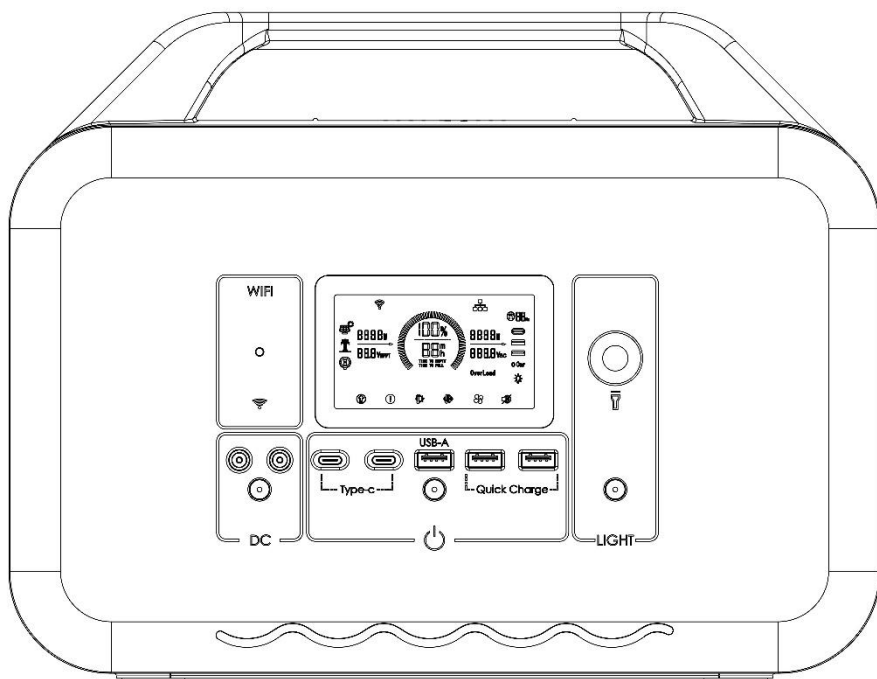




Power Station

600W/1000W

User Manual

Version

V1.1

Catalogue

About This Document.....	1
Preface.....	1
Symbol Description.....	1
Revise History.....	1
01 Safety Instructions.....	2
02 Product Introduction.....	3
2.1 Package Contents.....	3
2.2 Product Details.....	3
2.3 Describes the user interface.....	6
2.4 Socket Types.....	8
03 Product Safety Guidelines.....	8
3.1 Storage & Transportation.....	8
3.2 Product Charging.....	9
3.3 Product Disposal.....	9
04 General Product Usage.....	9
4.1 Power On & Power Off.....	9
4.2 Use 12V output and wireless charging function.....	10
4.3 Reading Lamp.....	10
4.4 AC Output.....	11
4.5 Mute charging.....	11
4.6 Uninterruptible Power Supply.....	11
4.7 Smart Drive Mode.....	12
4.8 AC, Car, Solar Charging.....	12
05 Troubleshooting & Maintenance.....	14
5.1 Troubleshooting.....	14
5.2 Maintenance.....	17
06 Specifications.....	18

About This Document

Preface

- This portable power station is designed and tested in strict accordance with relevant safety regulations, but as an electronic device, users need to follow the safety instructions in this manual. Please read the complete user manual before operating, and familiarize yourself with the functions and features of the product before using. Improper operation will cause serious injury and property loss to users! The Company disclaims any direct or indirect liability. By using this Product, you shall be deemed to have understood, acknowledged and accepted all terms and contents of this Document. Users undertake to be responsible for their own actions and all consequences arising therefrom.
- Use officially provided or suggested parts, and strictly follow the guidelines in this manual when using the product, otherwise you won't get official after-sales service. This manual includes safety, operation and maintenance instructions. Be sure to read and follow all instructions and warnings in the user manual carefully before using the product.
- The specifications in this document are subject to change without notice. All efforts have been made to keep this document complete, accurate and up to date. However, the equipment manufacturer may need to make some improvements in some cases without prior notice. The manufacturer of the equipment shall not be liable for any damages arising out of this document, including but not limited to omissions, typographical errors, arithmetic errors, or errors listed in this document.

Symbol Description

The definitions of symbols that may be found in this document are as follows.

Symbol	Name	Description
	Notice	Failure to follow the instructions may result in property damage and minor injuries.
	Caution	Failure to follow the instructions may lead to property loss and serious injury.
	Warning	Failure to follow the instructions may result in property damage, major accidents and serious injuries.
	Wait	Wait for five minutes after the power failure to ensure that the capacitor discharges to a safe voltage.
	Recycle	It shall not be disposed of as ordinary garbage, but shall be recycled through special channels.

Revision History

The product manual is constantly updated and the latest product manual contains all previous updated records

Version	Date	Record
V1.0	2022/9/30	First edition release

01 Safety Instructions



WARNING

- Without official authorization, do not disassemble the machine or pierce the battery with sharp objects in any way, otherwise the battery will spontaneously burn or cause harm to human, the company will not be responsible.
- Damage to battery may cause the electrolyte to leak. If the electrolyte leaks, do not touch the leaked electrolyte or volatile gas, and immediately contact the after-sales service center for help.
- If the product accidentally falls into water during use, after removing it from the water, place it in a safe, open area until the product is completely dry. After drying, it shall not be used again. It shall be scrapped according to the method of abandonment in this manual.
- If a fire breaks out, use fire extinguishing equipment in the recommended order: water or water mist, sand, fire blanket, dry powder, and carbon dioxide extinguisher.



CAUTION

- This product contains batteries. Do not place the product near a heat source, such as a fire source or a heating furnace, otherwise it will trigger spontaneous combustion of the battery and possibly even an explosion.
- The product should not touch any liquid, do not submerge the product in water or get it wet. Do not use this product in rain or wet environment.
- Do not use in an environment with strong static electricity or magnetic fields, as some of the protective functions of the machine may fail.
- Do not use unofficially provided parts or accessories. If replacement is required, please go to the official sales channel for relevant purchase information.
- Do not bump, fall, or step on the this product. Turn off the power immediately if this product is struck by serious external force.
- In case of serious damage to the product, keep it away from combustible materials and people, ensure the surrounding safety, and scrap it in accordance with local laws and regulations.



NOTICE

- Too high a temperature may cause a battery fire. If the temperature is too low, the product

performance will be seriously degraded and may not meet the requirements of normal use. When using the product, strictly follow the ambient temperature specified in this user manual.

- If there is dirt in the interface of the product, use a dry cloth to clean it, otherwise it will cause poor contact, resulting in energy loss or failure to charge.
- Do not place anything heavy on top of the product.
- Avoid using products in dusty areas, which can clog fans.
- Keep this product out of reach of children and pets to prevent accidents.

02 Product Introduction

2.1 Package Contents

After receiving the product, please check whether the products are complete in the packing box. If there is any abnormality, please contact the after-sales service center as soon as possible.



Power Station



AC charging line



Solar charging wire

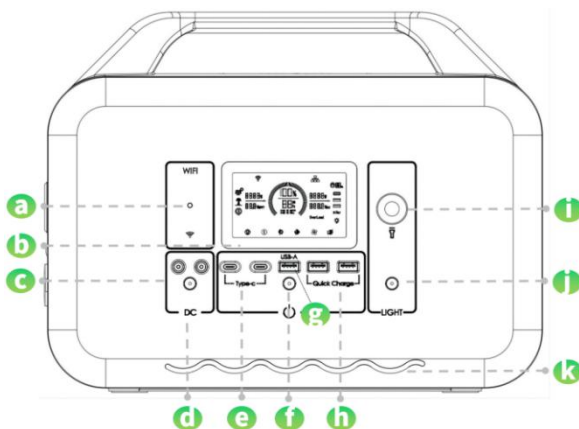


Car charge input line

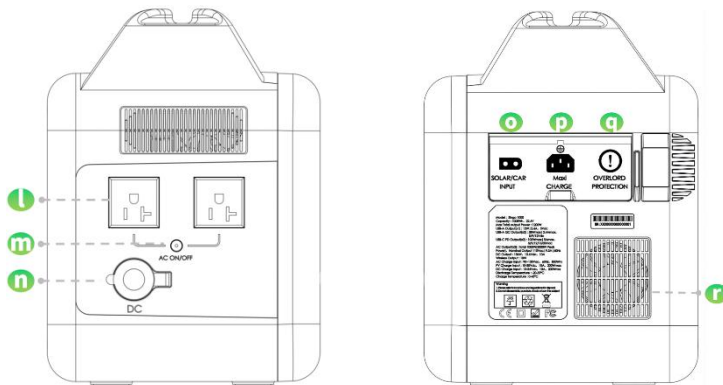


User manual & Warranty card

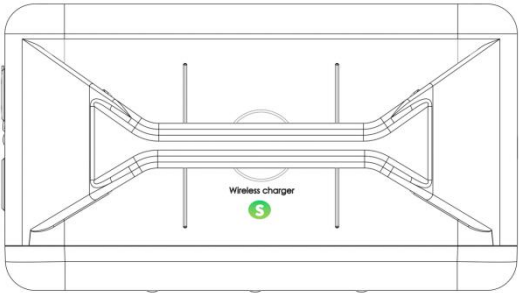
2.2 Product Details



S/N	Name	Description
a	IOT Reset button	If the WIFI hotspot connection fails, you can restore the WIFI hotspot function to its default factory Settings. Usage: Press the hole with a paper clip or other sharp object for 3 seconds before releasing.
b	LCD screen	Prompt of product working status.
c	DC Output	Charge devices through the DC 5525 port
d	DC Output Key	Press DC ON/OFF to turn ON or OFF the DC power supply. This button controls two DC 5525 outlets, cigarette lighter outlet and wireless charging.
e	Type-C fast charge	Charge device through Type-C port. When the Type-C is in use, the display's Type-C output indicator icon would light up automatically.
f	Main power switch	Long press ON/OFF for 3 to 5 seconds to power ON, and long press ON/OFF for 3 to 5 seconds to power off.
g	USB-A	Charge device through USB-A port. When the USB-A is in use, the display's USB-A output indicator icon would light up automatically.
h	Quick Charge	The Quick Charge port charges the device. When the Quick Charge is in use, the display's Quick Charge output indicator icon would light up automatically.
i	Reading lamp	Provide reading lamp lighting.
j	Light switch	The light switch is in three levels, strong light, weak light, and SOS rescue signal flash.
k	Atmosphere lamp	Provide different combination colors of lights.

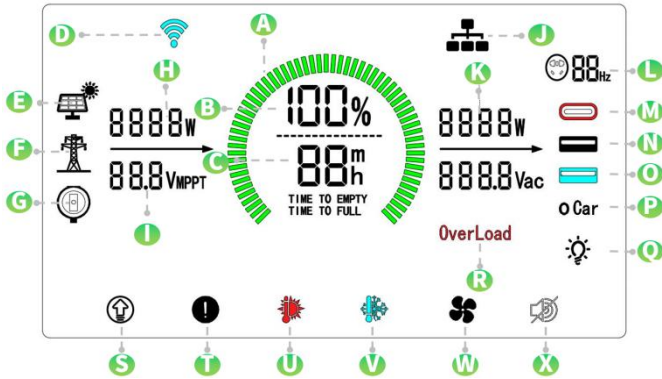


S/N	Name	Description
l	AC socket	Provide alternating current output.
m	AC power key	Short press AC ON/OFF to turn on/off AC power while the total power is on.
n	Cigarette lighter outlet	It can be used for general vehicle electrical appliances, and it can also charge the 12V lead-acid battery of cars (please operate and use under the guidance of professionals).
o	Solar energy/ car charging port	Maximum support for 200W solar charging; The car charger can support the input of 12V/24V maximum 10A on-board power supply (be sure to start the car when using, so as not to cause the car battery to lose power and cannot start).
p	AC charging port	The input port is connected with a universal 3-pin AC, and the other end is universal AC plug that'll be plugged into AC wall outlet.
q	Overload protection switch	When the input current is continuously greater than 15A during charging, the AC charging port will be protected (the protector button pops up). After confirming that there is no fault in the machine, press the protection switch to reset and resume charging.
r	Cooling fan	Cooling fans can prevent the internal temperature of this product from getting too high.



S/N	Name	Description
s	Wireless charging	It supports wireless charging of up to 10W. The actual charging power depends on the temperature and feature of the mobile phone. Be sure that DC switch is on before using wireless charge.

2.3 The user interface



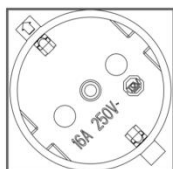
S/N	Icons	Description
a		Battery power status bar. The status bar will vary with the charging and discharging of the battery.
b		Displays the percentage of remaining power.
c		Remaining rechargeable/discharge time. Determine the remaining

		charge/discharge time, accurate to minutes, based on the current power consumption of the product.
d		Displays WiFi connection status. Icons will be displayed when connected to WIFI, but will not be displayed when not connected.
e		Indicates being recharged by solar panels.
f		Indicates being recharged by AC input.
g		Indicates being recharged by car or DC adaptor.
h		Displays the current input power. Displays the current input power of the product in watts.
i		Display the current MPPT value of the product in terms of voltage. This icon will only appear when the battery is charged by solar panels.
j		When the internal communication fails, the icon blinks.
k		Displays the current output power and AC voltage.
l		Indicates the corresponding output frequency of AC output.
m		Indicates Type-C output is working. Corresponding color green.
n		Indicates USB-A output is working. Corresponding color is white.
o		Indicates QC fast charge port is working. Corresponding color blue.
p		Indicates cigarette lighter and DC output are working.
q		This icon displays when reading lamp is on.
r	OverLoad	Output overload indication icon.
s		Icon indicates that the smart-drive function is on. The device can power the AC loads that requires higher power than the rated output power.
t		Displayed if the BMS is faulty.
u		A high temperature warning icon appears when the temperature of the machine is too high. Please pay attention to the cooling of the machine.

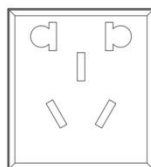
v		A low temperature warning icon will appear on the screen to warn that the temperature of the machine is too low. Please warm up the machine properly before using it.
w		When the cooling fan is turned on, the icon rotates dynamically. If the fan is faulty, the icon blinks.
x		Silent charging mode: Hold down AC ON/OFF to manually enable it, and hold down AC ON/OFF to disable silent charging.

2.4 Socket Types

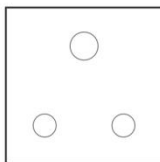
The type of socket in each region is different, and the specific kind received shall prevail.



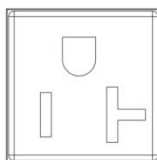
Universal European
Standard (Type F)



Mainland China
(Type A & I)



South Africa
Standard (Type M)



USA Standard (Type
B)

03 Product Safety Guidelines

3.1 Storage & Transportation

- ◆💡 Please keep this product out of reach of children. If a child accidentally swallows parts, please seek medical advice immediately.
- ◆💡 Please charge this product before storing it. Long-term storage may damage the batteries. If the battery capacity is seriously depleted or operates in idle for too long, it will enter deep sleep mode. You need to charge the battery and wake up before the product function can be restored from the hibernation state.
- ◆🔥 Store the product in the dry environment. DO NOT place the product in a place where it may

- come into contact with water.
- ◆ ❶ When storing this product, seal it with an outer packaging bag to avoid dust entering and blocking the fan port.
- ◆ ❷ It is forbidden to store or transport machines with metal necklaces, glasses, watches, hairpins, or other metal objects.
- ◆ ❸ If the machine is idle for a long time, its performance will be affected.
- ◆ ❹ Please fix it properly during transportation to avoid vibration and impact.
- ◆ ⚠ DO NOT place products near heat sources, such as cars with direct sunlight, fire sources, or heating furnaces.
- ◆ ⚠ DO NOT transport products with battery power exceeding 30%.
- ◆ ⚠ Please DO NOT take this product on board.
- ◆ ⚠ NEVER store the machine at room temperature above 45°C or below -20°C.

3.2 Product Charging

- ◆ ⚠ Portable energy storage sources must be charged using officially designated charging cables. The Company will not be responsible for any damage and consequences caused by charging without using the official charging cable.
- ◆ ⚡ When recharging, please place this product on the horizontal surface to ensure that there are no inflammable and explosive materials in close proximity. Please arrange someone to take care of the product when charging, so as to prevent accidents.
- ◆ ❶ After the machine is continuously discharged at full load, if the battery of the product is in a high temperature state, it is recommended to wait for the temperature of the product to drop to room temperature before charging, otherwise the high temperature protection function of the battery may be triggered, and charging is prohibited. Product rechargeable temperature range (0°C to 45°C). In the ideal charging temperature range (15°C~ 35°C), the service life of the battery can be greatly prolonged.

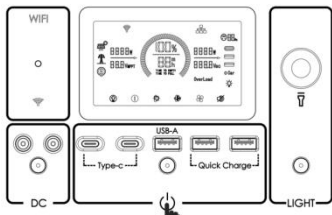
3.3 Product Disposal

- ◆ ⚠ After the machine battery is completely discharged, put the machine battery in the designated battery recycling bin. Batteries are dangerous chemicals, so it is strictly forbidden to put them in ordinary garbage bins.
- ◆ Be sure to comply with local laws and regulations on battery recycling and disposal.

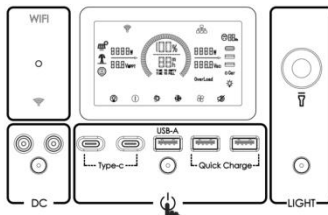
04 General Product Usage

4.1 Power On & Power Off

- ◆ Three wake-up methods:
 1. When the device is turned off and the Type-C socket detects load access, the power supply automatically powers on and the display screen lights up.
 2. Long press the power button for 3~5 seconds to light up the display screen.



Long press to open



Long press shutdown

3. AC/solar/car charging input is connected, and the display screen will light up.

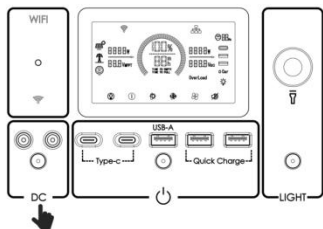
4. Press the main power switch for 3 ~ 5 seconds, and the product will shut down.

💡 Attention: When this product continues for half an hour without any operation, the display screen will automatically go out. When there is an operation change, the display screen will automatically light up.

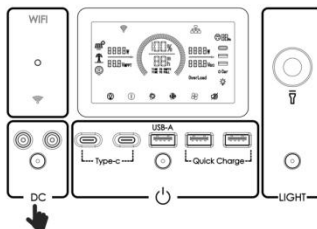
The product will enter sleep mode after 1 hour without input charging and without any load access.

4.2 Use 12V output and wireless charging function

◆ After the main power supply is turned on, press the DC output power switch to turn on DC output and wireless charging. Press the DC output power switch again to turn it off.



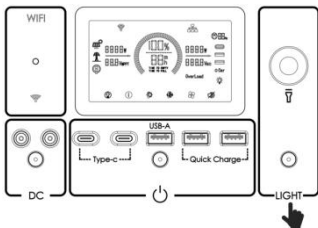
Short press to open



Short press close

4.3 Reading Lamp

◆ After the main power supply is turned on, please click to turn on the strong light; Click again to turn on the dim light; Press again to turn on the SOS rescue signal flash. Finally, click again to turn off the reading light.

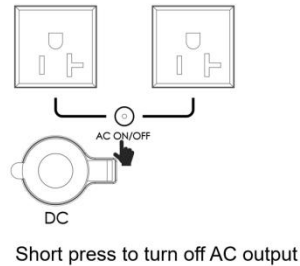
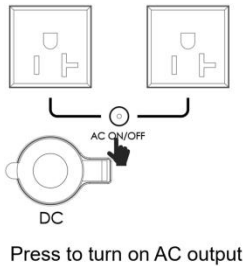


Short press to open

4.4 AC Output

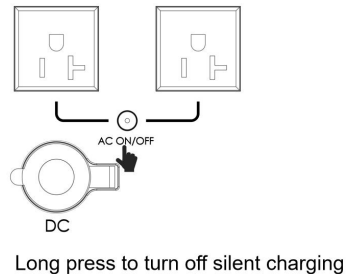
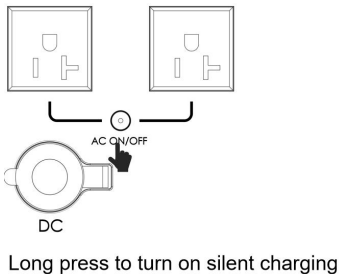
- ◆ ⚠ The AC output has two specifications: 110V(60Hz)/230V(50Hz). The specifications are set before delivery and cannot be changed. Before using the equipment, please check the voltage level of the product in advance and use the electrical equipment in a standardized manner to avoid injury to the equipment and personal.
- ◆ After the main power supply is turned on, press the AC output power switch to turn on the AC output port. Press the AC output power switch again to turn it off.
- ◆ When the AC output power switch is turned on, if you want to shut down, please turn off the AC power switch first.
- ◆ When the AC output power switch is turned on, there is no load output for 30 minutes, and the power switch is automatically turned off

💡 **Note:** When AC output is not used, please turn it off in time to avoid battery power loss.



4.5 Silent charging

- ◆ Silent charging, when enabled, it will run at 0.2c charging power.
- ◆ Manual switch: Hold down AC ON/OFF to enable/exit silent charging.



4.6 Uninterruptible Power Supply

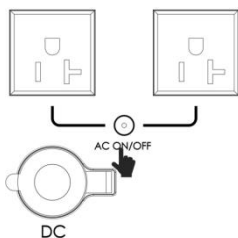
- ◆ This system has UPS function. When the AC socket is connected to the mains supply (in this case, the AC power comes from the grid, not from the battery), the grid can supply power to the load through the bypass relay and recharge its own battery at the same time. When the battery is fully

charged, the charging will automatically stop.

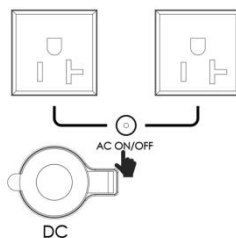
- ◆ When a power outage occurs, the battery output will automatically start and continue to supply power to the electrical equipment. The switching time of the battery power supply is only 10 milliseconds, so as to ensure uninterrupted power supply to electrical equipment.

4.7 Smart Drive Mode

- ◆ When the load power is greater than the rated output power, the Smart-drive mode will start! When the product recognizes that the required power of the load is greater than the rated output power, it can still supply power to the load. So that you can use more types of electrical appliances, so that you can get extraordinary use experience!
- ◆ This product starts the smart driving function by default.
- ◆ Manual: Press AC ON/OFF twice to turn on and off.
- ◆ The icon  will be displayed after the driver starts.
- ◆ When using the Smart-drive function, please pay attention to the following:
 - 1) This product cannot be connected to the grid for power generation.
 - 2) Smart Drive Mode is not available when charged.
 - 3) Smart drive mode is specially designed for resistive load, which is suitable for heating equipment, not for all electrical appliances. It is recommended to use heating electrical equipment, such as hair dryer, electric kettle, electric heater, chainsaw, induction cooker, and so on. Some electrical appliances equipped with voltage protection (such as precision instruments, etc.) are not suitable for smart drive mode. To confirm whether the device can use smart driving mode, please fully test it before using it.



Short press 2 times to open

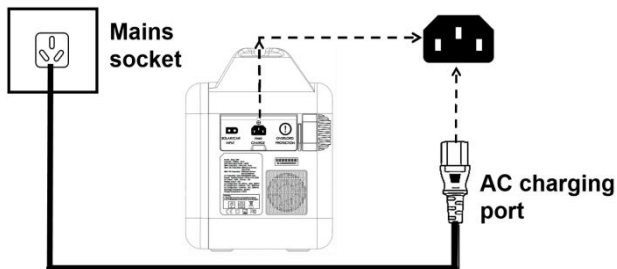


Short press 2 times to close

4.8 AC, Car, Solar Charging

AC charging

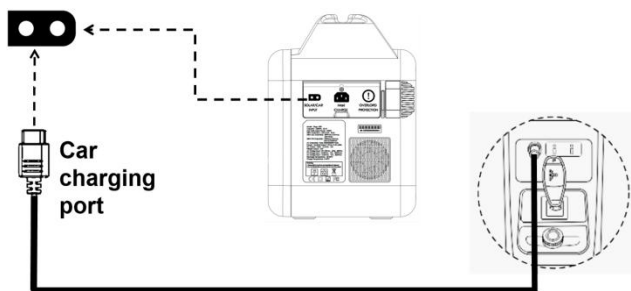
This product is built-in with bi-directional inverter, which can output alternating current and also charge the battery by power grid. See the following figure for connection mode.



⚠ Charging process equipment according to the temperature of the cell, battery capacity and other factors to determine the size of the charging power to ensure that the battery is in the optimal state.

Car charging

This product can be charged by using the cigarette lighter port on the car, and the connection mode is shown in the following figure. Please start car ignition before recharging this product through car input port, so as not to cause the car battery to drain. At the same time, make sure that the cigarette light port of the car and the cigarette lighter plug of the car charge input line are in good contact. The company will not assume responsibility if the machine is not operated in accordance with these guidelines.

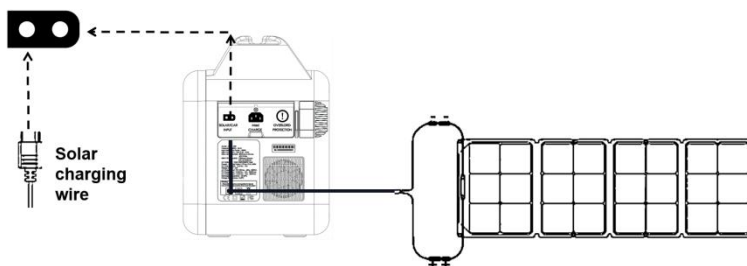


⚠ Confirm the current output capacity of the cigarette light port before use. If it is less than 10A, the fuse of the cigarette light port will be damaged.

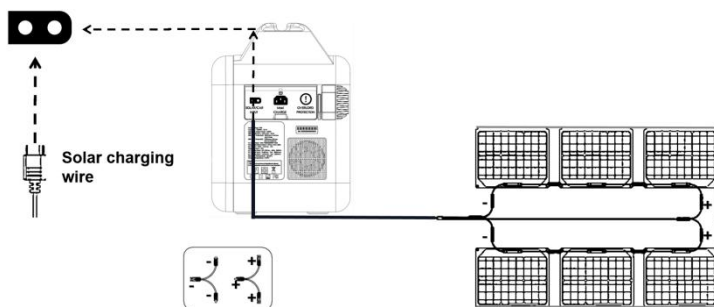
Solar charging

Users can use the universal solar panel with MC4 interface standard to power the product, as long as the voltage and current meet the requirements(10-30V 10A MAX). Pay attention to the connection sequence of positive and negative terminals at the interface. Incorrect connection may cause damage to the device.

1) Schematic diagram of solar charging by single plate connection



2) Schematic diagram of connection and parallel connection of two solar charging plates

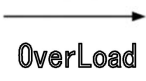


05 Troubleshooting & Maintenance

5.1 Troubleshooting

The display screen will show informations for device protection through different icons and its combinations.

Icons	Fault analysis	Solution
	Battery full	The input arrow icon blinks, the battery is fully recharge. Disconnect this product from recharging, and the system will automatically recover.
	Charging high temperature protection	The Enter arrow icon, and the high temperature icon blink together. Cool down the battery properly to restore the power supply.

	Charging low temperature protection	The Enter arrow icon and the low temperature icon blink together. After the battery is properly warmed, the power supply can be restored.
	Discharge high temperature protection	The output arrow icon and the high temperature icon flash together. Please wait for the battery to cool down and then restore the power supply.
	Discharge low temperature protection	The output arrow icon and the low temperature icon blink together. Place the battery in a warm place and restore the power supply after the battery warms up.
	Charge overload protection	During the charging process, the input arrow icon and OVERLOAD icon will blink together, pull out the AC input plug, restart this product, and then plug in AC power again. If the problem still persists, please contact us through the after-sales service center.
	Discharge overload protection	During the discharging process, the output arrow icon and OVERLOAD icon flash together. This product can be restored after pulling out the loads and restarting the it. The loads must be used within the rated power.
	USB Overload Protection	USB output port icon and OVERLOAD icon flashes together, after unplugging the appliance, it can automatically resume operation after 10 seconds.
	The communication between the main control board and AC failed	The parallel icon flashes. If there is no recovery after restarting the machine, please contact us through the after-sales service center.
	Inverter output overload	AC icon, OVERLOAD icon flashing, 10 seconds after restart ON/OFF can be restored, please note that the electrical appliances must be guaranteed to be used within the rated power.
	Over-temperature protection of inverter	AC icon and high temperature icon flash. After the interface cools down, the AC ON/OFF switch can be turned on again, and the operation can be resumed automatically. If there is no recovery, please contact us through the after-sales service center.
	DC Output Overload	Car icon, OVERLOAD icon flashes, restart the machine can be restored. If there is no recovery, please contact us through the after-sales service center.

	DC high temperature protection	Photovoltaic charging icon and high temperature icon flash, and normal use can be resumed after the interface cools down.
	Fan	The fan icon blinks. Check whether the fan is stuck. Restart the machine. If no recovery, please contact us through the after-sales service center.
TIME TO EMPTY 	Battery under voltage	TIME TO EMPTY icon. When the AC icon blinks simultaneously, it indicates that a level-1 undervoltage alarm is generated and the AC stops output. Charge the battery.
TIME TO EMPTY 	Battery level 2 undervoltage	When the PD icon blinks simultaneously, a level-2 undervoltage alarm is generated and the PD/DC12V output stops. Charge the battery.
TIME TO EMPTY 	Battery undervoltage protection	TIME TO EMPTY icon. When the USB icon blinks simultaneously, the battery enters the undervoltage protection and all ports (including AC, DC, USB, and wireless charging) stop output. Charge the battery.
F01.	The BUS soft start of the inverter fails.	The output voltage displays the fault icon. There are two solutions: 1. No operation is required. The vm returns to normal five minutes later. 2. Hold down the main power supply to power off the device. Wait for one minute and then start it again. If the problem still cannot be resolved, please contact us through the after-sales service center.
F02.	The inverter output is short-circuited.	
F03.	The inverter BUS undervoltage	
F04.	The inverter BUS overvoltage is faulty.	
F05.	The BUS of the inverter is short-circuited	
F06.	The output overcurrent of the inverter is faulty	
F07.	The DC component of the inverter is too high.	
F08.	The inverter is overheated.	

F09.	The inverter overdischarge is faulty.	
F10.	The inverter charging overcurrent is faulty	
F11.	The inverter current sensor is faulty	
F12.	The inverter output overvoltage or overfrequency is faulty	
F13.	AC load short circuit	The output voltage shows the fault icon: 1. Remove the AC load and wait for five minutes. 2. Unplug the AC load and press the POWER button to forcibly shut down the AC. Wait for one minute and restart the AC. If the problem still cannot be resolved, please contact us through the after-sales service center.
F14.	The inverter mains relay is faulty	The output voltage displays the fault icon. There are two solutions: 1. No operation is required. The vm returns to normal five minutes later. 2. Hold down the main power supply to power off the device. Wait for one minute and then start it again. If the problem still cannot be resolved, please contact us through the after-sales service center.
F15.	The fan of the inverter is faulty	
F16.	The communication between DSP and MCU of inverter is faulty	

5.2 Maintenance

Maintenance item	Maintenance cycle
Clean housing and output (including DC output/AC socket/USB output port) with a clean dust-free cloth	Three months
The battery is charged and discharged once, and the battery is fully charged after being turned off to 20%.	Three months

06 Specifications

General Information

	Power Station 600	Power Station 1000
Net weight	9.5 kg	11.1 kg
Dimensions	340*262*192 mm	
Capacity	672 Wh	1008 Wh
Cycle life	2000 times (25 °C, 1C discharge)	

Charging Information

AC Charging:	500W Maxi Super Fast Charge	800W Maxi Super Fast Charge
Car charging	12V, 10A, 120W (Max)	
Solar charging	10~30V, 10A, 200W (Max)	

Output Ports

AC (x2)	110V/60Hz or 230V/50Hz for a total of 600W	110V/60Hz or 230V/50Hz for 1000W
Car Port Output (x1) DC Output (x2)	DC cigarette lighter: 13.2 V, 10A DC5525: 13.2 V, 10A Total 132W	
USB-A (x1)	5V, 2.5 A; 12.5 W	
Type-C (x2)	5V/9V/12V/15:3A; 20V:5A; each 100W	
Fast Charge 3.0 (x2)	5V/9V/12V, 2.4 A; each 28W	
Wireless charging	10W	

Others

Operating ambient temperature range	0 ~ 45 ° C (charge), -20 ~ 45 ° C (discharge)
Humidity Range of working environment	RH 0%-85%, no coagulation