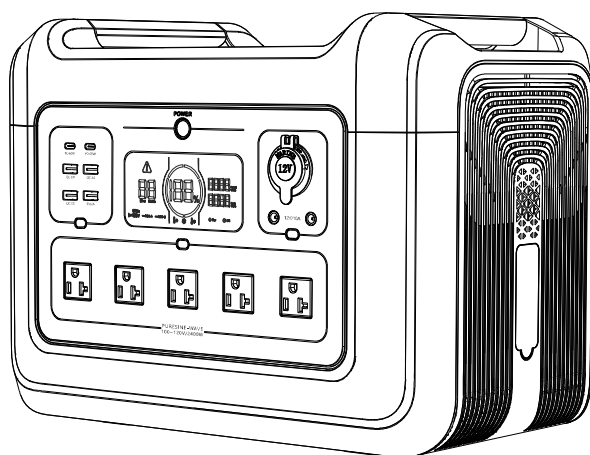


# 2400W PORTABLE POWER STATION



100~120V/220~240V

## User Manual

# Content

<b>1. Disclaimer</b>	1
<b>2. Product List</b>	1-2
<b>3. Function Instructions</b>	2-4
3.1 Function Description	2-3
3.2 LCD Screen Description	4
<b>4. Direction of Use</b>	4-5
<b>4.1 Three Different Recharge ways</b>	5-8
4.1.1. Standard AC Adapter	5-6
4.1.2. Car Charger	6
4.1.3. Solar Panel Charger	7-8
<b>4.2 AC Output Instructions</b>	9
<b>Main Power Switch Instructions</b>	9
4.2.1 AC Output Instructions	10
4.2.2 DC Output Instructions	10-11

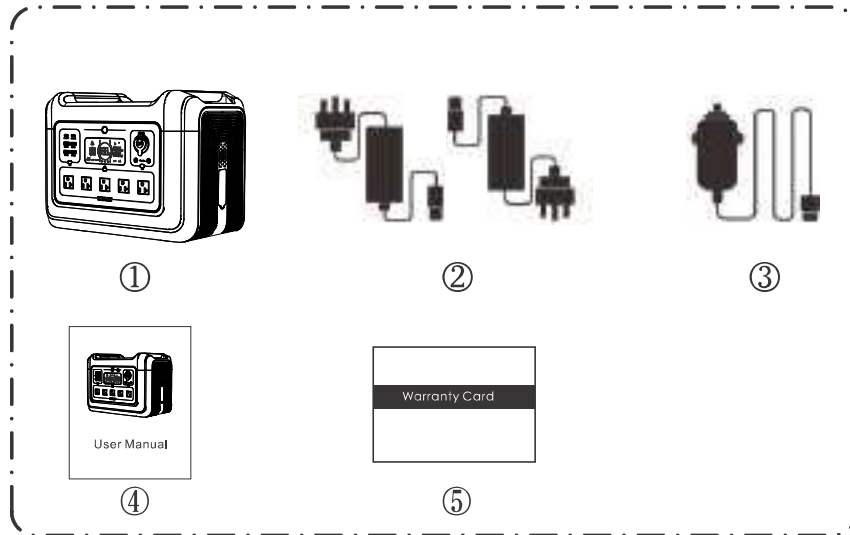
<b>4.3 LED Light Instructions</b>	<b>----- 11</b>
<b>5. Appliances Run Time Instructions</b>	<b>----- 12</b>
<b>6. Frequency switching operation</b>	<b>----- 13</b>
<b>7. Storage &amp; Maintenance</b>	<b>----- 14</b>
<b>8. Main Technical Specification</b>	<b>----- 15-16</b>
<b>9. Fault Code and Trouble Shooting</b>	<b>----- 17</b>

## 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.

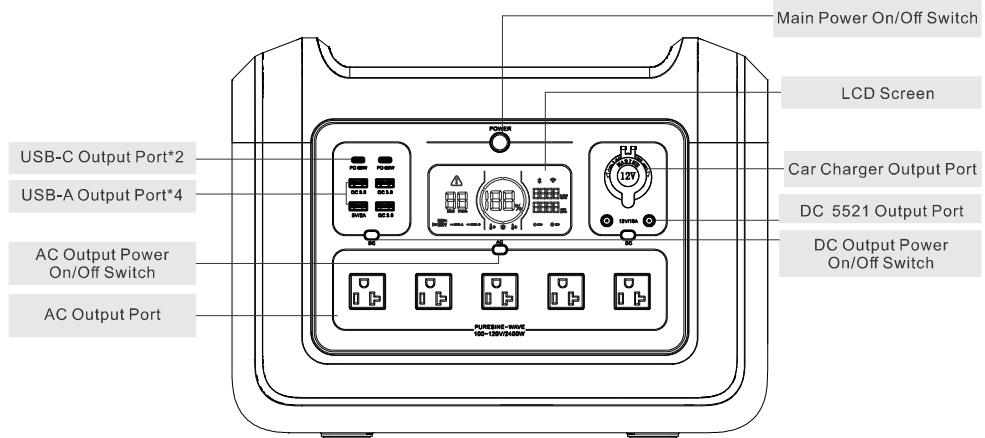
## 2. Products List

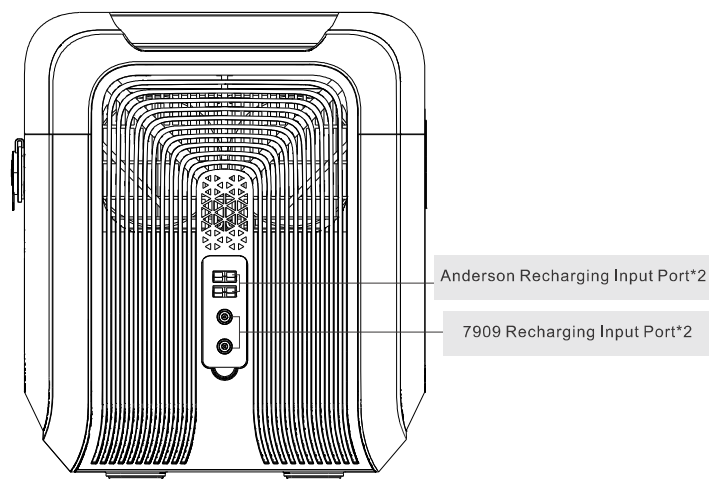
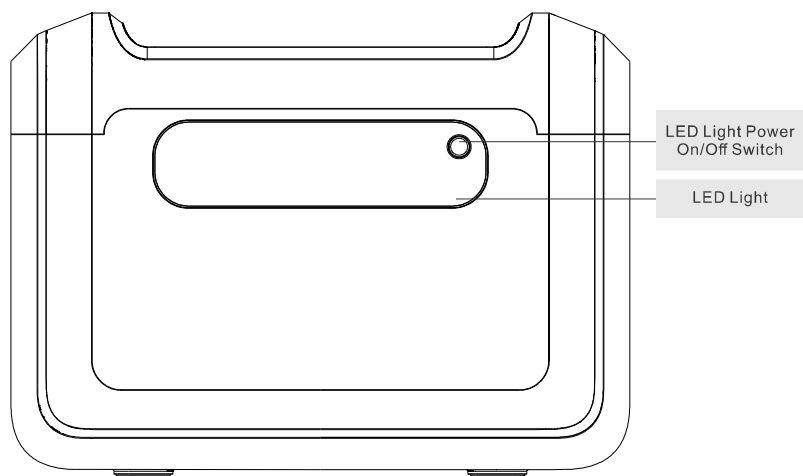
No.	Items	Qty.
1	Portable Power Station	1
2	AC Adapter	2
3	7909 connected wire for Vehicle's 12V Output	1
4	User Manual	1
5	Warranty Card	1



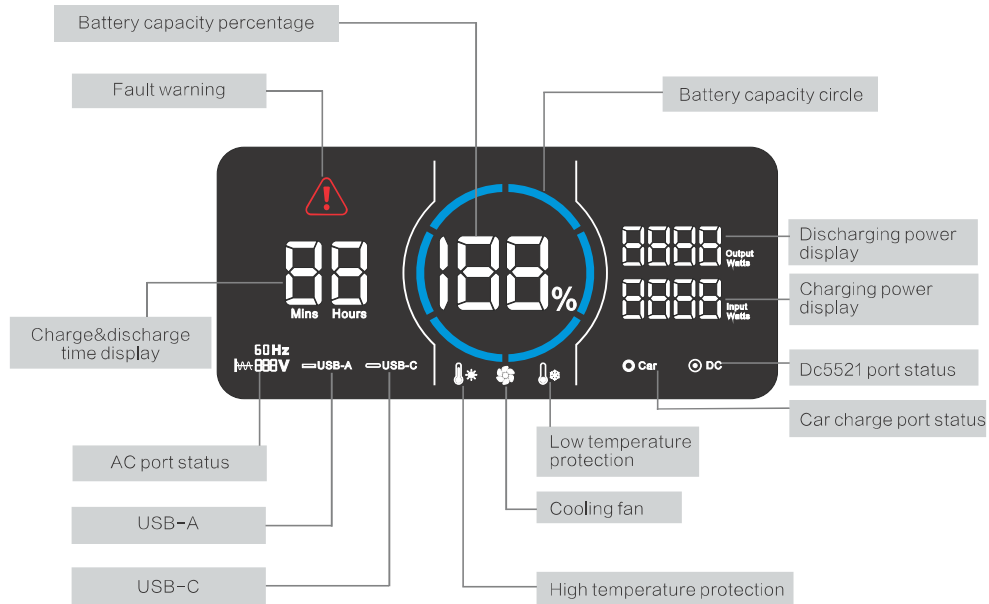
## 3. Function Instructions

### 3.1 Function Description





## 3.2 LCD Screen Description



## 4. Direction of Use

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

flashed in the clockwise direction, and the digital number will show the real-time input charging power. After being fully recharged, the whole blue circle will light up and remain stable, then 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℃.
- 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.

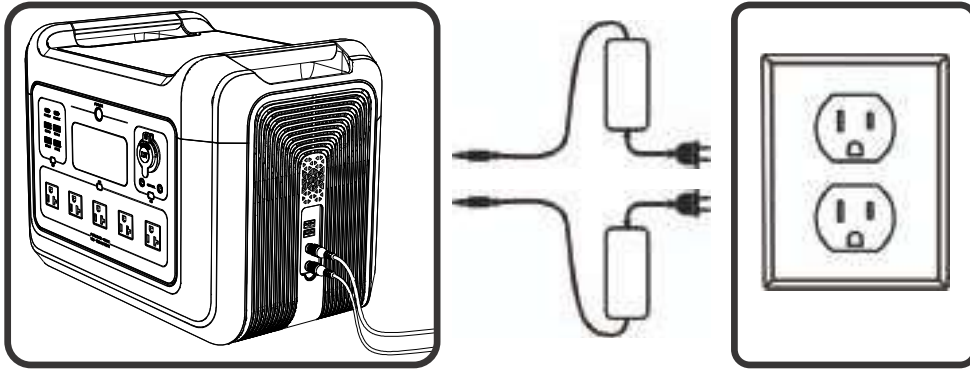
## **4.1 3 Different Recharging Ways**

### **4.1.1 Standard AC Adapter**

Please connect the 7909 input charge port of the product and wall outlet with our standard 2\*200W AC Adapter, it will take about 6



hours be fully charged.



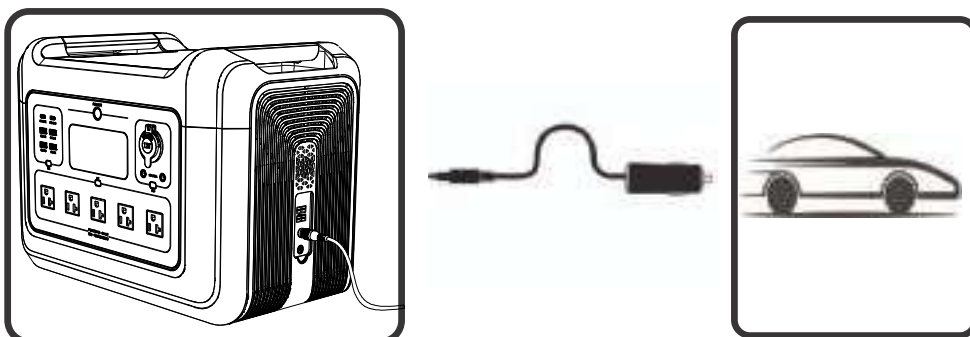
#### CAUTION

Please use our standard solar panels and adapters to charge the device, otherwise the device may not be charged normally. In severe cases, the lifespan will be reduced, and the device may be damaged due to short circuit.

### 4.1.2 Car Charger

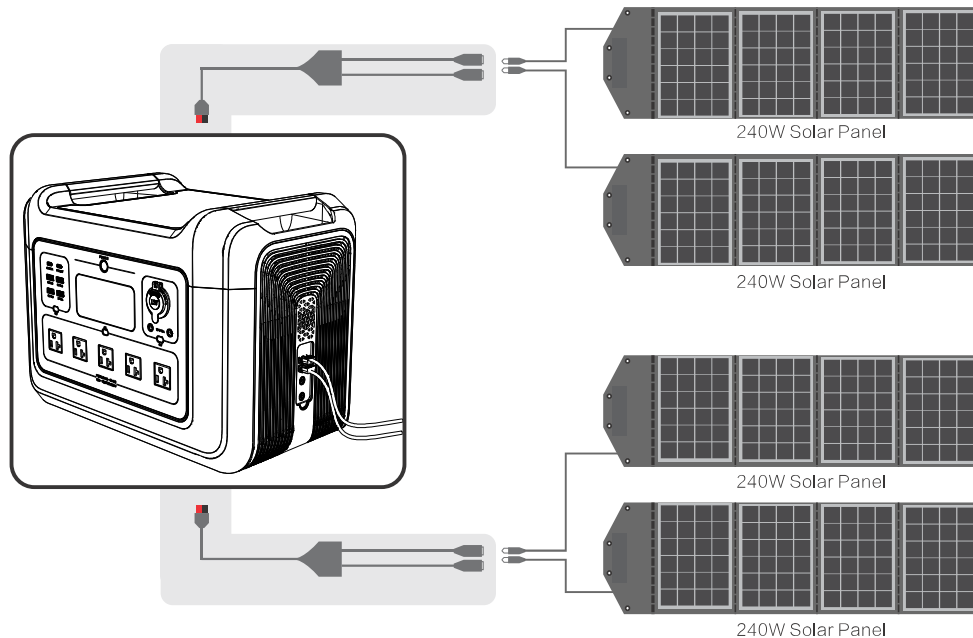
Please connect the input 7909 charging port and the vehicle's 12V cigarette output port with our standard 7909 transfer cables.

It will take at least 23 hours be fully charged.



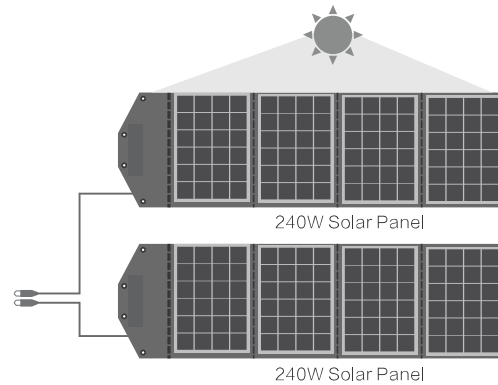
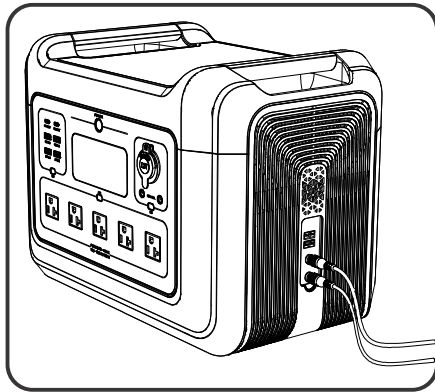
### 4.1.3 Solar Panels

**ANDERSON Input:** Connect 2\*240 Solar Panels with Anderson Y parallel cable, next connect Anderson Y parallel cable with the Anderson input port on the right side of 2400 power station. At the point, the battery indicator bar on the screen will start to scroll and the input power will be displayed, indicating that the power station is charging. The solar power is affected by the intensity of the light. The charging power increases with the increase of light intensity, and the Anderson port supports a maximum power input of 500W.



**NOTE:** The power station can not be charged until when all the Anderson port is connected, supports up to 45V input voltage. The 7909 DC port and the Anderson port can not be used at the same time.

**7909 Input:** Connect 2\*240W Solar Panels with the 7909 DC input ports of 2400 power station. At the point, the battery indicator bar on the screen will start to scroll and the input power will be displayed, indicating that the power station is charging. The charging power increases with the increase of light intensity, and each 7909 DC port supports a maximum power input of 300W.



### CAUTION

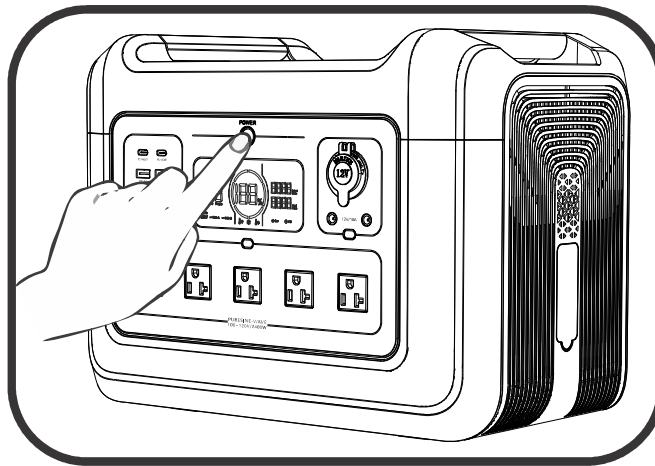
Please use our standard solar panels and adapters to charge the device, otherwise the device may not charge normally. In severe cases, the lifespan will be reduced, and the device may be damaged due to a short circuit.

## 4.2 AC Output Instructions



### Main Power Switch

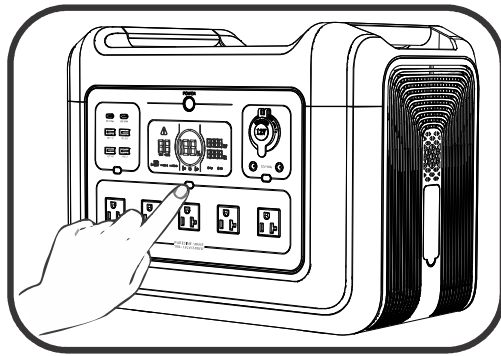
**POWER ON:** Long press the main power button for 3 seconds, the background light around the button will lit up , and the LCD screen will light up too, the blue battery circle and battery percentage will display.

**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

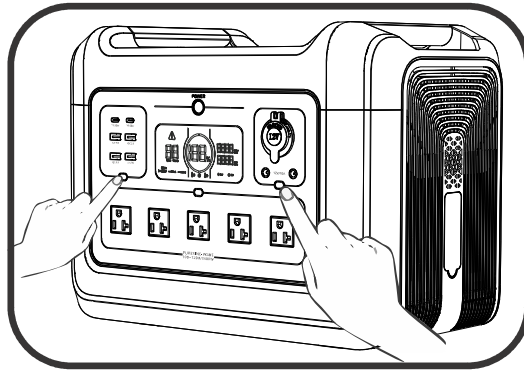
When the main power button is turned on, gently press the AC Output button, the icon  in the LCD screen will lit up. It means the function of this area can be used normally. Press this button again, the icon  will disappear, and the function of this area will be turned off.



### 4.2.2 DC Output Instructions

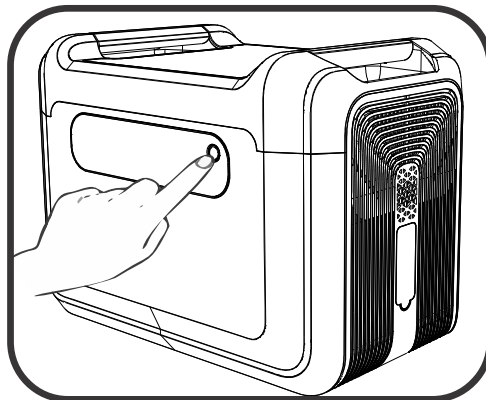
When the main power button is on, press the DC button on the left side of the function panell, USB-C and USB-A function can be used normally, and the corresponding icons  ,  on the LCD screen will lit up. Press the DC button on the right side of the function panell, USB-C and USB-A function can be used normally, and the corresponding icons  ,  on the LCD screen will lit up. Press the power button again, the corresponding icons  ,  ,  and  on the LCD

screen will go out, and the functions in the area be turned off.



### **4.3 LED Light Instructions**

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

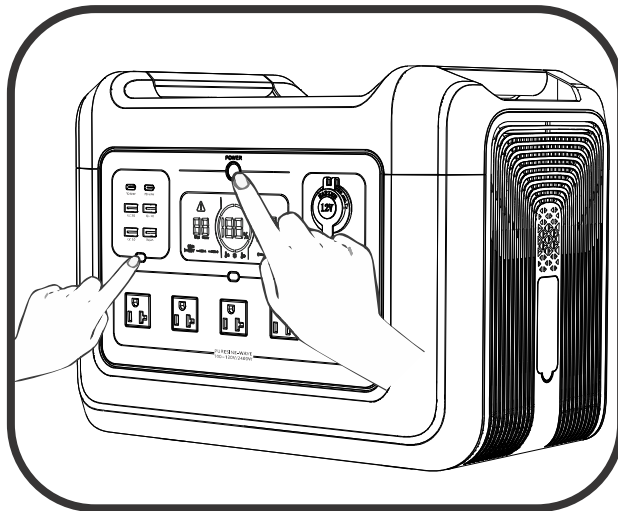


## 5. Appliances Run Time Instructions

Icons	Appliances	Run time
	30Wh Tablet PC	65.5 Times
	10W Light	196 Hours
	1200W Electric Frying Pan	1.6 Hours
	1300W Microwave	1.5 Hours
	500W Washer	3.9 Hours
	60Wh Drone	33 Times
	120W Refrigerator	16.3 Hours
	1600W Hair Dryer	1.2 Hours
	1000W Coffee Maker	2 Hours
	110W 50" TV	18 Hours
	40W CPAP	49 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 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, in a 0-40°C temperature range and avoid direct sunlight
- Please fully charged the battery before storage, and charge it at least once every 3~6 months, to avoid dormancy of the battery, which will affect normal use;
- If the product needs to be long-distance transported, 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
	Frequency	60Hz	50Hz
	Rated Power	2400W	
	Peak Power	5000W	
DC 12V & Car lighter Output	Rated Voltage	12V	
	Rated Power	10A	
USB-A Output	5V/3A; 9V/2A; 12V/1.5A (18W Max) ; 5V/2A		
USB-C Output	5V/3A; 9V/3A; 12V/3A; 15V/3A; 20V/3A		
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-45V		
7909 Input Power	2*24V/200W ( 400W Max )		
Anderson Input Power	2*45V/500W(Single maximum input 500W)		

Battery		
Rated Capacity	2232Wh	697500mAh
Rated Voltage	46.5Ah; 48V	
Battery Type	LiFePO <sub>4</sub>	
Common Information		
IP Grade	IP21	
Working Temperature	0~40°C	
Dimensions	16.5*10.6*12.3in(420*270*313mm)	
Net Weight	45.6lb(20.7kg)	

## 9. Fault Code and Trouble Shooting

Code	Description	Performance	Trouble Shooting
E000	AC Short Circuit Protection	 +  flashing, no output	Press the AC Output Power on/off button for recovery.
E001	Over Load Production	 +  +  flashing, no output	Flashing icons indicates which circuit overload. Press corresponding button for recovery.
E002	Battery Low Voltage Protection	Related function icons flashing , Corresponding terminals no output	Press corresponding button for recovery.
E003	AC&DC Output run simultaneously, system overload	 flashing, AC no output	AC&DC Output run at the same time, the total load power is over 2400W. Shut down the AC output, or lower down the load of AC output, priority support the DC output.
E004	Inverter fault	 +  flashing, no output	Inverter output voltage too high/low; Inverter over temperature; DC main line voltage too high/low; Loaded current abnormal.
E005	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.