

Warranty & Customer Service Support

Thanks for purchasing our 500W 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 reviews to help other buyers for reference.

The SGR-PPS500-4 is covered a warranty of 5 Years from the date of its original purchasing.

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⚠ CAUTION

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

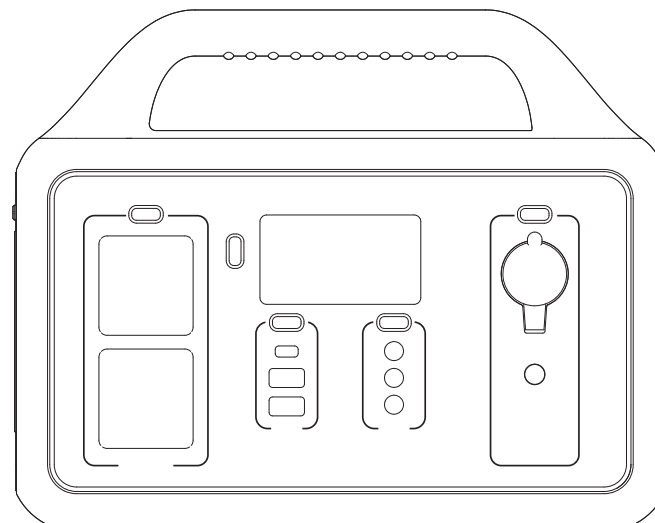


Made in China

ALLWEI

USER MANUAL

500W Portable Power Station
Emergency power source



Model : SGR-PPS500-4

Thank you for purchasing this 500W Portable Power Station.

This portable power station can connect to AC wall outlets, solar panels, and DC power sources and is designed to keep your electronic devices powered during an emergency and while on the go.

It comes equipped with AC outlets, 12V DC output ports, a car port, USB-C port and fast charging USB ports for your convenience. Perfect for outdoor adventures, it is compatible with most electronic devices such as drone, laptop, projector, mini cooler, TV and camera. You can also charge your devices with this unit in case of a power failure.

Package Contents


- (1) AC Power Adapter
- (1) AC Power Cord
- (1) DC Cable
- (1) 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.

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.

FAQS and Solutions

1. Which electronic appliances can be used with the power station?

All electronics devices of up to 500 Watts.

2. Which solar panel can be used with the power station?

A 60W~100W solar panel with a Voltage at Maximum Power (Vmp) of 13V~24V DC is recommended. Do not use higher than 24V DC to recharge the power station.

3. 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 turns to Auto-Sleep mode when detects no device is connected or the connected device is less than or equal to a certain value (AC Outputs≤2W, USB Outputs≤2W, Car Ports≤2W), the unit will automatically shut off after 12 hours.

4. What size mini-cooler or mini-fridge could this unit power?

The power station's AC continuous output is 500W and the battery capacity is 461Wh. It can power any device that requires less than 500W. However, the usage time depends on the power of the fridge and the fridge compressor.

5. Is the power station water/weather resistant?

NO. Do not expose the unit to water.

6. Are the batteries replaceable or upgradeable?

NO. The batteries are built-in and the opening of the unit will void your warranty.

7. Is there a way to disable a port group?

YES. Clicking a port's group button will disable/enable it. When enabled, an icon appears on the LCD screen.

8. How long will a single charge last without using the unit?

3-5 months. However, we suggest you charge the power station every two months if not in regular use to remain fully prepared for an emergency.

9. Does the power station support pass-through charging?

YES. The power station can simultaneously charge other devices while recharging the power station.

10. Can I use this battery to jump start your car battery?

NO.

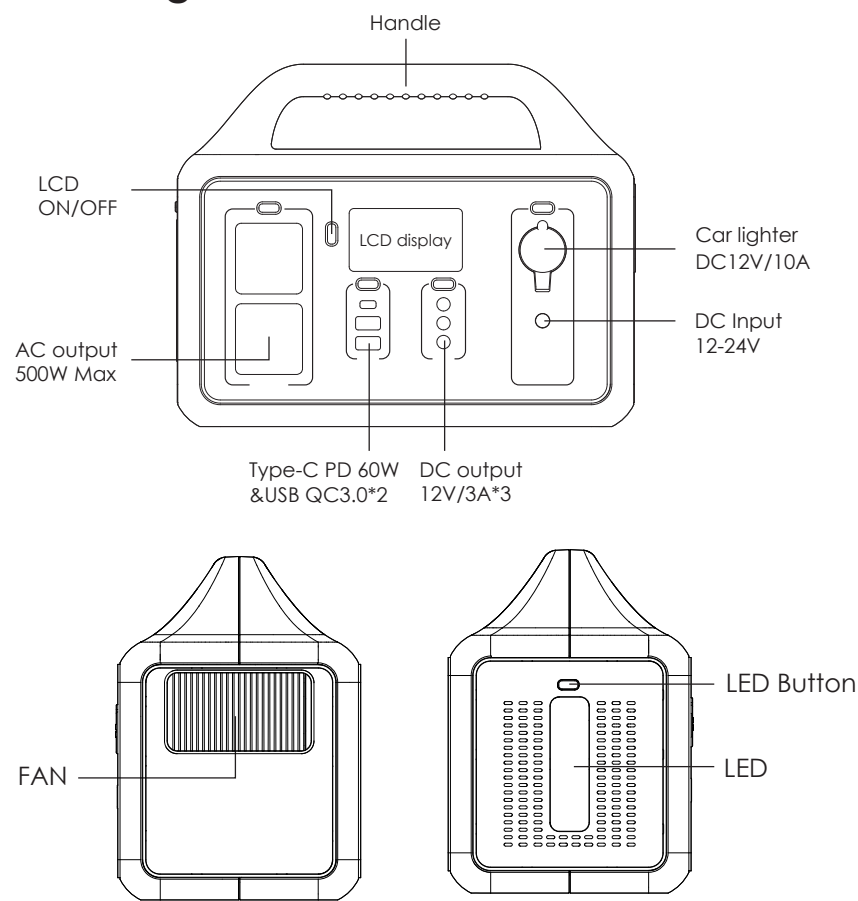
Technical Specification

Battery Capacity	Lithium-ion 461Wh(20.8Ah/22.2V)
AC Input charging	External 90W adapter
Car Input charging	DC12V~24V/7A Max
Solar Input charging	DC12V~24V/7A Max
Output Ports	2*AC Output: 110V.60Hz,500W,Peak 1000W
	2x USB-A: Blue 2*QC18W Max, 5V3A&9V2A &12V1.5A QC3.0
	1x USB-C: PD60W Max, 5V3A&9V3A&12V3A &15V3A&20V3A PD3.0
	3x DC Rated Output: Total 10A Max, Single port 12V/3A 1x Cigarette Lighter: 12V/10A Max Output Regulated
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
Safety Protections	0~40℃ (32~104°F)
Lifecycles	1000 cycles to 80%+ capacity
Pass-Through Charging	Supported
Weight&Size	5kg / 11lbs / 11.42in x 6.46in x 9.25in

Use Instructions

1. Press the power button or any other port button to turn on the unit.
When not using certain ports,it is best to turn them off to conserve power.
2. Read the LCD screen to know which port is turned on.
3. Plug in your gear.
4. Your unit supports full pass-through charging so you can charge your power station and run your gear at the same time.

Product Diagram



Usage

Emergency:

Used as an emergency power supply, the unit is especially suitable for locations that are prone to severe weather patterns and natural disaster related power failures including typhoons, floods, hurricanes, earthquakes, forest fires, snowstorms and low-temperature disaster prone areas.

Outdoor Activities:

Road trips, camping, outdoor celebrations, fishing, climbing, outdoor photography enthusiasts, RC helicopter drone charging, farming and bird watching.

Home Backup:

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

Usage time of devices

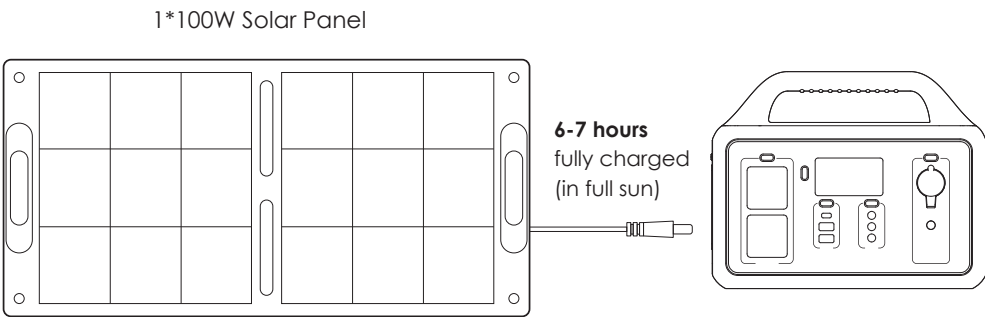
 iPhone 80+ Times	 10W Lamp 41+ Hrs	 DRONE 13+ Recharge	 Laptop 13" 6 Hrs	 Projector 4 Hrs
 50W Fan 8 Hrs	 *Mini Cooler 24 Hrs	 CPAP 10 Hrs	 32" LCD TV 3.7 Hrs	 Hand Drill 6.9 Hrs

NOTES:

- 1.Run time=461Wh*90%(conversion rate)/Your device's power(Watts).
- 2.Support all electronic devices less than 500 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.

3. Solar Panel Charging

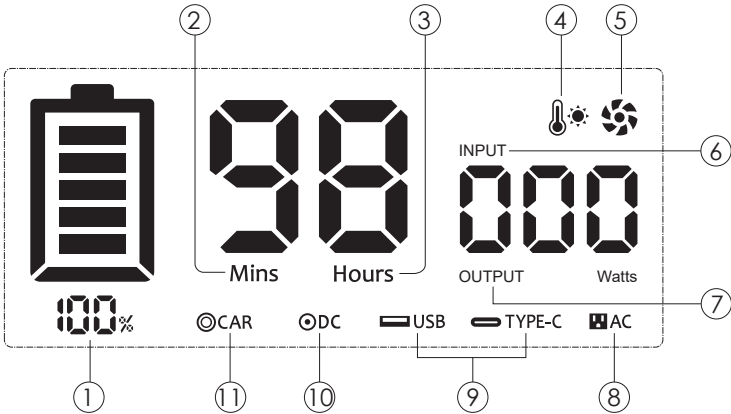
We recommend a 100W solar panel with the voltage of DC 13V-24V. Never use higher than DC 24V to recharge this power station.














Safety Precautions When Charging

- 1.Do not charge from car charger and solar panel at the same time, otherwise,it will damage the car fuse.
- 2.Please don't put the power station in direct sunlight while charging in the high temperature environment.

LCD Display



①  100%	Remaining Battery Percentage	⑦  888	Output Power
②  88	Remaining Usage Time or Remaining Charging Time(Minute)	⑧  AC	AC Output Indicator
③  88	Remaining Usage Time or Remaining Charging Time(Hour)	⑨  USB	USB Output Indicator
④ 	Temperature warning	⑩  DC	DC Output Indicator
⑤ 	Cooling Fans	⑪  CAR	Car lighter Output Indicator
⑥  888	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 it 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 12 hours.

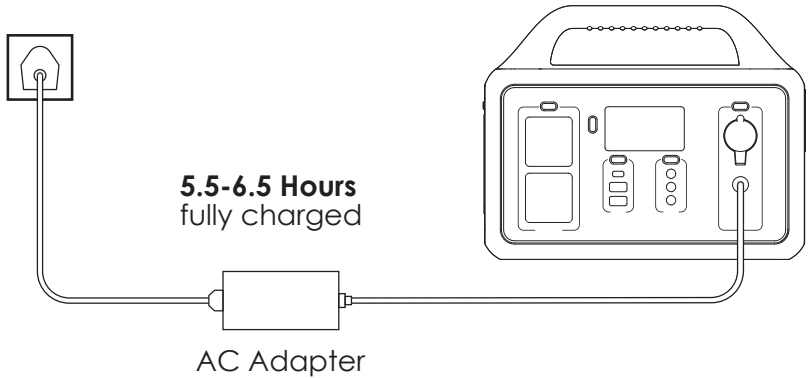
Refer to the table below for more details:

Output	Output Power	Defaults
AC Output	≤2W	The device will automatically shut down after 12 hours
USB Output	≤2W	The device will automatically shut down after 12 hours
Car Output	≤2W	The device will automatically shut down after 12 hours

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

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 range is strictly comply with safety certification. Please do not cover the surface while charging.

2. DC Vehicle Charging

