please store it in a dry and cool place.

### 9. Can I use or charge the 2000w power station in sub-zero temperatures?

Temperature ranges for 2000w power stations are:

AC Charging:  $-10^{\circ}\text{C}$ - $40^{\circ}\text{C}$  ( $14^{\circ}\text{F}$ - $104^{\circ}\text{F}$ );

Discharge:  $-20^{\circ}\text{C}$ - $40^{\circ}\text{C}$  ( $-4^{\circ}\text{F}$ - $104^{\circ}\text{F}$ );

Storage:  $-20^{\circ}\text{C}$ - $60^{\circ}\text{C}$  ( $-4^{\circ}\text{F}$ - $140^{\circ}\text{F}$ ).

Technically, it can power electrical devices under such situations, but please avoid charging it.

### 10. Is it normal when charging indoors for the adapter to get hot?

Yes, it's normal. The adapter has passed UL certification. The temperature range strictly meets the UL standard.

The temperature of the AC adapter surface will reach 170 degrees F during the hot summer season, but this temperature range is still under the scope of the UL standard. Please rest assured to use and do not cover the surface while charging.

### 11. What kind of solar panels should I choose for the 2000w power station?

It is highly recommended that you purchase ALLWEI's 200W Solar Panel for your 2000w power station.

This power station also supports charging with a third-party branded solar panel. But you should check if the other solar panel's connection plug and input voltage can match with our power station.

eg: The following specification should be met:

1. The open-circuit voltage must be between 18V to 56V.
2. The plug connection size: GX20-2 pin.

# FAQS and Solutions

## 1. How do I know whether my appliance can work well with the 2000W power station?

Please check the rated label of your device first. If the device's operating power is within 2000W, you can use the device normally.

## 2. How long can it run my device?

Running time = 2131\*90% conversion rate / Device Rated Power  
Eg.If your run a run a 1,000W microwave oven with it, the running time will be:2131Wh × 90% /1000W ≈ 1.91hrs

Please Note:

- 1) The formula is NOT suitable for inductive loads with compressors, like refrigerator, air conditioner, etc.
- 2) The above data is for reference ONLY.

## 3. Why is there any sound during use or charging?

This product with intelligent temperature control system, built-in fans help our product to get better cooling and securiting usage, slight noise is normal during using or charging.

## 4. Can i charge the 2000w power station while a device is plugged in?

Yes, this unit support Pass-Through Charging,you can simultaneously charge other devices while recharging the power station.

## 5. How to keep this product when it is not used for a long time?

If the battery is to be unused for a long time (more than 3 months), please recharge it every 3 months to keep the battery power above 50% if you don't use it.(it's recommended to check and charge every 3 months).

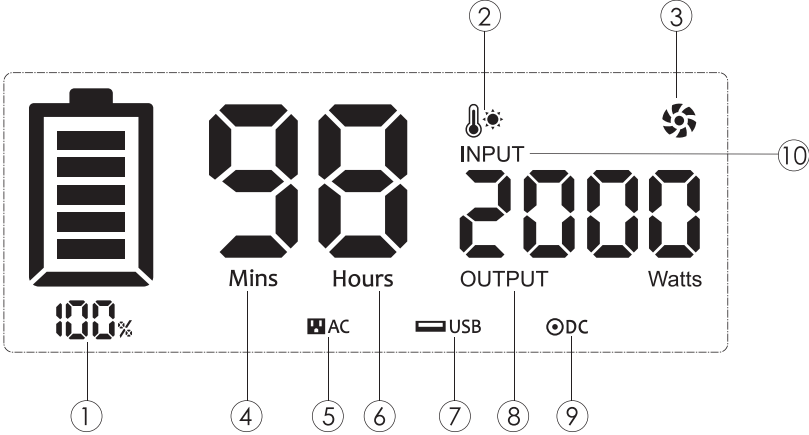
Store it in a dry and cool place with temperature range between -4°F~140°F, and humidity 20%~85%RH.

Avoid contact with corrosive substances, and far from fire and heat sources.

## 6. Can it be used to jump start a car?

No,it cannot be used to jump start a vehicle.  
However, it can be used as power supply for automobiles.  
You can recharge the car battery via a power supply cord, which is available for purchase separately.

# LCD Display



①	Remaining Battery Percentage	②	Temperature warning
③	Cooling Fans	④	Remaining Usage Time or Remaining Charging Time (Minute)
⑤	AC Output Indicator	⑥	Remaining Usage Time or Remaining Charging Time (Hour)
⑦	USB Output Indicator	⑧	Output Power
⑨	DC Output Indicator	⑩	Input Power

## Please Note

- 1. Remaining usage time is dependent on output wattage and what item(s) are being charged.
- 2. Remaining wattage and time will priority to display output power and usage time while charging and discharging simultaneously.

## Auto-Sleep Mode:

To avoid forgetting to turn off the output during use that results in battery consumption, this product will turn to Auto-Sleep mode when detects no device is connected or the connected device is less than or equal to a certain value, the unit will automatically shut off after 1 hours.

Refer to the table below for more details:

Output	Output Power	Defaults
AC Output	≤2W	The device will automatically shut down after 1 hours
USB Output	≤2W	The device will automatically shut down after 1 hours
Car Output	≤2W	The device will automatically shut down after 1 hours

\*Press any of the port buttons to restart the power station will work normally.

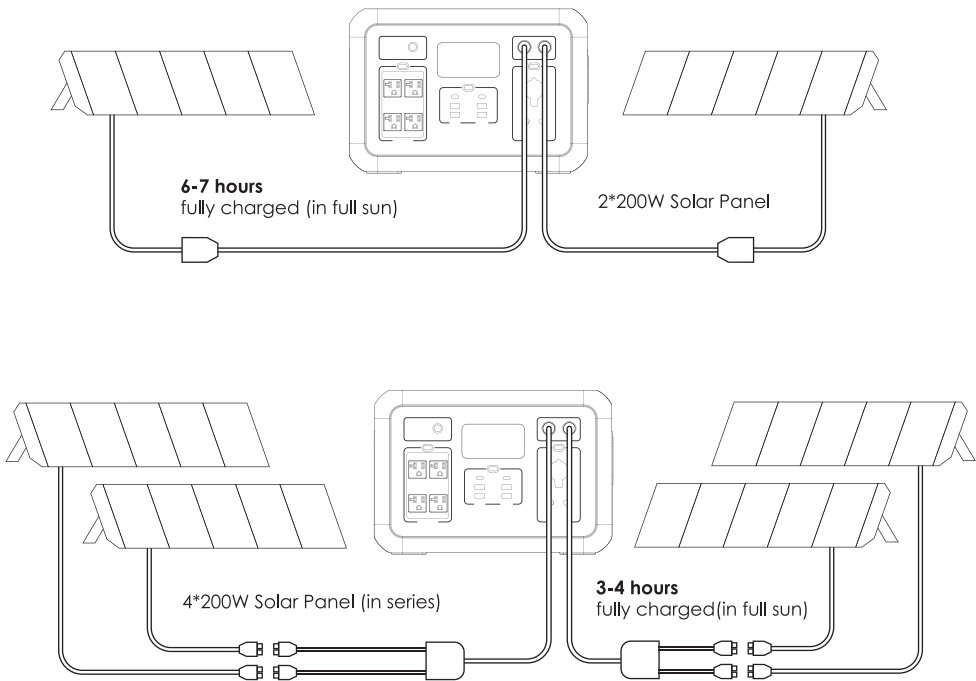
\*The unit will entering to Auto-Sleep mode by detected no output after 1 hour, user can switching the time with the following setting. Set up time to 1 hour or 12 hours by long pressing "USB" button for 3 seconds, Please check the time on the LCD screen within 3 seconds after hear the buzzer sounds which shows the set standby time.

The Auto-Sleep time is 1Hour: If there is no power output within 1 hour, the automatic sleep mode is activated, and the power station will be automatically turned off.

The Auto-Sleep time is 12Hours: If there is no power output within 12 hour, the automatic sleep mode is activated, and the power station will be automatically turned off.

## 3. Solar Panel Charging

We recommend a solar panel with a Voltage at Maximum Power of 18V-48V DC. Never use higher than 56V DC to recharge this power station.



Note: The solar panels and series connection cable need to buy separately.

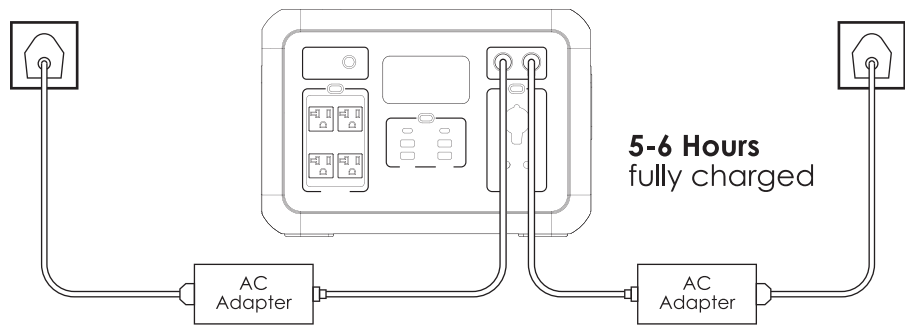
## Safety Precautions When Charging

1. please ensure that the number of solar panels connected in series is the same, and try to use the same type of solar panel.
2. Do not charge from car charger and solar panel at the same time, otherwise, it will damage the car fuse.
3. Please don't put the power station in direct sunlight while charging in the high temperature environment.



# Ways to Recharge

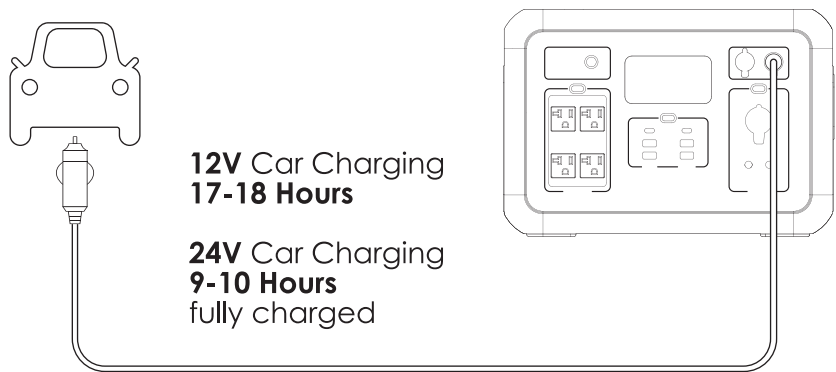
## 1. AC Wall Charging



NOTE:

- 1. Only support the original charger to recharge the power station, DO NOT USE generic chargers, they could overheat or burn you.
- 2. The surface of AC Adapter heats up when charging, This is a normal phenomenon, please rest assured use. The AC adapter working temperature is strictly comply with UL standard. Please do not cover the surface while charging.

## 2. DC Vehicle Charging



# Usage

## 1. Emergency

The power station can be used as an emergency power supply during power failures. It is especially suitable for locations that are prone to severe weather patterns and natural disasters including floods, hurricanes, earthquakes, forest fires, and snowstorms.

## 2. Outdoor Activities

Camping, outdoor celebrations, fishing, climbing, outdoor photography, RC helicopter and drone charging, farming and bird watching.

## 3. Home Backup

Home and office electrical device charging, energy-saving lamps, television, mini refrigerators, holiday decoration lights, printers, laptops, fans and smart mobile phones.

# Usage time of devices

 <b>Projector</b> (100W) 19 Hrs	 <b>*Mini Cooler</b> (90W) 21 Hrs+	 <b>Blender</b> (300W) 6 Hrs	 <b>Coffee Maker</b> (550W) 3.5 Hrs	 <b>Electric Grill</b> (1600W) 1.1 Hrs	 <b>Washer</b> (500W) 3.8 Hrs
 <b>Hand Drill</b> (60W) 32 Hrs	 <b>*Refrigerator</b> (520W) 5-24 Hrs+	 <b>*Air Conditioner</b> (1150W) 2 Hrs+	 <b>Microwave</b> (1160W) 90 Min	 <b>CPAP</b> (40W) 48 Hrs	 <b>TV</b> (110W) 17 Hrs

NOTES:

- 1.Run time=2131Wh\*90%(conversion rate)/Your device's power(Watts).
- 2.Support all electronic devices less than 2000 Watts.
- 3.It is recommended to use a DC port instead of an AC outlet to power your CPAP machine.
- 4.\*The usage time for refrigeration machines with compressors mainly depends on temperature setting and start frequency of compressors, it's usually lasting longer time than certain reference time.
- 5.The above charging times are calculated as a reference guide only. The actual usage time will depend on the power of the connected devices.