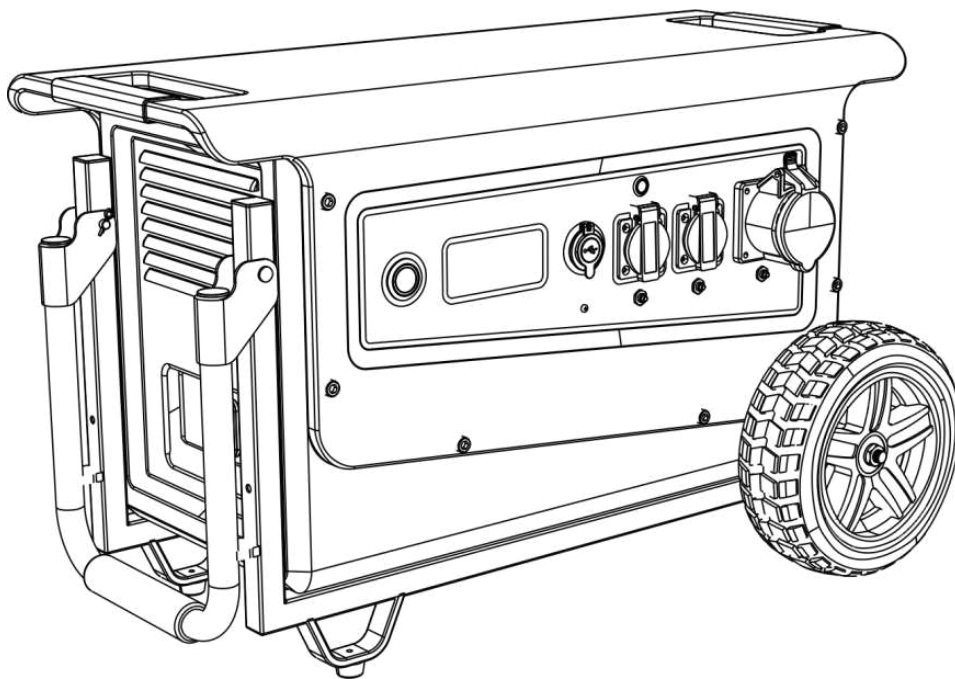




5000W Outdoor Waterproof Energy Storage Power



User Manual

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Disclaimer

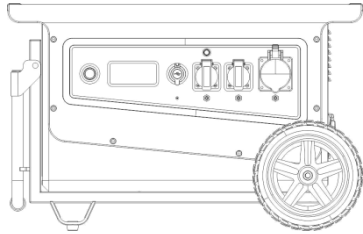
Before use, please read this user manual thoroughly to ensure proper operation with full understanding. After reading, keep the manual in a safe place for future reference. Failure to operate this product correctly may result in serious injury to yourself or others, as well as damage to the product and property loss. By using this product, you acknowledge, accept, and agree to all the terms and content outlined in this document. The user assumes full responsibility for their actions and any resulting consequences. The company shall not be liable for any losses caused by failure to follow the instructions in this user manual.

In compliance with applicable laws and regulations, the company reserves the final interpretation rights for this document and all related product documentation. Updates, revisions, or terminations may occur without prior notice.

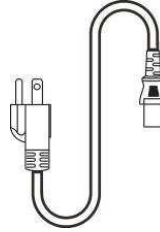
- The company is not responsible for any damages caused by force majeure (such as fire, typhoon, flood, earthquake) or by user negligence, misuse, or operation under abnormal conditions.

- Any losses caused by the use of non-standard connectors will not be compensated.
- The company assumes no liability for damages resulting from failure to operate the product according to the instructions in this manual.

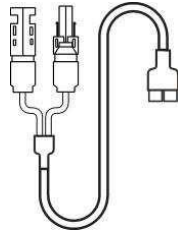
Product List



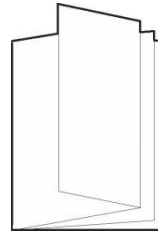
Energy Storage Power Unit



AC Charging Cable



Anderson to MC4 Adapter



User Manual & Warranty Card

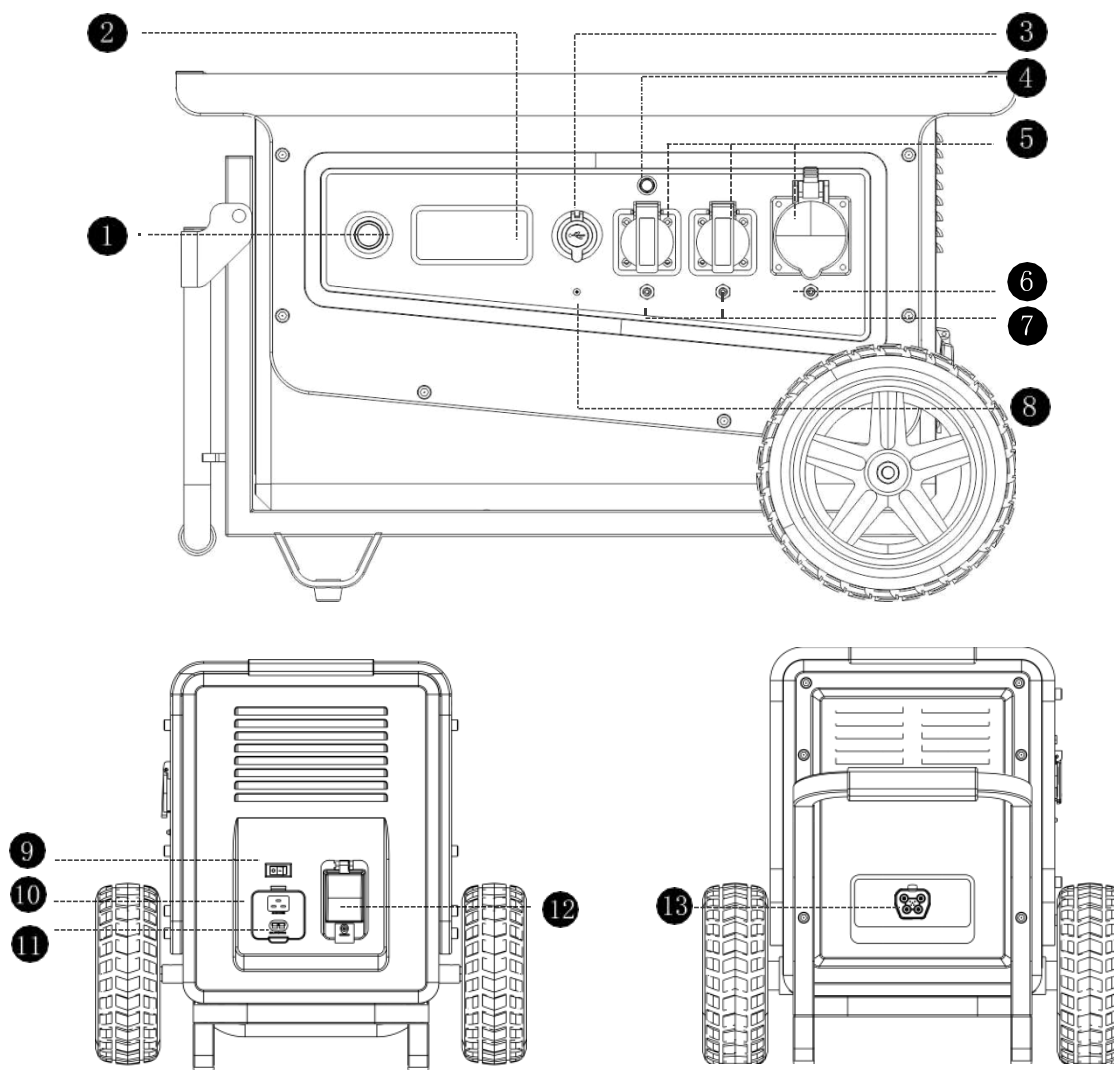
Product Introduction

Specifications

Output Technical Specifications				
AC Output	Rated Voltage	230Vac		
	Rated Power	5000W		
	Peak Power	7000W		
	Frequency	50Hz		
USB-A Output	5V/3A;9V/1.8A;12V/1.5A(18W Max)			
USB-C Output	5V/3A;7V/2.4A;9V/1.8A;12V/1.5A			
Input				
AC Charging Input	190~250Va.c	16AMax	2500W	Max
PV (Anderson) Input	12~150Vd.c	15A Max	2100W	Max
Battery				
Rated Capacity	5000Wh			
Rated Voltage	48 Vdc			
Battery Model	LiFePO4			
General Information				
Operating Temperature	-20 ~ 50℃			

Size	33.6*20.2*19.8in(852.5*512*502mm)
Net Weight	150.57lb (68.3kg)

Function Description

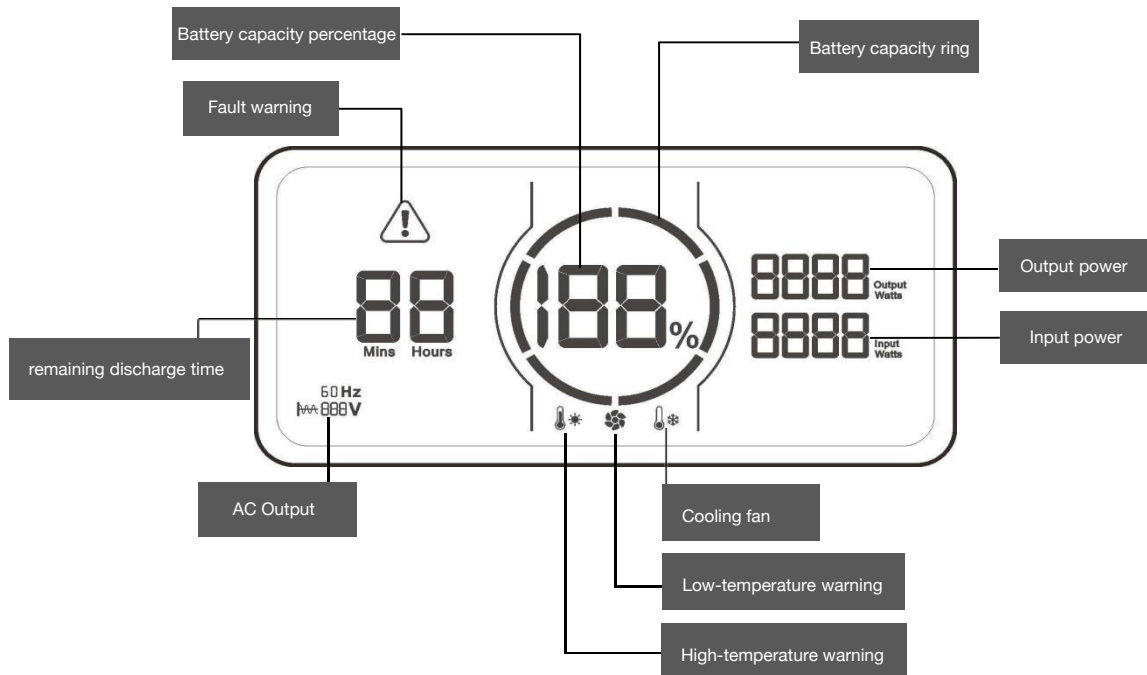


1、 Main Power Button
 2、 LCD Display Screen
 3、 USB-C & USB-A Output Ports
 4 、 AC Output On/Off Switch
 5、 AC Output Sockets

6、 Overcurrent Protection Switch (30A)
 7、 Overcurrent Protection Switch (16A)
 8、 Grounding Terminal
 9 、 Fast&Slow Charging Power Conversion

10 、 AC Charging Input Port
 11、 Anderson Input Port
 12 、 Circuit Protection Switch
 13、 External Battery Pack Connector

Screen Description

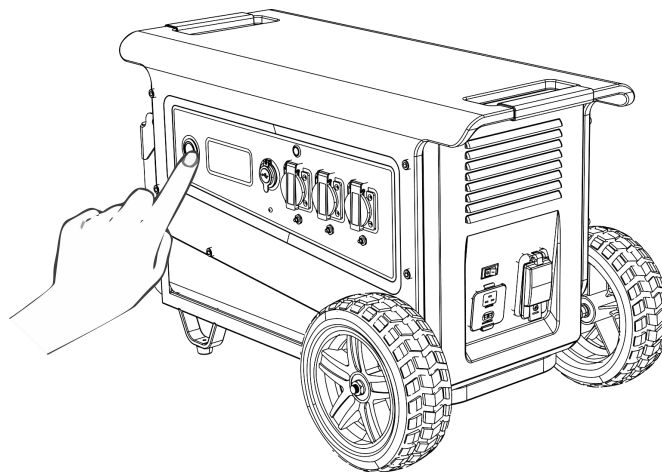


User Instructions

The LCD battery capacity ring indicates the remaining power. The capacity ring is divided into six segments, representing approximately 17%, 35%, 51%, 68%, 85%, and 100% of the total capacity. When in use, the LCD screen will automatically wake up. During discharge, the blue capacity segments gradually disappear, indicating the remaining capacity. During charging, the blue battery capacity ring flashes clockwise along the track, indicating that the device is currently charging. The number displayed on the right side of the energy ring shows real-time input power. Once fully charged, all blue capacity segments will be fully illuminated and remain steady. After charging is complete, please unplug the charger.

Press and hold the power button to turn on the device. The LCD screen will light up, and the power button indicator will remain steadily illuminated. To turn off the device, press and hold the power button for approximately 3 seconds until "off" appears on the LCD screen, then release the button. The device will shut down, and the LCD screen will turn off.

When the main power button is on, pressing any function button will activate the corresponding function icon on the LCD screen, indicating that the function is enabled. Pressing the function button again will turn off the icon, indicating that the function has stopped.



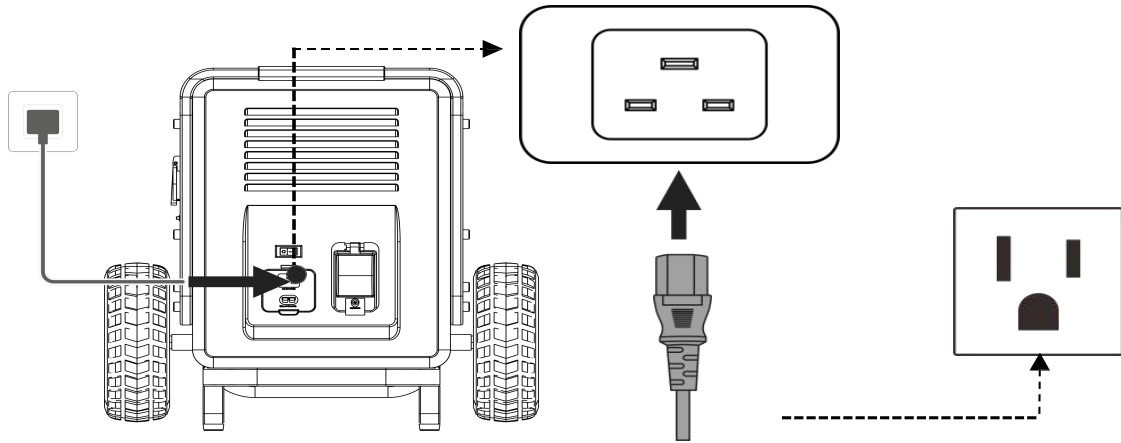
Note:

- 1、 After turning on the device, a short press of the main power button will turn off the LCD screen, but the device will remain powered on.
- 2、 If no operation is performed for 5 minutes, the device will enter sleep mode, and the LCD screen will turn off automatically. The screen will light up again when there is a load change or user operation.
- 3、 The default standby time of this device is 2 hours. If no other output power button is turned on and no load is connected, the device will automatically shut down after 2 hours.

Charging the Device

AC Charging

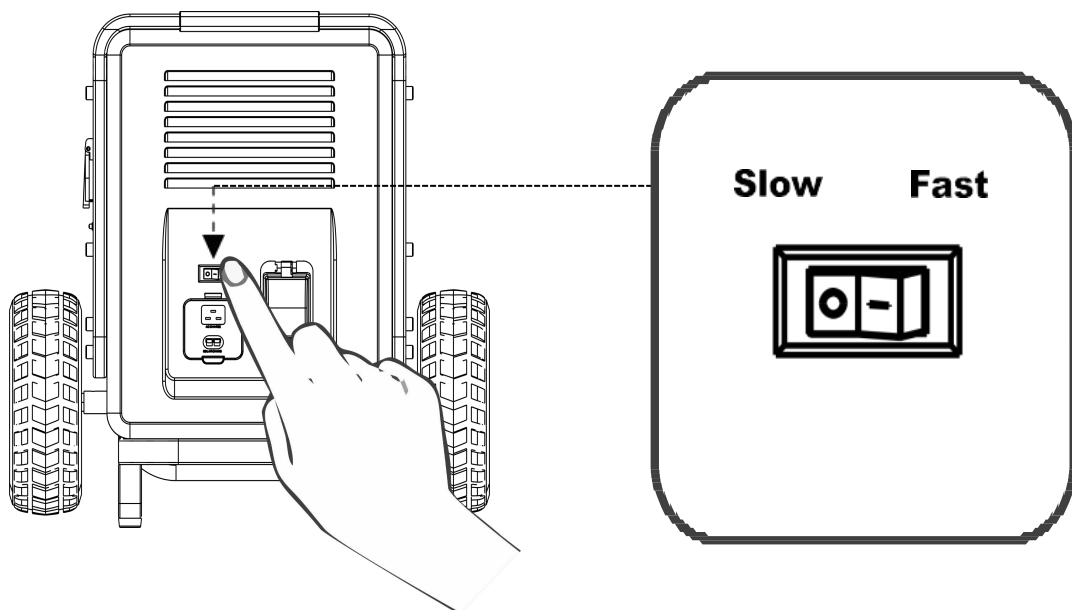
To charge the device using the included AC charging cable, manually turn on the input circuit breaker protection switch. Connect as shown in the diagram. Once a power input reading appears on the screen, the device has started charging. The maximum supported fast charging power is 2500W, and the device can be fully charged in approximately 2.5 hours.



Fast & Slow Charging Mode Switching Instructions

When the product's AC output is turned off, setting the switch to "SLOW" enables slow charging with an input power of 1250W, while setting it to "FAST" enables fast charging with an input power of 2500W.

Note: The fast/slow charging function must be turned off before switching modes.

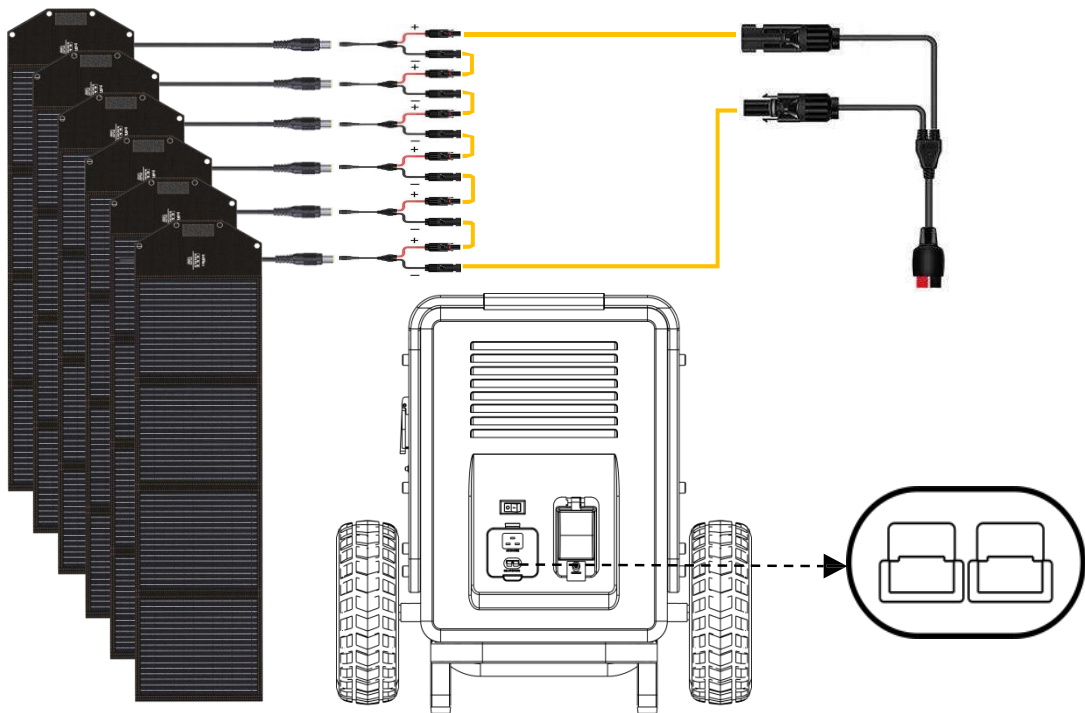


Solar Charging

Using the accessory "Anderson to MC4 adapter cable" ×1 and "MC4 to 7909 adapter cable" ×6, connect the standard solar panels to the device. Up to 6 standard solar panels can be connected, and the charging time is approximately 3.5 hours to fully charge.

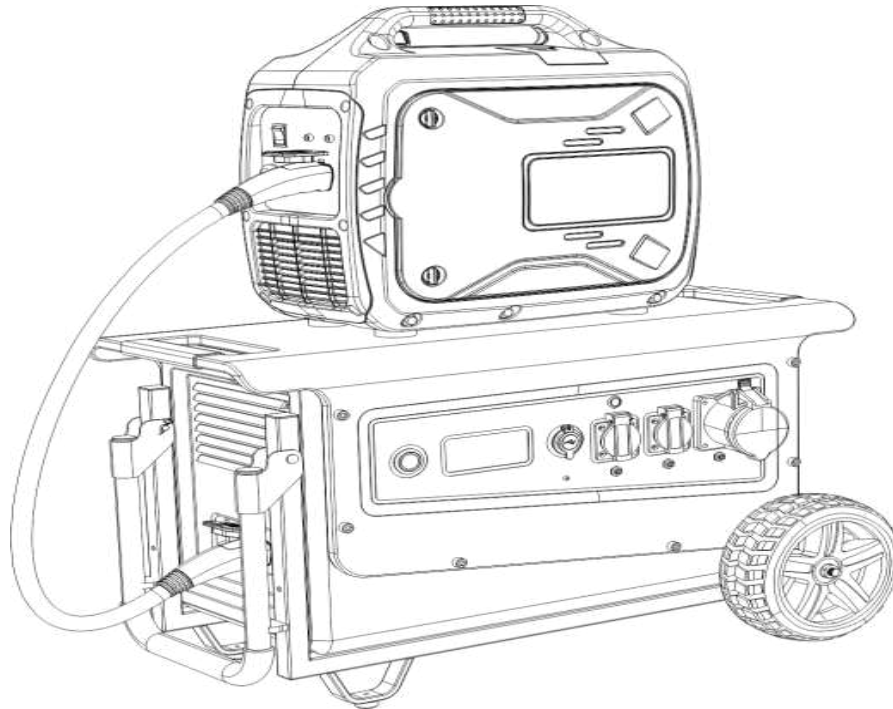
Note:

- 1、 The solar charging cable (MC4 to Anderson adapter cable) and solar panels need to be purchased separately.
- 2、 When using the provided solar panels to charge this product, please follow the instructions in the user manual for proper connection.
- 3、 Before connecting the solar panels, please confirm that the open-circuit voltage of the solar panel is within 150V to avoid damage to the product.



Generator Charging

This device supports generator charging. Use the product-specific cables to connect the generator to the device. When the energy storage product's battery level drops below 20%, the generator will automatically start, and the input power will be displayed on the energy storage product's screen, indicating the start of charging. When the battery level exceeds 90%, the generator will stop working, and charging will end.



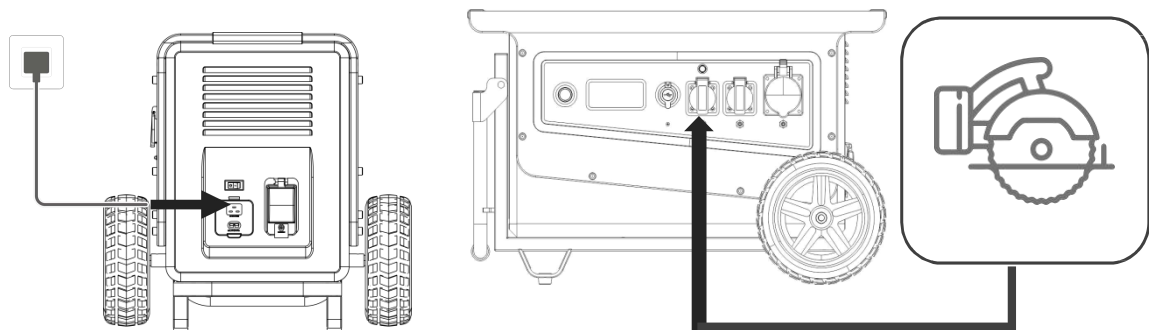
Note:

- 1、 Please follow the generator's user manual to operate the device.
- 2、 If multiple charges are required within a period, no action is needed after the generator automatically shuts down when the battery reaches 90%. The generator will restart automatically when the battery level drops below 20% to continue charging.
- 3、 During generator operation with the energy storage product, do not unplug or insert the cables carelessly to avoid damage to the device.
- 4、 In case of emergency during generator use, press the emergency stop button to stop the generator.
- 5、 Ensure the product is turned off before connecting to the generator. The company will not provide warranty services if the device is damaged due to improper connection.

Other Functions

EPS

When the device is powered on, manually activate the AC input circuit breaker. This device supports EPS (Emergency Power Supply) functionality. By connecting the AC charging cable to the power grid and the device's AC input port, and with the AC input circuit breaker in the "ON" position, the electrical device can operate using the device's AC output port (at this time, the AC power is supplied from the grid, not from the battery). In the event of a sudden power outage, the device can automatically switch to battery power mode within 20ms.

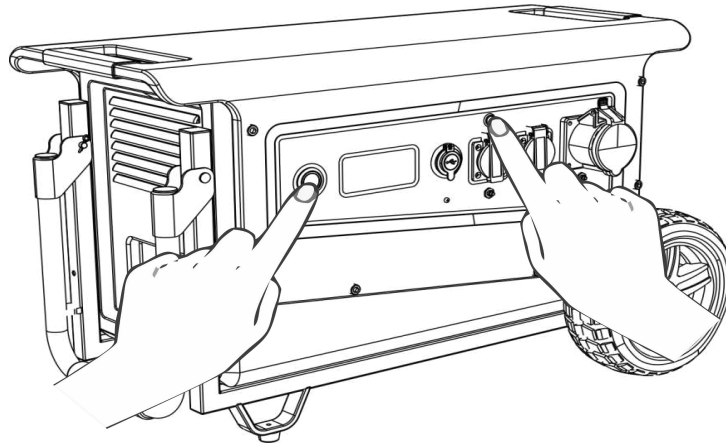


Note:

This function is a non-professional UPS feature and does not support 0ms switching. Do not connect devices that require uninterrupted power supply (such as data servers and workstations) to this feature, or ensure compatibility by testing multiple times before use. It is recommended to use only one device at a time, with the device's operating power not exceeding 5000W (input + output). When the load and charging reach 5000W, the device will enter overload protection, cutting off the output after one minute. For loads exceeding 5000W, the output will be cut off after a 1-second delay. Avoid using multiple devices simultaneously to prevent overload protection from triggering. The company is not responsible for any device malfunction or data loss if the device is used incorrectly or without following the instructions.

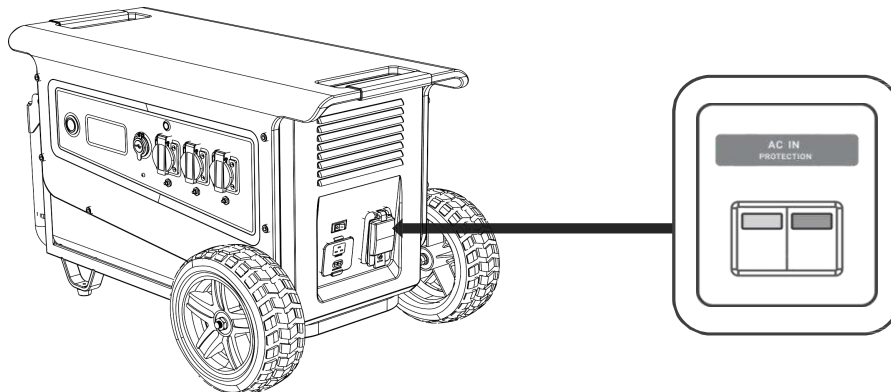
Frequency Switching

- 1、 In the powered-on state, turn off the AC output, then press and hold the power button and AC button simultaneously to enter the frequency switching menu.
- 2、 Press the AC button to switch frequencies. The frequency that needs to be set will continue to flash.
- 3、 Long press the power button to set the frequency. Once successfully set, "SUC" will appear, and then long press the power button to exit the settings menu.



Circuit Breaker Protection

- 1、 When charging via AC, manually turn on the AC IN circuit breaker protection switch.
- 2、 When using the AC output with a load, turn on the AC switch; otherwise, the output port will have no output.
- 3、 In EPS function mode, both the AC IN circuit breaker and AC switch need to be turned on (Load priority: Charging + Load < 5000W).



Frequently Asked Questions

1. What type of battery does the product use?

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

2. What devices can the product's AC output power?

The AC output port of this product has a rated power of 5000W and a peak power of 7000W, which can power most household appliances. However, before use, it is recommended that you confirm the power rating of your appliances and ensure that the total power of all connected devices does not exceed the rated power.

3. How can I determine how long the product can power devices?

The product's LCD display shows the estimated runtime. For devices with stable power consumption, this time can be used as an estimate.

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

When charging, the LCD display will show the remaining charging time, and the battery percentage indicator will start cycling, showing the input power.

5. How do I clean the product?

Use a dry, soft, clean cloth or tissue to wipe the product.

6. How should I store the product?

When storing, first turn off the product and store it in a dry, well-ventilated room at room temperature. Do not place the product near water sources. For long-term storage, it is recommended to charge and discharge the battery every three months to prolong the product's lifespan.





















7. Can this product be taken on an airplane?

No, it cannot.

8. Is the actual output capacity of the product the same as the capacity listed in the user manual?

The capacity listed in the user manual is the rated capacity of the product's battery pack. Due to efficiency losses during charging and discharging, the actual output capacity of the product will be lower than the capacity listed in the manual.

Fault Codes and Troubleshooting

Fault Code	Fault Information	Status	Remarks
E000	AC Output Short Circuit Protection	 +  , Flashing, no output	Needs manual reset by pressing the AC power button.
E001	Output Overload Protection	 +  +  Flashing, no output	Function icon shows which port is overloaded. Overload protection requires manual reset, UPS overload 5000W for 1 second.
E002	AC Battery Voltage Low Protection	Corresponding function icon flashing, no output from corresponding port	Reset by restarting the corresponding function button, charge promptly.
E003	AC Output Overvoltage/Undervoltage Protection	 Flashing, no AC input	Press the AC output button to reset.
E004	AC Input Frequency Abnormality	 Flashing, no AC input	Frequency will automatically recover when normal.
E005	Bus High/Low Voltage, Overcurrent	 Flashing, no output from all functions	Requires manual reset by pressing the AC power button.
E006	Inverter Overtemperature, Charging Overtemperature Protection	 +  +  Flashing, no output from all functions	Temperature recovery will automatically restore functionality.
E007	Photovoltaic Input Overvoltage/Undervoltage Protection	No input from photovoltaic charging	Charging will resume once photovoltaic input voltage is normal.
E020	BMS Communication Fault	 Flashing, no output from all functions	Check the BMS communication cable.
E021	Battery Cell High Voltage Alarm	Battery capacity percentage flashing	Leave the device idle, the cell voltage will automatically recover.
E022	Battery Cell Low Voltage Alarm	Battery capacity percentage flashing	Connect the AC charging cable, charge until voltage recovers to normal.
E023	Battery Total Voltage Overvoltage	E023 code flashing, output not closed	Leave the device idle, the cell voltage will automatically recover.
E024	Battery Total Voltage Undervoltage	 Flashing, no output from all functions	Connect the AC charging cable, charge until voltage recovers to normal.
E025	Cell High Temperature	 +  Flashing, no output from all functions	Temperature recovery will automatically restore functionality.
E026	Cell Low Temperature	 +  Flashing, no output from all functions	Temperature recovery will automatically restore functionality.
E027	System Overload	 Flashing, AC function disabled, DC normal output	AC greater than 5200VA or AC + DC greater than 5200W; requires manual reset by pressing the AC power button.
E028	Charging Overtemperature	 +  Flashing, device stops input	Temperature recovery will automatically restore functionality.

Maintenance and Care

- 1、Store the product in a place away from water sources, heat sources, and metal objects.
- 2、To extend the battery's lifespan, it is recommended to use or store the product in an environment between 20°C and 30°C.
- 3、For long-term storage, charge and discharge the product once every 3 months (first discharge to 0%, then fully charge it, and finally discharge to 60% for long-term storage). Products that have not been charged or discharged for over 6 months will not be covered under warranty.
- 4、For safety, do not store the product for extended periods in environments where the temperature exceeds 45°C or is lower than -10°C.
- 5、If the product's battery is severely depleted and left unused for an extended period, the product will enter deep sleep mode. It must be charged before use to restore its functionality.