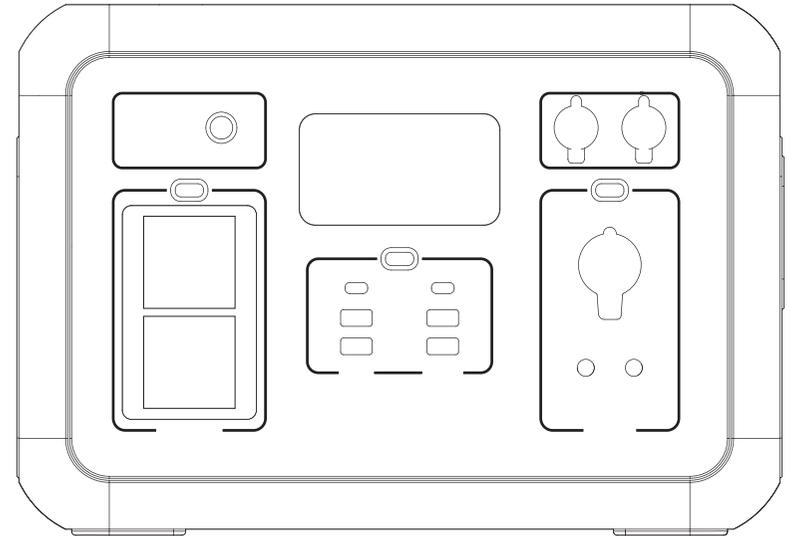


USER MANUAL

2200W Portable Power Station
Emergency Power Source



CE RoHS  
Made in China

Model: AK-PS-03

Thank you for purchasing this 2200W 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

- (1) AC Power Adapter
- (1) AC Power Cord
- (1) DC Cable
- (2) MC4 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.

Warranty & Customer Service Support

Thanks for purchasing our 2200W 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 AK-PS-03 is covered a warranty of 24 months from the date of its original purchasing.

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.

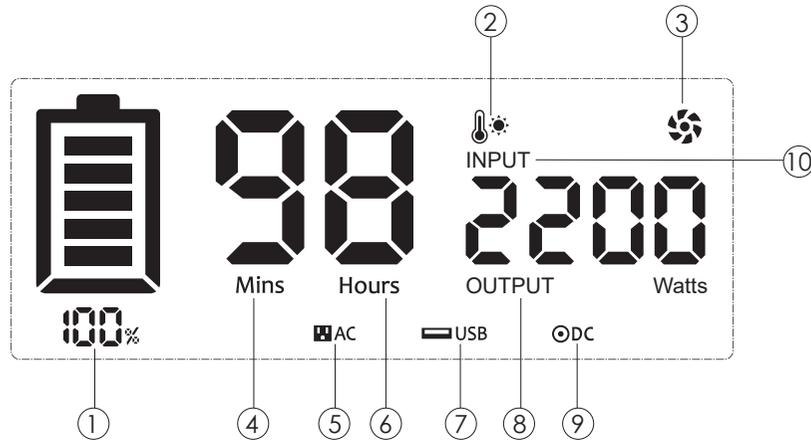
Common Trouble Shooting

Failure Description	Types	Solutions
Unit can not charging from AC wall outlets	AC charging fault	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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	AC100-240V TO DC32V/10.31A
Car Input charging	2*DC12V~56V/10A Max
Solar Input charging	4*24V/200W or 2*48V/400W Solar Panel
Output Ports	AC output*2: 230VAC, 50Hz, 2200W Peak 4400W *Note: when the battery capacity ≤10%, AC max output power is 440W(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	17,05 kg/380 x 220 x 260 mm
Environmental Operating Temperature	Charge Temperature: 0~40°C(32~104°F) Discharge Temperature: -10~40°C(14~104°F)

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.

7. Why is the output to the low-power device automatically turned off after several hours?

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 or 12 hours according to your settings.

8. Is the 2200w 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 2200w power station in sub-zero temperatures?

Temperature ranges for 2200w power stations are:

AC Charging: $0^{\circ}C - 40^{\circ}C$ ($32^{\circ}F - 104^{\circ}F$);

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

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

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 certification, the temperature range strictly meets the certification standard. Please rest assured to use and do not cover the surface while charging.

11. Are the built-in batteries replacement or upgradeable?

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

12. Can I use the 2200w power station as a UPS?

No.

FAQS and Solutions

1. How do I know whether my appliance can work well with the 2200W power station?

Please check the rated label of your device first. If the device's operating power is within 2200W, 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: $2131\text{Wh} \times 90\% / 1000\text{W} \approx 1.91\text{hrs}$

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 2200w 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 $-4^{\circ}\text{F} \sim 140^{\circ}\text{F}$, 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.

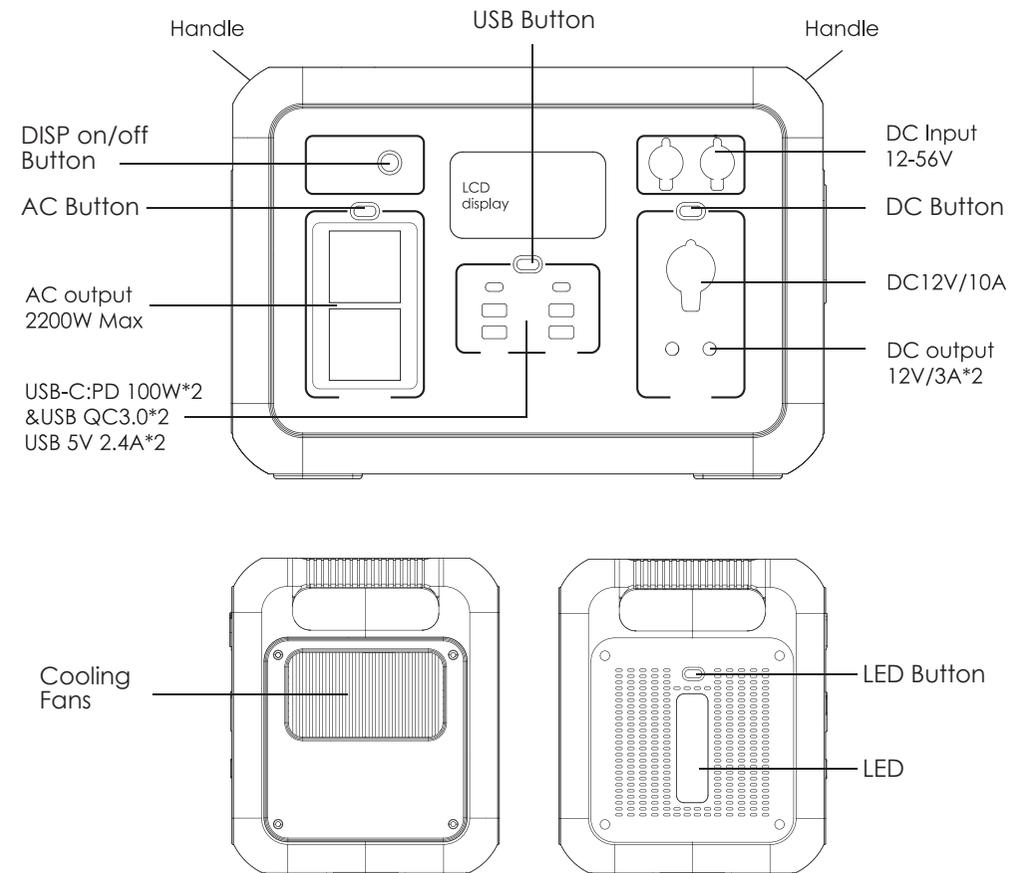
However, it can be used as power supply for automobiles.

You can recharge the car via a power supply cord, which is available for purchase separately.

Use Instructions

1. Long press the DISP on/off button 3 seconds or press 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



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 1 hour.

Refer to the table below for more details:

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

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

*The unit will enter Auto-Sleep mode by detecting no output after 1 hour, user can switch 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 hearing the buzzer sounds which shows the set standby time.

The Auto-Sleep time is 1 Hour: 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 12 Hours: If there is no power output within 12 hours, the automatic sleep mode is activated, and the power station will be automatically turned off.

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

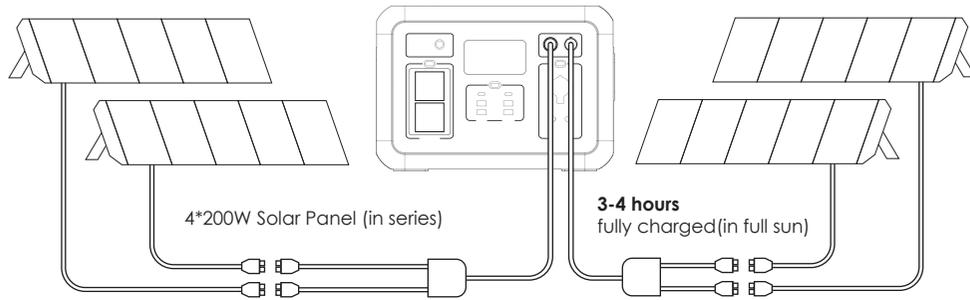
 Projector (100W) 19 Hrs	 *Mini Cooler (90W) 21 Hrs+	 Blender (300W) 6 Hrs	 Coffee Maker (550W) 3.4 Hrs	 Electric Grill (1600W) 1.1 Hrs	 Washer (500W) 3.8 Hrs
 Hand Drill (60W) 32 Hrs	 *Refrigerator (520W) 5-24 Hrs+	 *Air Conditioner (1150W) 2 Hrs+	 Microwave (1160W) 90 Min	 CPAP (40W) 47 Hrs	 TV (110W) 17 Hrs

NOTES:

1. Run time = $2131 \text{Wh} \times 90\% (\text{conversion rate}) / \text{Your device's power (Watts)}$.
2. Support all electronic devices less than 2200 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 solar panel with a Voltage at Maximum Power of 18V-48V DC. Never use higher than 56V DC to recharge this power station.



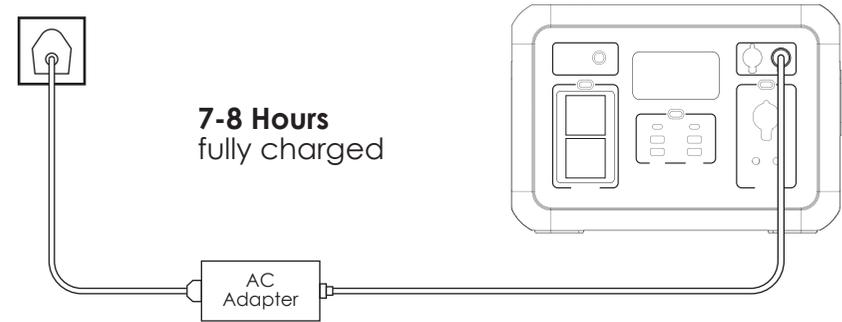
Note: The solar panels and series connection cable need to buy separately.

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

2. DC Vehicle Charging

