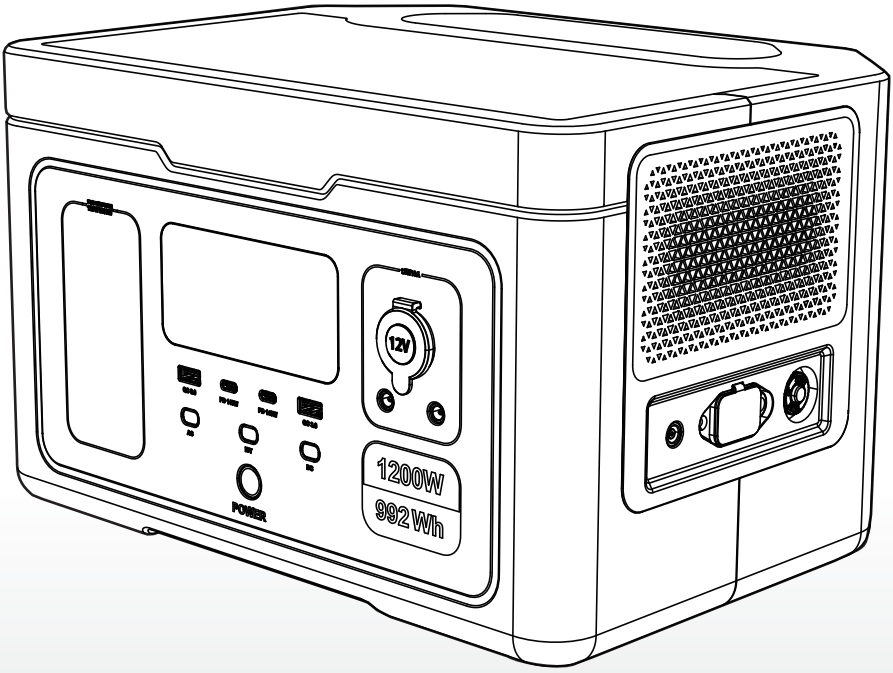
User Manual



S 012

1200W Portable Power Station

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Disclaimer

Before using this product, please read this user manual carefully to ensure that you fully understand the product and can use it correctly. After reading this user manual, please keep it in a safe place for future reference. Improper use of this product may cause serious injury to yourself or others, or result in product damage and property loss. By using this product, you are deemed to have understood, recognize and accepted all the terms and contents of this document. The Company shall not be responsible for any damages caused by the user's failure to use this product in accordance with this user manual.

In accordance with laws and regulations, the Company reserves the right of final interpretation of this document and all documents related to this product. This document is subject to change, update, revision or termination without notice. Please visit our website for the latest product information.

- The company shall not be held responsible for any damage caused by force majeure(e.g. fire, typhoon, flood, earthquake) or use under other abnormal circumstances by the customer.
- The company bears no responsibility for loss caused by the use of non–standard connectors.
- The Company shall not be liable for any damage caused by non–compliance with the standard operation.

Please do not disassemble the power station. Otherwise, the warranty will be voided.

APP

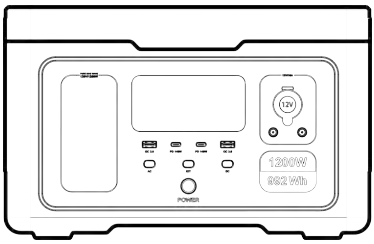
You can connect this product via APP to view information, control the device and personalize settings.

Scan the QR code to download our Smart Control APP.

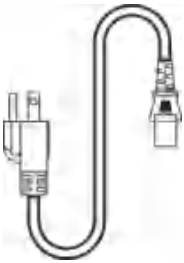
Avaliable On App Store

Avaliable On Google Play

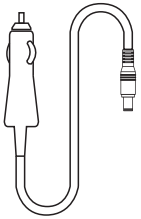
What's in the Box



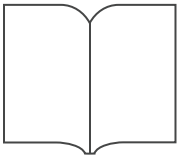
Power Station*1



AC Charging Cable*1



7909 to Car Charging Cable*1



User Manual*1

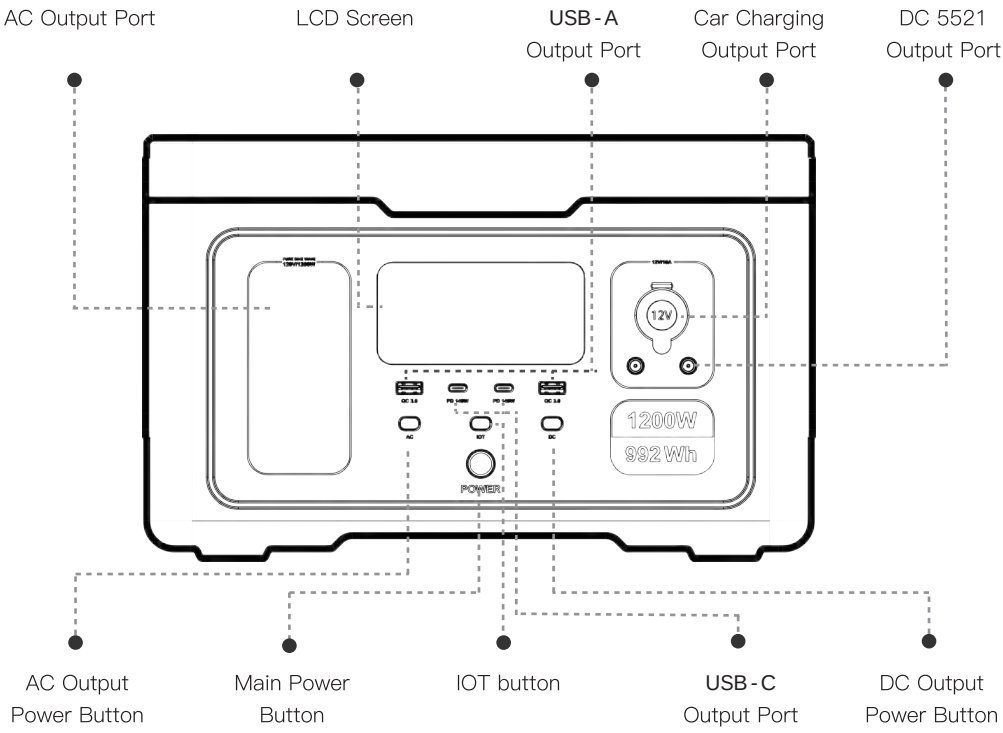
Warranty*1

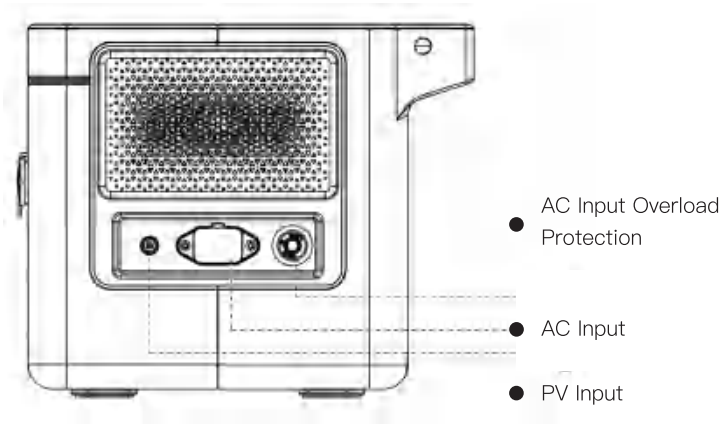
Parameter Specifications

Output		
AC Output	Rated Voltage	230Vac
	Rated Power	1200W
	Boost Mode Power	1500W
	Peak Power	3600W
	Frequency	50/60Hz
DC 12V & Car Lighter Output	Rated Voltage	12V
	Rated Current	10A
USB-A Output	5V3A; 9V2A; 12V1.5A【18W Max】	
USB-C Output	5V3A, 9V3A, 15V3A, 20V5A, 28V5A【140W Max】	
Input		
AC Charge Input	190~250Vac 3A 50/60Hz 300W	
PV Input	12~29Vdc MPPT: 16~26V 12A 240W Max	
Car Charge Input	12~15.5V 8.5A Max	
Battery		
Rated Capacity	992Wh	
Rated Voltage	32Vdc	
Battery Type	LiFePO4	
IP Grade	IP21	
Working Temperature	32°F~104°F (0°C~40°C)	
Storage Temperature	-4°F~149°F (-20°C~65°C)	
Dimension	14.1*10.7*8.92in (359*271.4*226.7mm)	
Net Weight	23.15lb (10.5kg)	

Product Description

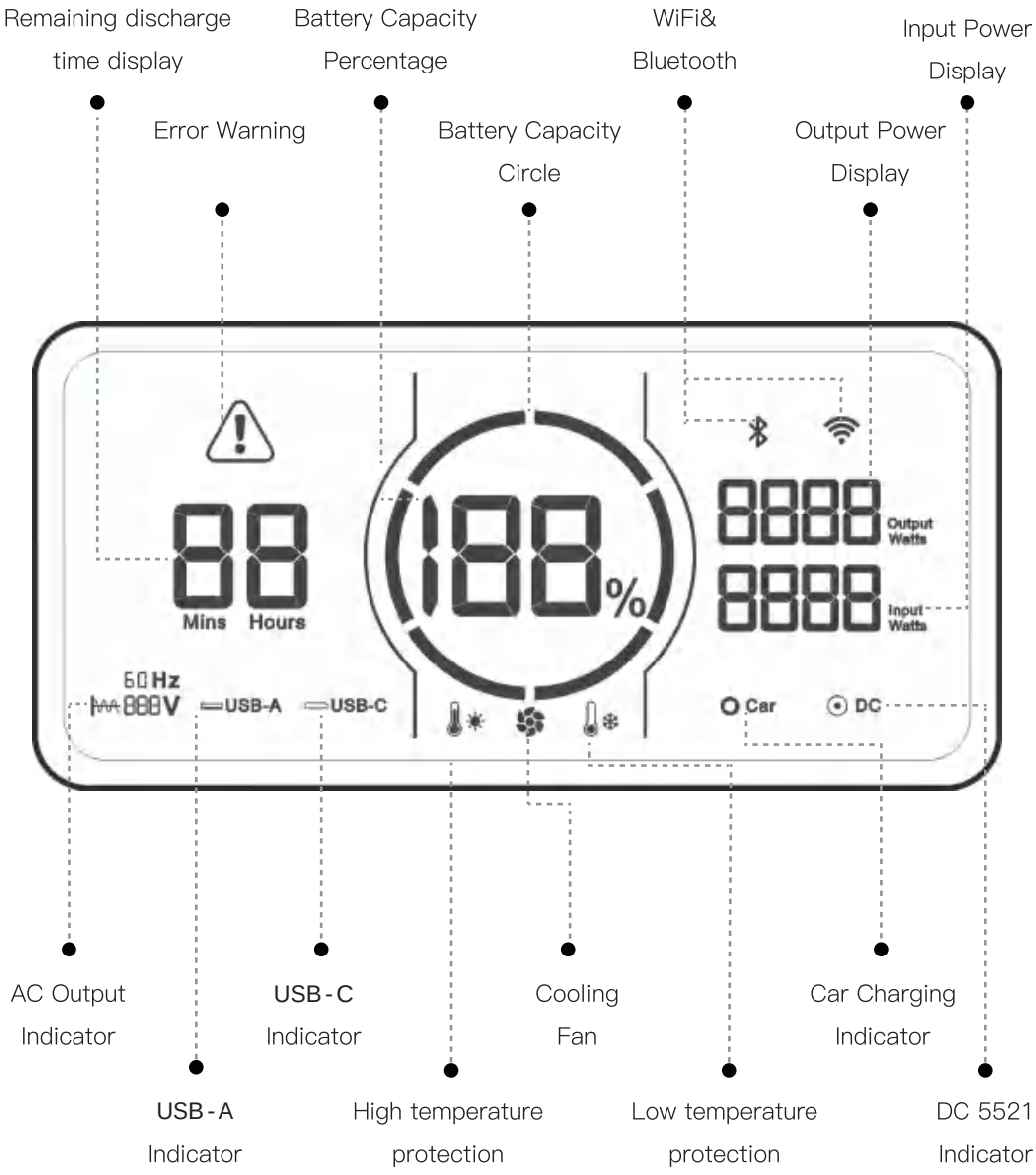
Function Description





Product Description

LCD Screen Description



Instructions for Use

Power ON:

Main Power:

1. Press and hold the main power button for 3 seconds.
2. The capacity circle and percentage will light up, confirming the screen is functioning.
3. The button light will light up and switch to a breathing mode.
4. The fan will start for a while, indicating the power is on.

AC/DC Output Power:

1. When the main power is on, press the button for the desired functional area.
2. The corresponding icon on the LCD will light up, indicating the function is active.

Power OFF:

Main Power:

1. Press and hold the main power button for 3 seconds.
2. Release the button when the screen displays ”OFF” and LCD Screen will go out.

AC/DC Output Power:

1. When the main power is on, press the button again for the desired functional area.
2. The corresponding icon on the LCD will go out, indicating the function is disabled.

Notice:

1. It is recommended to turn off DC and AC output power buttons before turning off main power button.
2. Input port on the side of the product functions independently of the main power button.

LCD Screen

Sleep Mode：

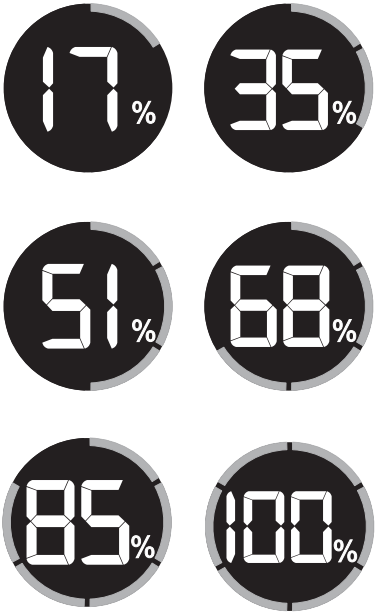
1. When the main power is on, short press the main power button, the LCD Screen will go out, while the power station is still functioning.
2. When the AC/DC output power button is on as well, it will switch to sleep mode automatically within 5 minutes of inactivity and the LCD screen will automatically go out.
3. When the power station is in operation, the LCD Screen will light up again.

Automatic Shut Down：

1. When the main power is on, it will automatically shut down after 5 minutes without operation.

   When the AC/DC output power button is on as well, it will automatically shut down after 6 hours without any load connected.

Battery Capacity Circle



The battery capacity circle indicates the battery remaining power and is equally divided into six segments: 17%, 35%, 51%, 68%, 85%, and 100%.

Discharge：The capacity segments will go out one by one and the rest luminous segments indicate the remaining capacity.

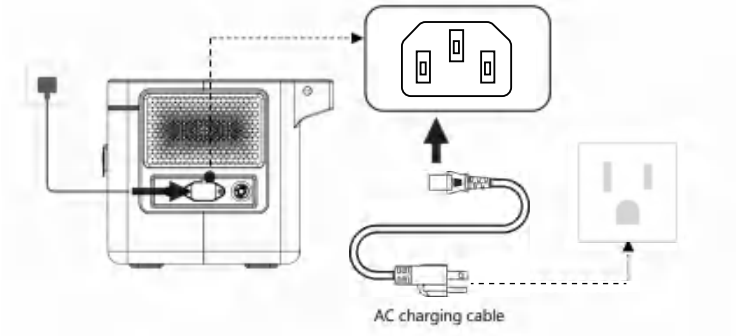
Charge：The capacity circle will flash clockwise and the real–time input power is displayed on the right side of the screen.(Input Watts)

Fully Charged：The Battery Capacity Circle will remain constant on and the fan icon will go out.

Reminder：Unplug when charging is complete.

Recharge Methods

AC Charging

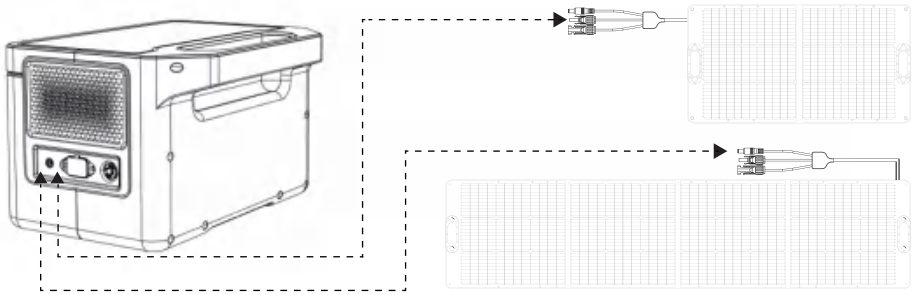


1. Use the AC charging cable to connect the power station as shown in the above picture.
2. The input power will be displayed on the screen, showing that the device starts charging.

Recharge Methods

Solar Charging

1. Connect 100W or 240W solar panel charging cable to the 7909 charging port on the power station.
2. The capacity circle on the screen will start rotating, and the input power will be displayed, indicating that the device is charging via solar power.



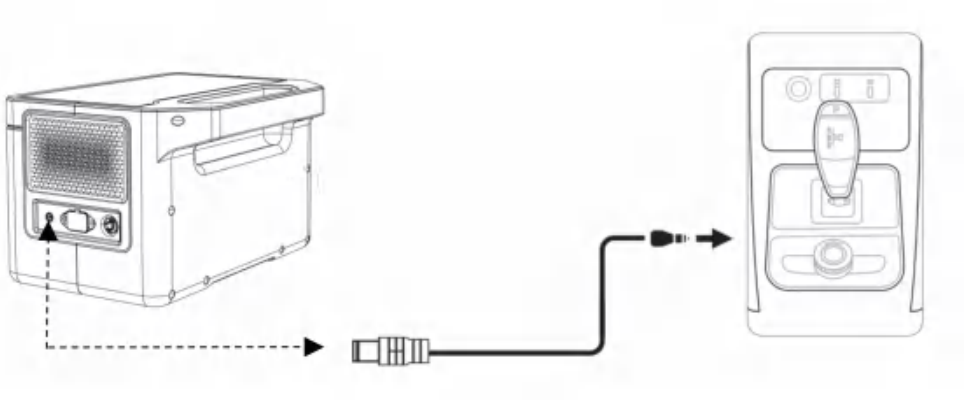
Notice:

1. Make sure that the solar panel is positioned at a perpendicular angle to the sun's rays for the best solar energy conversion efficiency.
2. Before connecting the solar panel, confirm that the open circuit voltage of the panel is within 29V to prevent damage to the power station.

Recharge Methods

Car Charging

1. The car charging port supports 12~15.5V/8.5A car charging input electricity.
2. To protect your car battery from power loss and prevent the car from being unable to start, please ensure that the car is started before connecting car carging cable to car lighter.
3. At the same time, please check if the car charging port and the car lighter of the car charging input cable are in good connection.



Other Functions

Boost Mode

To prevent operational failures caused by overload protection, the power station automatically activates Boost Mode when the total output power exceeds the rated 1200W output power. It enables the power station to supply up to 1500W power to high-wattage devices.

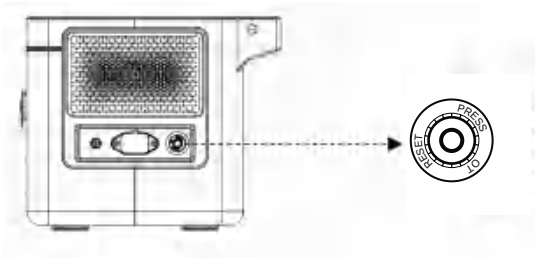
Notice:

1. Boost Mode is enabled by default.
2. Boost Mode is not available when the AC output on and AC charging are turned on at the same time. In this case, the power station is in the bypass mode.
3. The boost mode is suitable for most electrical appliances such as heating and motor-driven equipment, some appliances equipped with voltage protection like precision instrument are not applicable to the boost mode.

Frequency Switching

1. Turn off the AC and DC output power buttons.
2. Simultaneously press and hold DC output power button and main power button for 3-5 seconds, till the frequency sign flashes on the screen.
3. Press AC output power button to choose frequency "50" or "60".
4. Long press the main power to confirm, then the abbreviation "SUC" will flash and the battery circle will appear on the screen.
5. Long press the main power button to exit the setting mode.

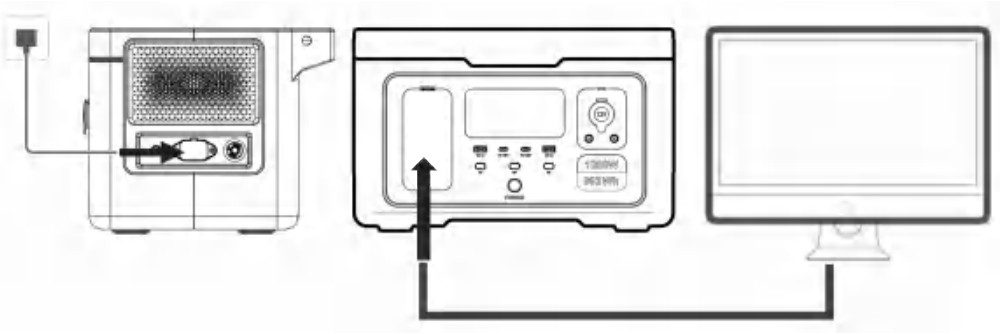
AC Input Overload Protection



If the AC input receives a continuous current that is greater than 10A, the protector will pop out. And the circuit will be cut off to protect the power station.
Please disconnect all the input connections for safety reason, and make sure the input current is lower than 10A. Then press the Overload Protection button to resume charging.

EPS(Emergency Power Supply) Function

1. EPS(Emergency Power Supply) function is enabled by default.
2. Connect the power station to a wall outlet with the AC charging cable, then press the AC output power button and connect your devices. In this case, AC power comes from the power grid instead of battery itself.
3. If the power grid suddenly cuts off, the power battery will automatically take over the charging process within 20ms.



EPS(Emergency Power Supply) Function

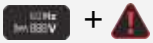
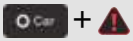
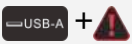
Notice:

1.This is not a professional UPS function and does not support 0ms switching. Thus, do not connect the power station to equipment requiring an uninterrupted power supply such as data servers, work station and so on.

2. It is recommended to charge only one device at a time if you would like to use EPS function. Please test and make sure the device is compatible with EPS function.

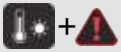
3.The total input and output power to the power station should lower than 1200W. Otherwise, the power station will report an overload warning and shut down in 1 minute.

Error Code & Trouble Shooting

Error Code	Status	Cause	Solution
E000	 Flashing, no output	AC output short circuit protection	Press the AC output power button to restore.
E001	Flashing, no output	Output overload protection	Press the AC and DC output power buttons to restore.
E002	AC/DC output ion flashes and the corre-spoding port has no output.	AC Battery low voltage protection	Battery capacity below 20%, load ⩽ 300W, charge the device in time and restart the corresponding function button to restore.
E003	Flashing, no output	AC output over voltage and low voltage protection	Press the AC output power button to restore.
E004	Flashing, no output	Abnormal AC input frequency	Automatically restores after frequency returning to normal.
E005	Flashing, no output at all ports	High and low bus voltage or over current	Press the AC output power button to restore.
E006	Flashing, no output at all ports	Inverter over temperature	Stop charging and rest the device to restore.
E010	 Flashing, no output at all ports	Overload and short circuit of the Car lighter	Press the DC output power button to restore.
E011	 Flashing, no output at all ports	Overload and short circuit of the USB–A port	Press the DC output power button to restore.

If the issue persists, contact support.

Error Code & Trouble Shooting

Error Code	Status	Cause	Solution
E012	Flashing, no output at all ports	Overload and short circuit of the USB–C port	press the DC output button to restore.
E013	E013 + no output at all ports	Low voltage protection of battery over discharge	Restart the device after charging it.
E017	E017 + flashing	Hardware problem	Press the main power button to restore.
E020	Flashing	BMS communica tion failure	Check BMS communication cable.
E021	E021 flashing, no output at all ports	Over voltage of single battery cell	Reset the device and wait for rhe cell voltage returning to noraml.
E022	E021 flashing, no output at all ports	Under Voltage of single battery cell	Connect the AC charging cable and charge the device until the voltage returns to normal.
E023	E023 flashing, no output at all ports	Battery total voltage too high	Rest the device and wait for the cell voltage returns to normal.
E024	Flashing, all outputs off	Battery total voltage too high	Connect the AC charging cable and charge the device until the voltage returns to normal.
E025	 Flashing, no output at all ports	High temperature of battery cell	The device will automatically return to normal when the temperature returns to normal.
E026	Flashing, no output at all ports	Low temperature of battery cell	The device will automatically return to normal when the temperature returns to normal.
E027	flashing AC function off, DC output normal, AC greater than 1500VA or AC+DC greater than 1500W	System overload, AC output is over 1500VA or the total AC and DC output is over 1500W.	Press the AC power button to restore.

Storage and Maintenance

1. Please use a dry, soft, clean cloth or paper towel to gently wipe the product.
2. Please store the power station away from water resources, heat resources, metal objects and chemical substances.
3. Store it in a dry, well-ventilated place at room temperature. The recommended storage temperature is -4°F~149°F (-20°C~65°C).
4. Charge it to around 60% capacity and turn off the product before storing it.
5. For long-term storage, it is recommended to fully discharge and then fully charge the battery(0%-100%) once every 3 months. And the warranty will be voided if the power station has not been charged or discharged in 6 months.

FAQ

1. What type of battery does the product use?

The product uses high-quality lithium iron phosphate (LiFePO4) batteries.

2. What equipment can be connected to the AC output port?

The AC output port has a rated power of 1200W and peak power of 3600W, making it suitable for most household appliances. However, it is recommended to confirm the power requirements of your appliances and the total power consumption of all connected devices is below the rated power.

3. How long can the product provide power to my appliance?

The LCD screen displays the estimated runtime based on the current power usage. For devices with stable power consumption, the estimated runtime will be close to the time shown on the screen.

4. Can this product be charged using a gasoline or diesel generator?

Yes, it can be charged with a generator that has a built-in pure sine wave inverter. The company will not be responsible for any product damage caused by using a generator without this feature.

5. How can I tell if the product is charging?

When charging, the capacity circle on the LCD screen will rotate, and the input power will be displayed.

6. Can this product be brought on board a plane?

No, this product cannot be brought on board a plane due to aviation regulations for lithium-based batteries.

7. Is the actual output capacity of the product the same as the capacity specified in the user manual?

The capacity shown in the user manual is the rated capacity of the battery pack. Due to efficiency losses during charging and discharging, the actual output capacity may be slightly lower than the rated capacity.