

F4P[®]

600W Portable Power Station

Ideal portable emergency power for outdoor camping and home use.



100~120V

User Manual

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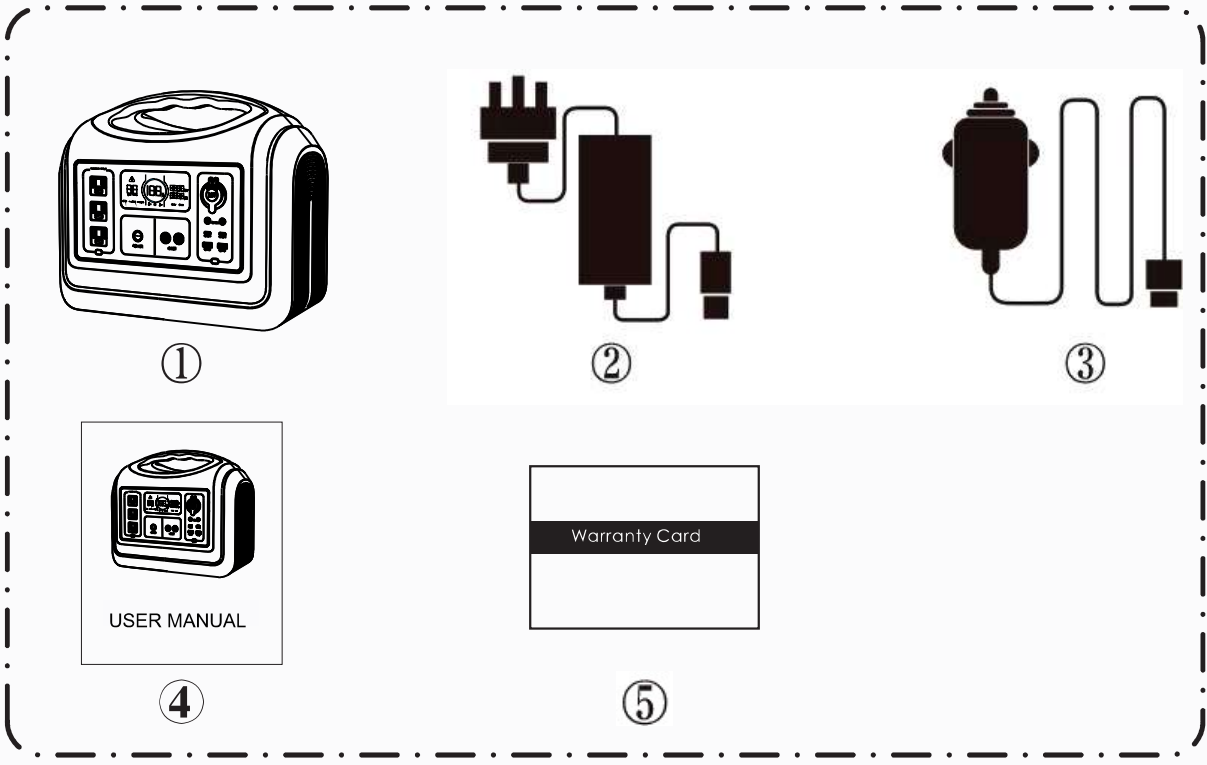
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1. Disclaimer

1. The Company is not responsible for any damage caused by force majeure (e.g. fire, typhoon, flood, earthquake or customer's negligence, abuse or use in other unusual circumstances).
2. The Company is not responsible for the loss caused by the use of non-standard connectors.
3. The Company is not responsible for any damage caused by the wrong operation which didn't follow the instructions of user manual.

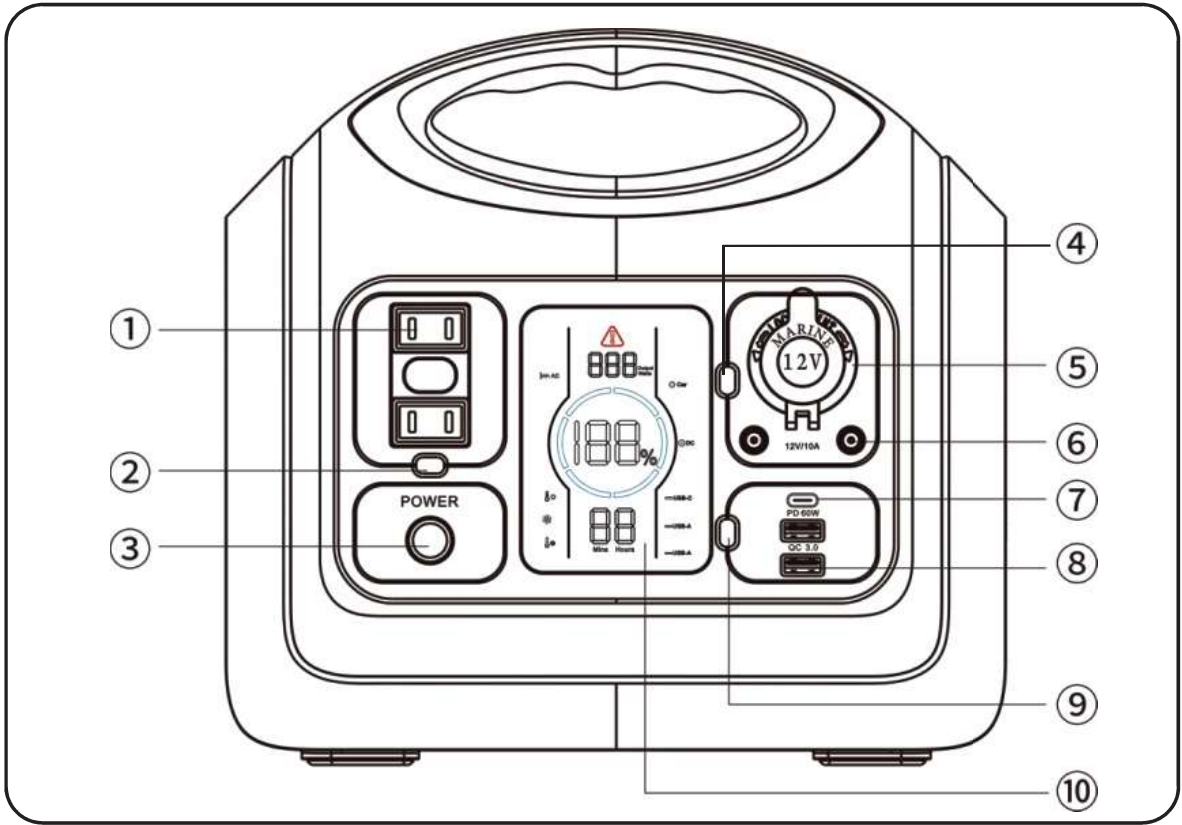
2. Product List

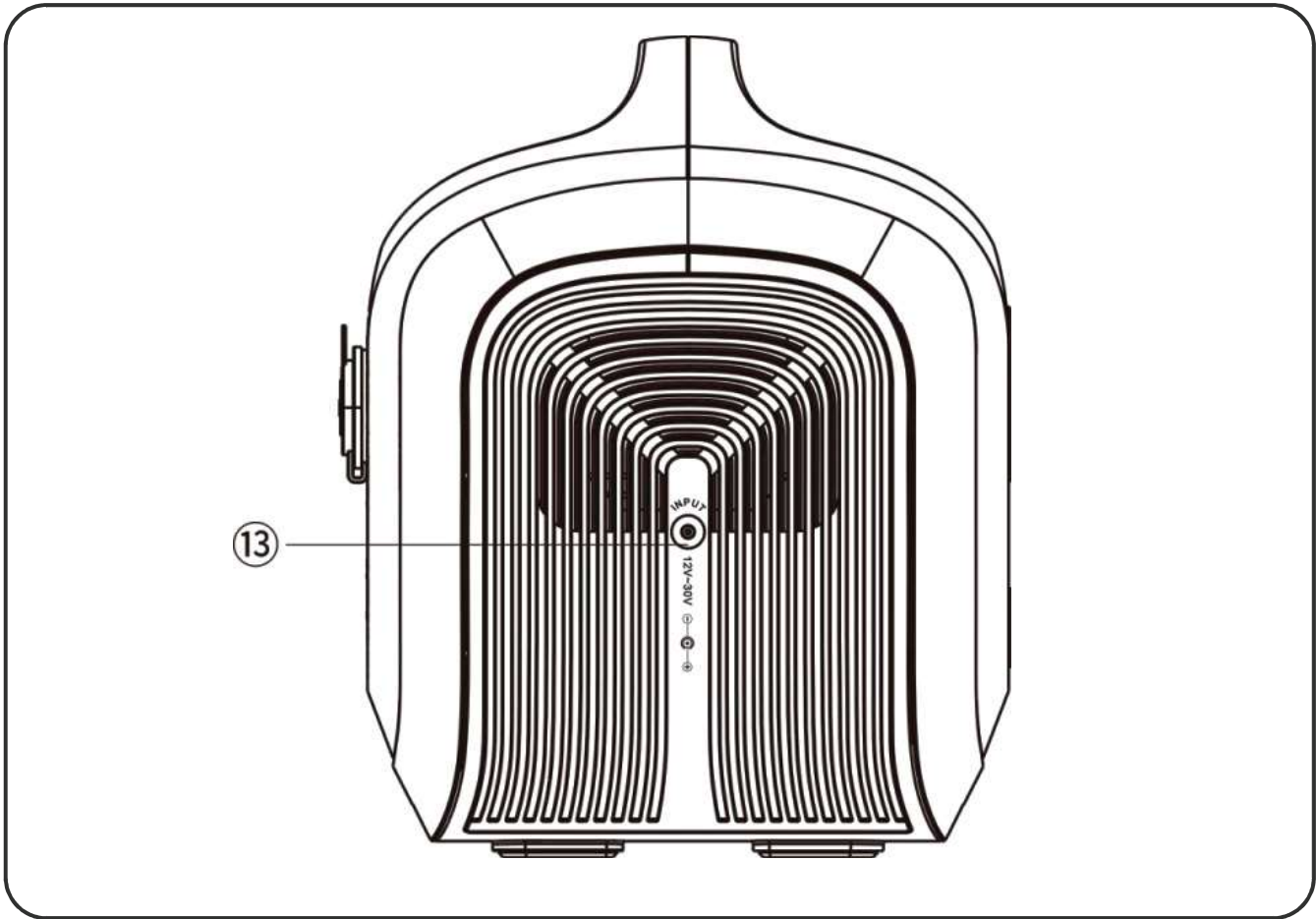
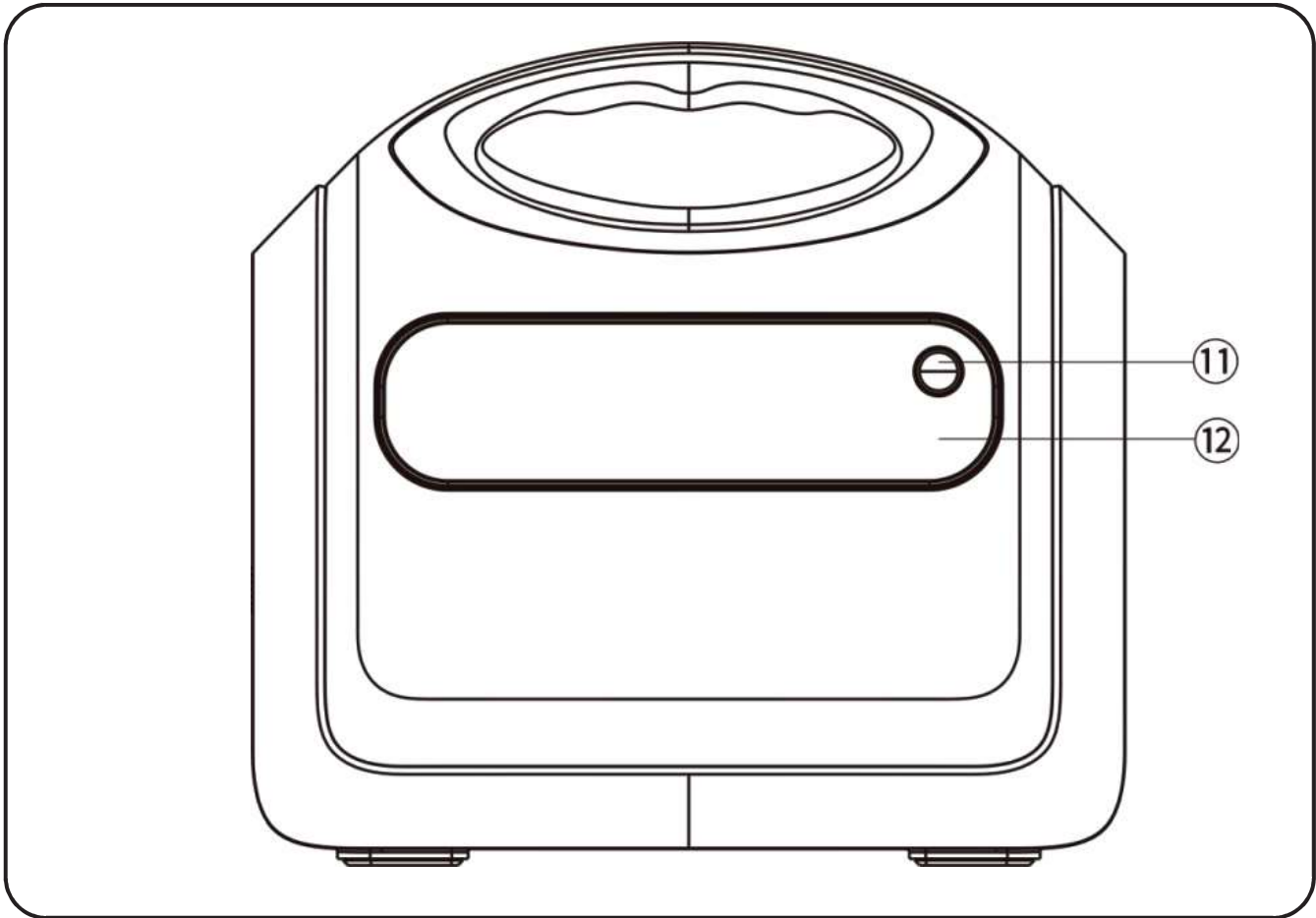
No.	Items	Qty.
1	Portable Power Station	1
2	AC Adapter	1
3	7909 connected wire for Vehicle's 12V Output	1
4	User Manual	1
5	Warranty Card	1



3. USER MANUAL

3.1 Function Description





1.AC Output Port

2.AC Output Power On/Off Switch

3.Main Power On/Off Switch

4.Car Charger and DC5521 Output Ports Power On/Off Switch

5.12V Car Charger Output Port

6.12V DC5521 Output Port

7.USB-C Input & Output Port

8.USB-A Output Port

9.USB-C & USB-A Output Power On/Off Switch

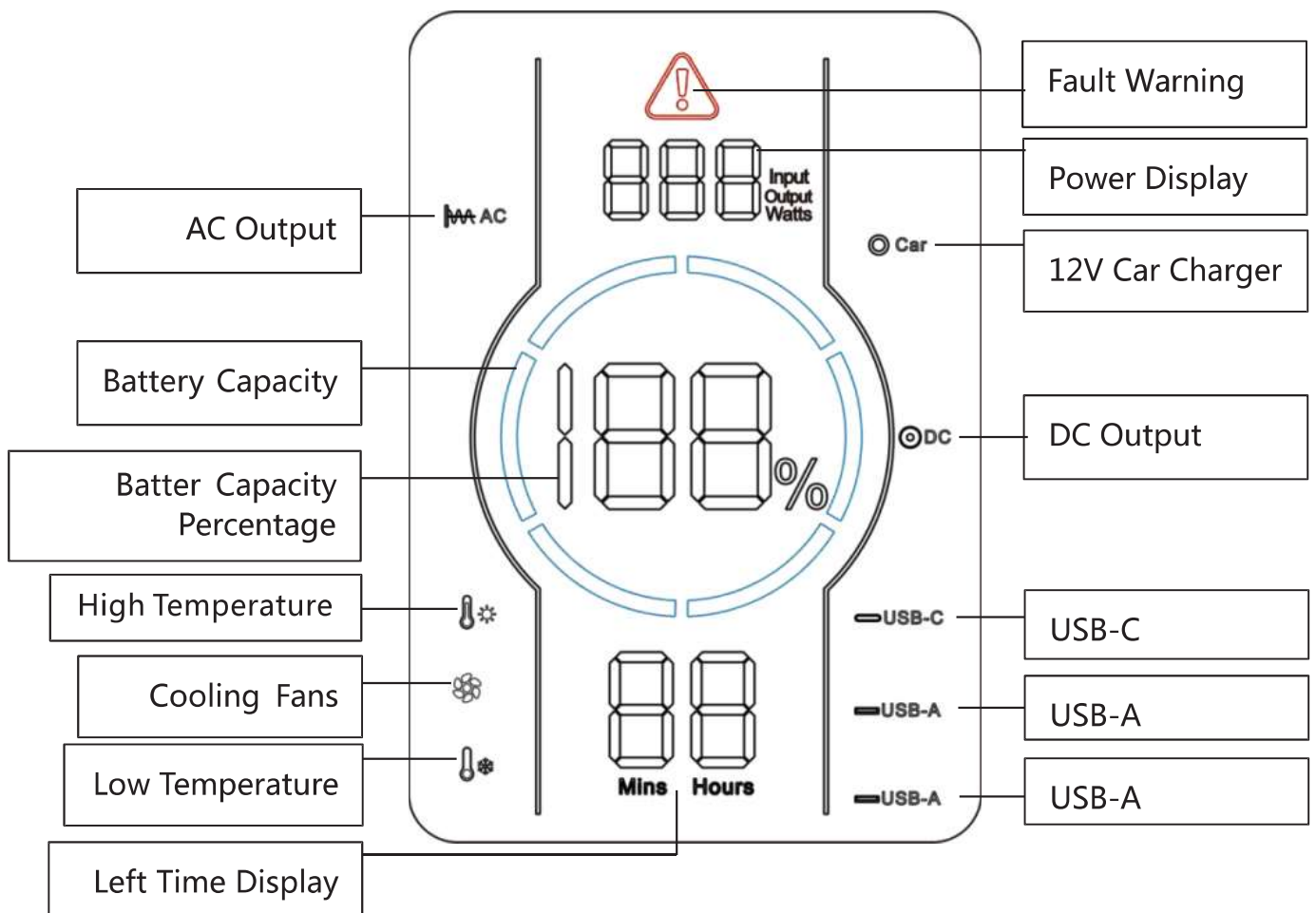
10.LCD Screen

11.LED Light Power On/Off Switch

12. LED Light

13.7909 Recharging Input Port

3.2 LCD Screen Description



4. Direction of Use

The LCD Battery Capacity Ring indicates the left capacity. The ring has been divided into 6 equal segments, accounting for about 17%~35%~51%~68%~85%~100%. When discharging, the blue segments of the ring will disappear according to the real-time left capacity. When recharging, the blue ring will be

flashed clockwise along the trajectory, and the digital number will show you the real-time input charging power. After full charge, the whole blue ring will light up and remain stable. After charging, please unplug the adapter.

CAUTION

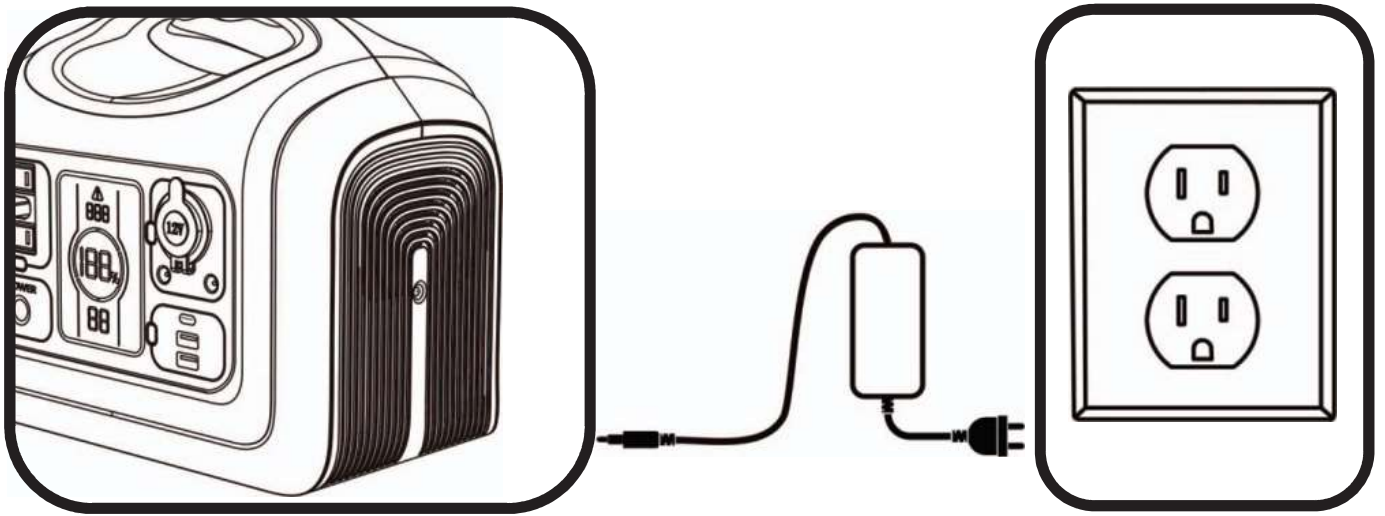
- There will be efficiency loss of the input power which displays on the LCD screen.
- Please charge the Product at the ambient temperature of 0-40°C.
- Must make sure that the connection is in good contact , and adapter work normally, otherwise, it may cause potential safety hazards.
- In order to reduce the power consumption and prolong the battery lifetime of the Product, please turn off all the switches when it is not in use.

4.1 5 Different Recharging Ways

4.1.1 Standard AC Adapter

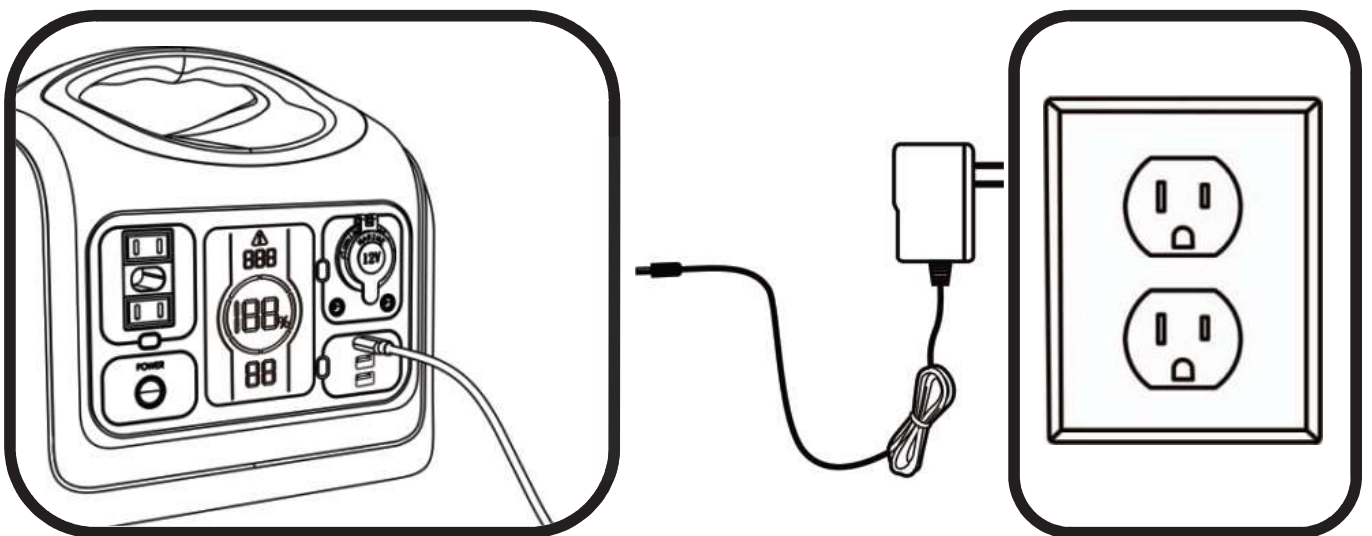
Please connect the 7909 input charge port of the Product and wall outlet with our standard 100W AC Adapter , it will take about 7.5

hours to full charge.



4.1.2 USB-C Charger

Please connect the USB-C port of the Product and wall outlet with USB-C charger which support the PD communication protocol, it will take at least 10 hours to full charge, depending on the input power of USB-C charger.

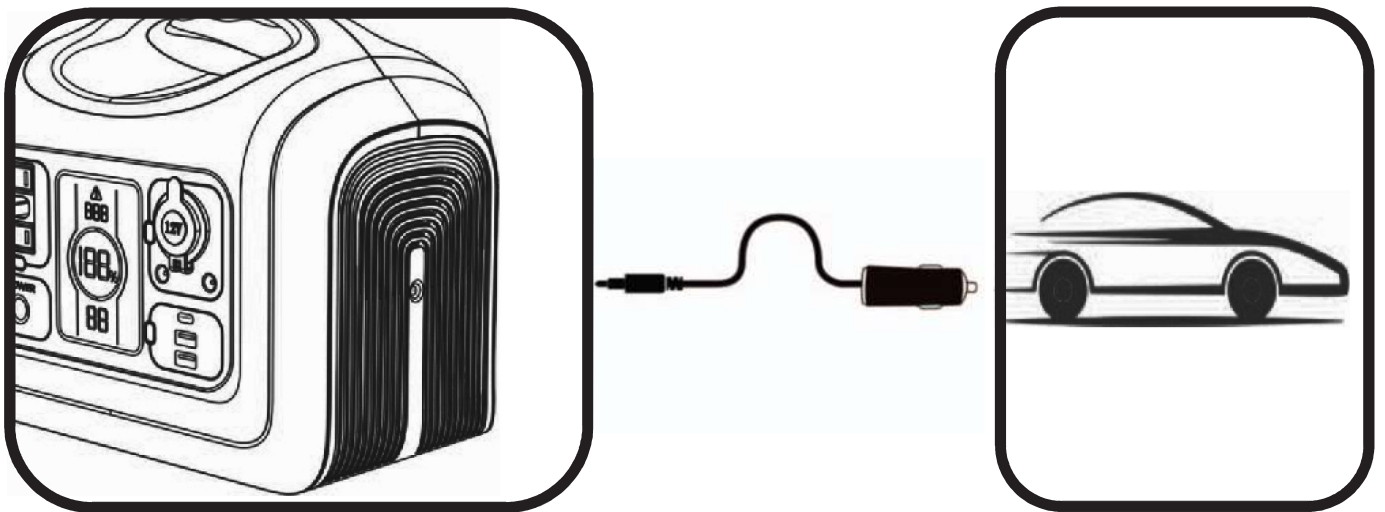


CAUTION

The max. input power of USB-C charging is 60W.

4.1.3 Car Charger

Please connect the input 7909 charging port and the vehicle's 12V cigarette output port with our standard 7909 transfer cables. It will take at least 8 hours to full charge.

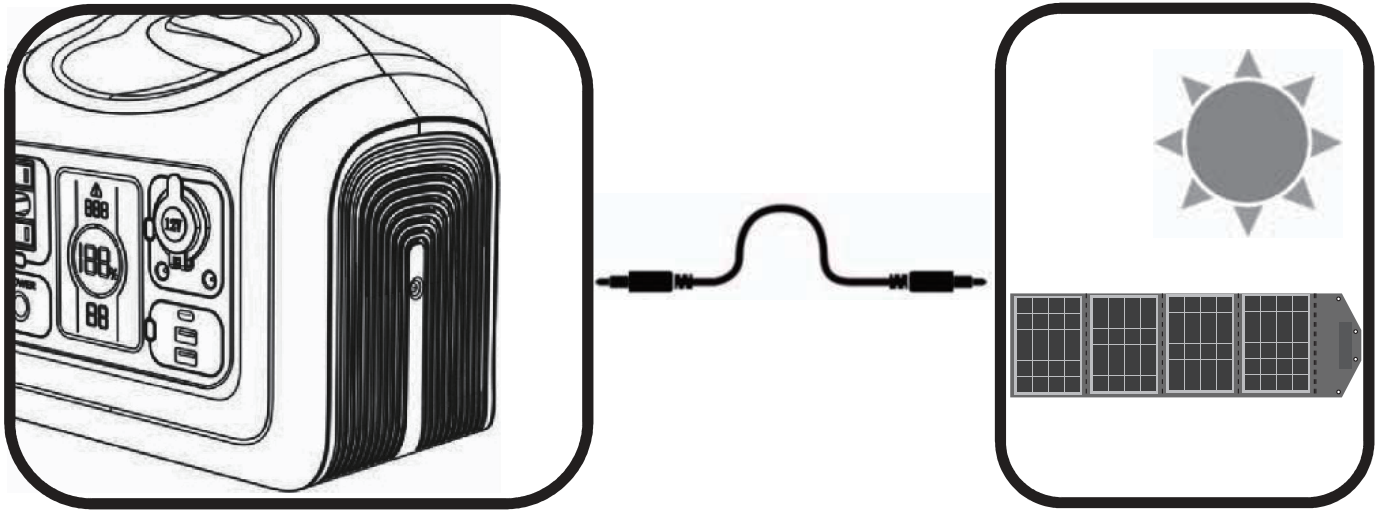


CAUTION

The max input power of car charging is 78W.

4.1.4 Solar Panels

Please connect the output cable of 100W solar panels and the 7909 input charging port. It will take at least 8 hours to full charge, depending on the light of the sun.

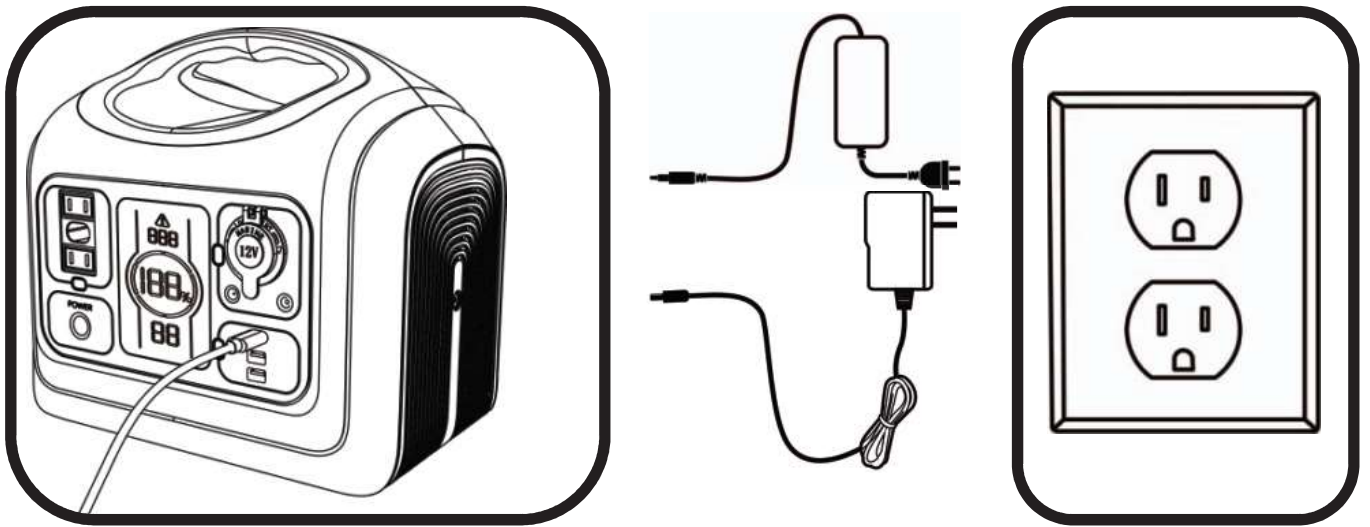


CAUTION

In order to get maximum solar conversion efficiency, please keep the solar panels at a vertical angle to the sun's rays.

4.1.5 Adapter+USB-C

Adapter and USB-C charging can be worked together to shorten the charging time. In this way, 3.5 hours can be charged to 80%, and 5 hours to 100%.



CAUTION

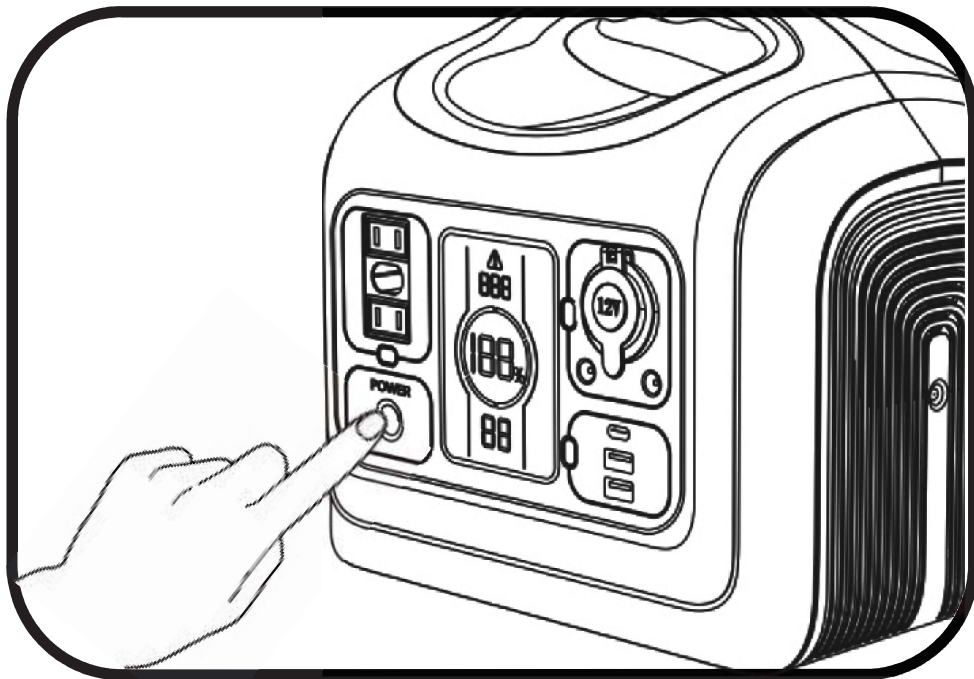
The max. total input power is 160W.

4.2 AC Output Instructions



Main Power Switch

POWER ON: Long press the main power button for 3 seconds, the background light around the button will lit up , and the LCD screen will light up too, the blue battery ring and battery percentage will display.



POWER OFF: Long press the main power button for 3 seconds, the background light and LCD screen will be off at the same time.




4.2.1 AC Output Instructions

When the main power button is turned on, gently press the AC Output button ②, the icon  in the LCD screen will lit up. It means the function of this area can be used normally. Press this button again, the icon  will disappear, and the function of this area will stop working.

4.2.2 DC5521& Car Charger Output Instructions

When the main power button is turned on, gently press the Car Charger and DC5521 Output button ④, the icons  and  in LCD screen will lit up. It means the function of this area can be used normally. Press this button again, the icons will disappear, and the function of this area will stop working.

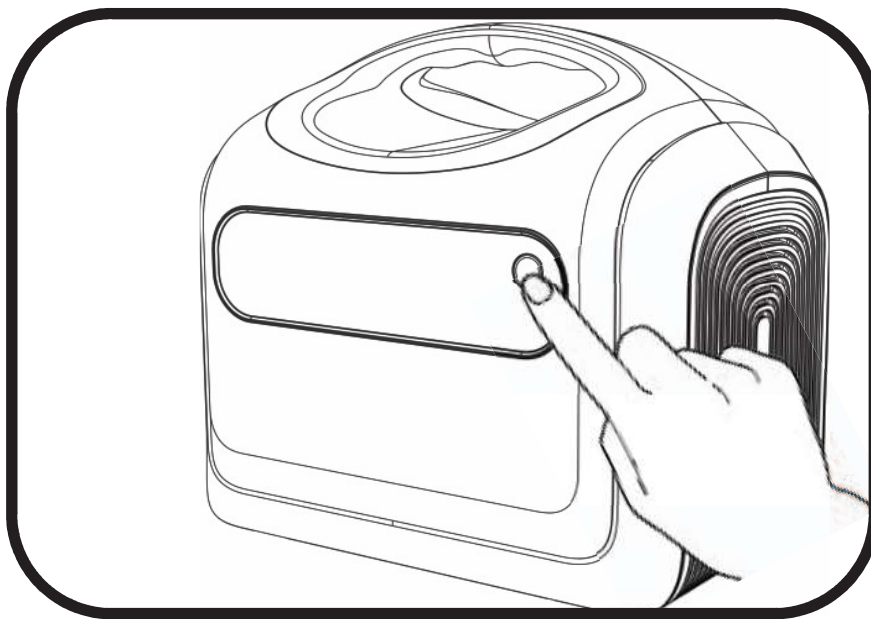
4.2.3 USB-C&USB-A Output Instructions

When the main power button is turned on, gently press USB-C& USB-A Output button ⑨, the icons  in LCD screen will lit up. It means the function of this area can be used normally. Press this button again, the icons will disappear, and the function of this area will stop working.













The USB-C port works independently, and can identify the working mode of input or output by itself.

4.3 LED Light Instructions

In the main power on state. The power on/off button is on the other side. Press once, 50% brightness, press again, 100% brightness, then press again, it will change to SOS flashing mode, and press once more to power off.

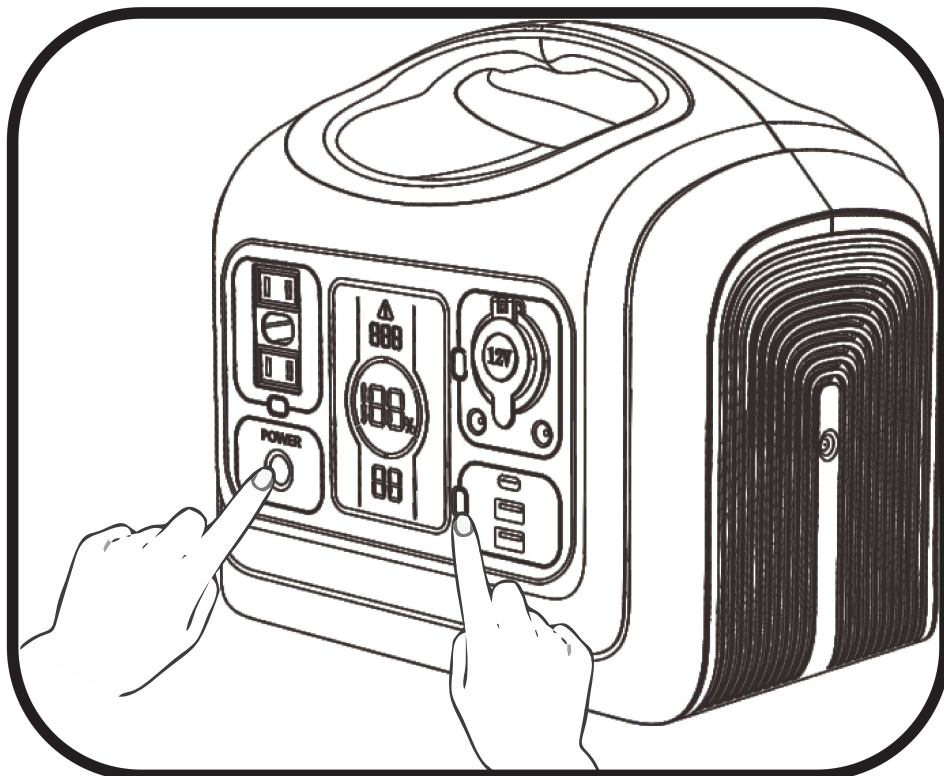


5. Appliances Run Time Instructions

Icons	Appliances	Run time
	3110mAh phone	42 times
	30Wh Tablet PC	17 times
	60Wh Laptop	8 times
	10W Light	50.5 hours
	16Wh Camera	31 times
	60Wh Drone	8 times
	50W Mini Cooler	10 hours
	30W Fanner	17 hours
	30Wh Electric Tool	17 times
	10W WIFI	50.5 hours
	110W TV	4.6 hours
	40W Ventilator	12.6 hours

6. Frequency switching operation

1. In the power-on state, turn off the AC output, and press the main power button & the DC button(USB output) at the same time to enter the switching frequency menu;
2. Press the AC output button to switch the frequency, the setting the frequency will be flashing;
3. Long press the main power button to set the frequency, SUC will be displayed if the setting is successful, and then long press the main power button to exit the setting menu.



7. Storage and Maintenance

- When the device is not in use, please turn off all switches to reduce product power consumption and prolong the product battery lifetime;
- Please keep the surface of the product clean, ensure that the product does not contact gasoline, volatile oil, thinner, kerosene, etc., to avoid corrosion of the product shell;
- Please store the product in a dry, ventilated and dustless environment. Storage temperature range in 0~40°C, avoid direct sunlight;
- Please fully charged the battery before storage, and charge it at least once every 6 months, to avoid dormancy of the battery, which will affect normal use;
- If the product needs to be transported long distance, please Keep the battery power between 40%~60%, otherwise there will be potential safety risks.

8. Main Technical Specification

Output Technical Parameters

AC Output	Rated Voltage	100~120Vac/220~240Vac
	Rated Power	600W
	Peak Power	1000W
	Frequency	50/60Hz
DC 12V & Car lighter Output	Rated Voltage	12V
	Rated Power	10A
USB-A Output	5V/3A; 9V/2A; 12V/1.5A (18W Max)	
USB-C Output	5V/3A; 9V/3A; 12V/3A; 15V/3A; 20V/3A (60W Max)	
LED Light	Press once, 50% brightness, press again, 100% brightness, then press again, it will change to SOS flashing mode, and press once more to power off.	

Input

Input Voltage	12V~30V
AC7909 Input Power	100W Max
USB-C Input Power	60W Max










Battery

Rated Capacity	595.2 Wh
Rated Voltage	19.2 Vac
Battery Type	LiFePO ₄

Common Information

IP Grade	IP21
Working Temperature	0~40°C
Dimensions	10.5 x 7.76 x 9.73 in (27 x 20 x 25 cm)
Net Weight	15 lbs (6.8 kg)

9. Fault Code and Trouble Shooting

Code	Description	Performance	Trouble Shooting
E00	AC Short Circuit Protection	 AC +  flashing, no output	Press the AC Output Power on/off button for recovery.
E01	Over Load Production	 AC +  DC +  flashing, no output	Flashing icons indicates which circuit overload. Press corresponding button for recovery.
E02	Battery Low Voltage Protection	Related function icons flashing , Corresponding terminals no output	Press corresponding button for recovery.
E03	AC&DC Output run simultaneously, system overload	 AC flashing, AC no output	AC&DC Output run at the same time, the total load power is over 600W. Shut down the AC output, or lower down the load of AC output,priority support the DC output.
E04	Inverter fault	 AC +  flashing, no output	Inverter output voltage too high/low; Inverter over temperature; DC main line voltage too high/low; Loaded current abnormal.
E05	BMS fault	 flashing, other function icons Can't lit up, no output	Charge over voltage protection; Discharge under voltage protection; High Temperature Protection; Low Temperature Protection; Short Circuit Protection.