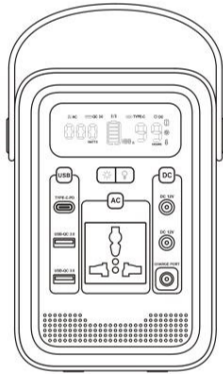
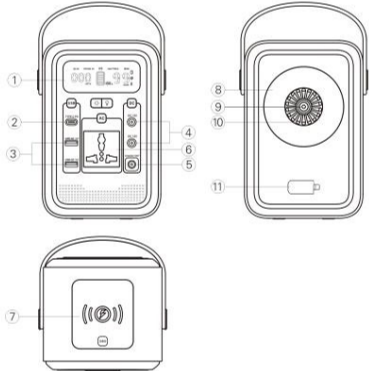


PRODUCT MANUAL



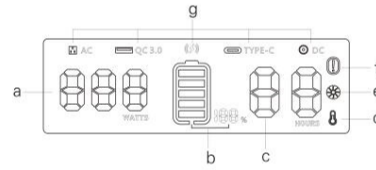
Structure description



1. LCD screen
2. Type-C PD 60W (input & output)
3. USB-QC3.0 (quick charge output port)
4. DC12V output port
5. Three-in-one recharging interface (adapter/solar panel/car cigarette lighter port)
6. AC inverter output port (200W pure sine wave)
7. Wireless charge (222WH model only)
8. Ring light (lighting & traffic warning light)
9. Flash light (flash light & SOS help)
10. Fan cooling (air outlet)
11. Car jump starter port (17BWH model only)

1

Interface and function description



- 1. LCD display**
- A. Total output power: display the total output power of all ports in watts;
 B. Power indicator: shows the percentage of remaining power and the number of remaining batteries.
 When the power is full, it will close LCD screen automatically.
 If 20% power, the buzzer will "beep" one time.
 If 10% power, the buzzer will "beep" two times and AC output closed.
 If 5% power, it will remind you to recharge by "beep" three times.
 C. Remaining time: calculate the remaining time according to current total output power and existing power. When showing number in non-flashing state, it means remaining working time by hours, if flashing state, it means remaining working time by minutes.
 D. Over temperature protection:
 (1) When battery temperature exceed 60 Celsius in charging state, it start over temperature protection, if temperature less than 50 Celsius, protection released.
 (2) When battery temperature exceed 50 Celsius in recharging state, it start over temperature protection, if temperature less than 40 Celsius, protection released.
 (3) When key components working temperature exceed setting rated value in AC/DC mode, it start over temperature protection.
 E. Fan cooling indicator light: the cooling fan will turn on automatically when temperature reaches the control value.
 F. Overload & short circuit protection: It will stop output warning with "beep" ringing when overloaded or short circuited.
 G. Port indicator (including the following ports): AC indicator, USB-QC3.0, wireless charge, TYPE-C and DC-12V ports. The related indicator light will work when the port used.

2

Interface and function description

- 2. TYPE-C 60W input & output port**
- (1) It can support bidirectional power transmission: Input(recharging) and output(with load). Standard power is 60W, Max 65W;
 - (2) When the TYPE-C port connect to devices, the indicator will light up automatically. When pull out the devices, it turn off;
 - (3) Identify the device under PD protocol automatically, compat 5V/9V/12V /15V/20V 3A output;
 - (4) This port has short circuit, over load, over charge, over recharge protection functions.
- 3. USB-QC3.0 quick charge port**
- Two independent quick charge ports, support quick charge devices with QC3.0 protocol, USB compatible as well. The Max output is 18W 5V/3A, 9V/2A, 12V/1.5A) providing short circuit, over load, over charge, over recharge protection.
- 4. DC 12V output port**
- The port connect with DC 12V devices or auto electrical parts freely, the two ports support 120W/10A Max in total (the output current of each independent port is 10A Max among 2 ports). These 2 port provide short circuit, over load, over charge, over recharge protection functions.
- 5. Recharging port**
- Support three recharge way: 1. adapter; 2. solar panel; 3. car cigarette lighter. It provides short circuit, over recharge, adaptive recharging protection.
- 6. AC inverting output port**
- Pure sine wave output.
 220V(H: 200W(Standard), 230W(Max.);
 150WH / 178WH; 150W (Standard), 170W(Max.).
 With overload, short circuit, over temperature, over discharge and other protection functions, it can support all AC electrical equipment within power range.

3

Interface and function description

- 7. Wireless charging(222WH model only)**
- Supports mobile phones with wireless charging function. Max output power is 10W. Identify devices automatically.
- 8. Ring light (lighting & traffic warning light)**
- Offering warm white, cool white, neutral white three color as ring light. When a car gets into danger on road, the warning light could indicate other vehicles avoiding.
- 9. Flash light (flash light & SOS help)**
- Visible light range from 6 to 8 meters, this flash light could switch to SOS mode when people are in danger.
- 10. Fan cooling (air outlet)**
- This port prevents inner parts from overheat. When the inner parts temperature is over setting value, the fan will work automatically to dissipate. When the temperature down to reasonable range, the fan will stop working.
- 11. Car jump starter port (178WH model only)**
- When the car battery malfunction, it can work with the special vehicle smart jumper clamps to start. It is not recommended to be used for starting gasoline vehicles exceeding 3.0L, and the starting capacity depends on the specific vehicle model within 3.0L displacement.

4

Technical parameters

General	
Weight	2.5KG (150WH) 3KG (178WH/222WH)
Specification	120x125x180mm
Working temperature	Operating temperature in charging state: 0-40°C Operating temperature in non-charging state: -10-50°C
Storage temperature	0-35°C
Certification	CE PSE FCC RoHS UN38.3
Input	
DC input port (adapter/solar/cigarette lighter)	DC 5521 port Charging voltage:DC11-30V,constant 40W
Type-C input port	Type-C port (5V/9V/12V/15V/20V)
Output	
Type-C output port	Type-C port (5V/9V/12V/15V/20V/3A)
USB-QC3.0 quick charging output (x2)	USB port (5V/3A,9V/2A,12V/1.5A)
DC 12V output (x2)	DC 5521 port(12V/10A)
AC DC inverter AC output	AC universal socket/AC socket (US)
Wireless charge output	Fast charge 10W(222WH)
Car jump starter port	EC5(178WH)
Internal	
Battery type	18650 batteries
Battery capacity	150WH/178WH/222WH
Warranty	1 year

6

Recharging method

Please charge the battery before using or storing. The indicator will light up and battery symbol running. The LCD screen will display the current charging percent and power at the same time indicator light lighting up. When the LCD screen displays 100%, it means the power is full. It will take about 7.5 hours to charge fully. The current power can be viewed through LCD screen.



Standard recharger
About 7 hours (MAX)



TYPE-C PD 60W recharger
About 4.5 hours by standard charger (MAX)



Vehicle's cigarette lighter recharge
About 8-10 hours (11-30V)



60W Solar panel
About 8-10 hours
(The charging time is determined by the sunlight intensity)
Support MPPT charging of solar panel.(11-30V)

The data is only for reference. charging time will be different due to the environment, methods and other factors.

7

Malfunction elimination

Malfunction	Expel the breakdown	Solutions
Cannot be recharged	1.Charger, equipment and electricity do not connect properly (at this time, the battery indicator is not running).	Check whether the charger, equipment and electricity connected well.
	2.Connected properly, but the battery indicator does not run.	Charger is broken, please contact after-sale service.
	3.Connected properly, still unable to recharge.	Battery temperature is too high (caused by high storage temperature or the battery just discharged, not cooled yet).
No output	1.The connecting line between equipment and devices unproperly.	Make sure the equipment and devices connected properly.
	2.The output port switch do not open (type-C port not need open, it can be identified automatically).	Turn on the output port switch, and the indicator light will be on.
	3.Low power (when the power is less than 10%, the AC output will be turned off automatically, and the DC can work normally. If the AC needed in emergency, it can be forced to start by pressing the AC key long time for 5 seconds).	Recharge the equipment in time.
	4.Still no output after checking 1.2.3 steps.	Damaged or other malfunction, please contact the after-sales department.
Interrupt with device	1.The device rated or instant power exceed the rated power of equipment, it will interrupt.	Choose higher power products.
	2.The output will stop automatically when the load power of AC port is too low.	For non-product problems, the output can be forced start by pressing the key for a long time 5S. It needs to be closed manually after use.
	3.It will turn off the output due to operating temperature protection by battery or key components.	It will start work when the equipment cool down.
	4.Overload or short circuit.	The output recovers after malfunction solved.
	5.The load power is too low or in standby state. If standby power states, the equipment cannot recognize device, so shut down automatically.	Wake up load or forced power on (press the AC key) to start.
	6.The output still shut down after checking 1.2.3.4.5 steps.	Damaged or other malfunction, please contact the after-sales department.

8

Warning & Caution

- Please follow basic precautions including:**
- A. Please read all instructions before using product.
 - B. Please supervision your children when use product.
 - C. Do not use accessories made by non-professional manufacturer avoiding electronic shock risk.
 - D. Please take off the power plug while no using.
 - E. Do not disassemble, repair or modify the products to avoid fire, explode or electronic-shock risk.
 - F. Do not use damaged wires, plugs or cable to avoid electronic-shock risk.
 - G. Please charge and discharge the product in a well-ventilated place, do not restrict the ventilation of the product in any way.
 - H. Please place the product in a ventilated and dry place to avoid electric shock by getting water.
 - I. Do not place the product close to or in a fire or expose it to heat. It may lead to fire/explode accident.
 - J. Do not use or place the product under high temperature (in hot sunlight or in hot car), otherwise it may cause battery overheat, fire, function failure, shorten lifespan or other risks.
 - K. To preserve the battery low power, please use and recharge at least once every 3 months.
 - L. Take off the plus in time when product is fully charged to avoid possible accidents.

Warranty

The warranty period is 12 months. The warranty period starts from the purchase date. To estimate the start time, your purchase certificate or other reasonable documents shall be provided.

Exclusions

1. The appearance of the product is damaged after use.
2. Disassembled and repaired on your own.
3. Performance failure caused by human factors.
4. Damage caused by natural disasters, lightning, accidents and other irresistible factors.

FOC Statement

This device complies with part 15 and part 18 of the FCC Rules. Operation is Subject To The following two conditions:
 (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not explicitly approved by the party responsible for compliance could void the user's authority to operate this equipment.
 Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 and part 18 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
 • Reorient or relocate the receiving antenna.
 • Increase the separation between the equipment and receiver.
 • Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 • Consult the dealer or an experienced radio/TV technician for help.
 The equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. During the operation of device a distance of 15 cm surrounding the device and 20 cm above the top surface of the device must be respected.
 This device complies with Part 18 of the FCC Rules. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
 • Increase the separation between the equipment and any other radio device.
 • Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.