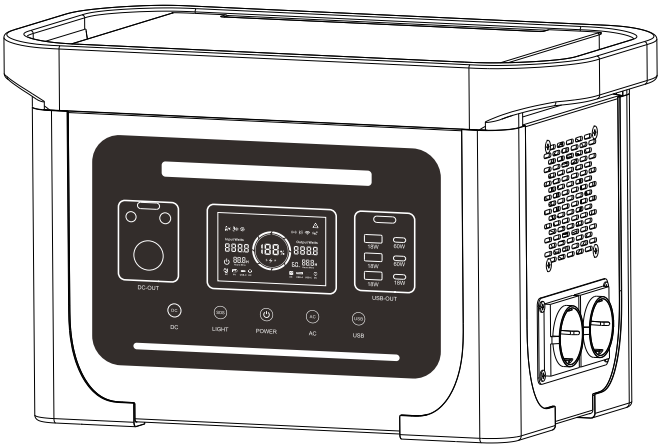
USER MANUAL

1000W Portable Power Station

MUST®



- Thank you for purchasing portable power station.
- Please read the user manual carefully and follow the instructions in the manual to use the power station correctly.
- If you have any questions, please contact us.

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SAFETY INSTRUCTIONS

⚠ CAUTION

A photovoltaic panel charging the internal battery shall be compitable with a charge controller in accordance with UL 1741 or UL 62109-1;

The external power supply shall be in accordance with the Standard UL 60950-1 and CAN/C-SA C22.2 No. 60950-1, or UL 1310 and No. 1, CAN/CSA C22.2 No. 223, or No.1, CAN/CSA C22.2 No. 223;

A car power adapters standard that complies with the enclosure and points required by the Standard for Vehicle Battery Adapters, UL 2089, and power supply standard, CAN/CSA C22.2 No. 107.1. The connector plug shall incorporate a fuse or other protective device having a current rating not larger than 15 A.

⚠ WARNING

INSTRUCTIONS PERTAINING TO RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

When using this product, basic precautions should always be followed, including the following:

a) Read all the instructions before using the product.

b) To reduce the risk of injury, close supervision is necessary when the product is used near children.

c) Do not put fingers or hands into the product.

d) Use of an attachment not recommended or sold by power pack manufacturer may result in a risk of fire, electric shock, or injury to persons.

e) To reduce risk of damage to the electric plug and cord, pull the plug rather than the cord when disconnecting the power pack.

f) Do not use a battery pack or appliance that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.

g) Do not operate the power pack with a damaged cord or plug, or a damaged output cable.

h) Do not disassemble the power pack, take it to a qualified service person when service or repair is required. Incorrect reassembly may result in a risk of fire or electric shock.

i) To reduce the risk of electric shock, unplug the power pack form the outlet before attempting any instructed servicing.

SAFETY INSTRUCTIONS

RISK OF EXPLOSIVE GASES

To reduce risk of battery explosion, follow these instructions and those published by battery manufacturer and manufacturer of any equipment you intend to use in vicinity of the battery. Check caution mark on these products and on engine.

PERSONAL PRECAUTIONS

1) Have plenty of fresh water and soap nearby in case battery acid contacts skin, clothing, or eyes.

2) Wear complete eye protection and clothing protection. Avoid touching eyes while working near battery.

3) If battery acid contacts skin or clothing, wash immediately with soap and water. If acid enters eye, immediately flood eye with flowing cold water for at least 10 minutes and get medical attention immediately.

4) NEVER allow smoking spark or flame in vicinity of battery or engine.

5) Be extra cautious to reduce risk of dropping a metal tool onto battery. It might spark or short-circuit battery or other electrical part that may cause explosion.

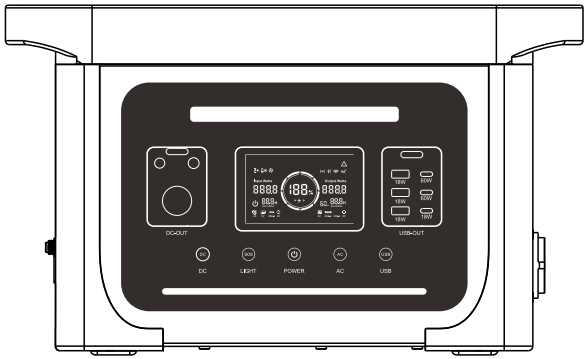
6) When charging the internal battery, work in a well ventilated area and do not restrict ventilation in any way.

7) Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.

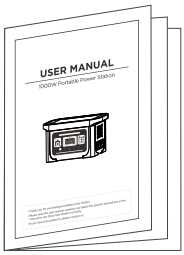
8) Do not expose a power pack to fire or excessive temperature. Exposure to fire or temperature above 265°F(130°C) may cause explosion.

9) Have servicing performed by a qualified repair person using only identical replacement parts. This will ensure that the safety of the product is maintained.

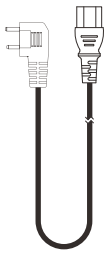
PACKING LIST



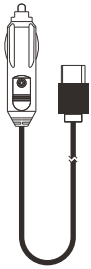
Portable power station



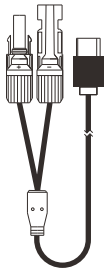
User manual



AC charging cable



Car charging cable

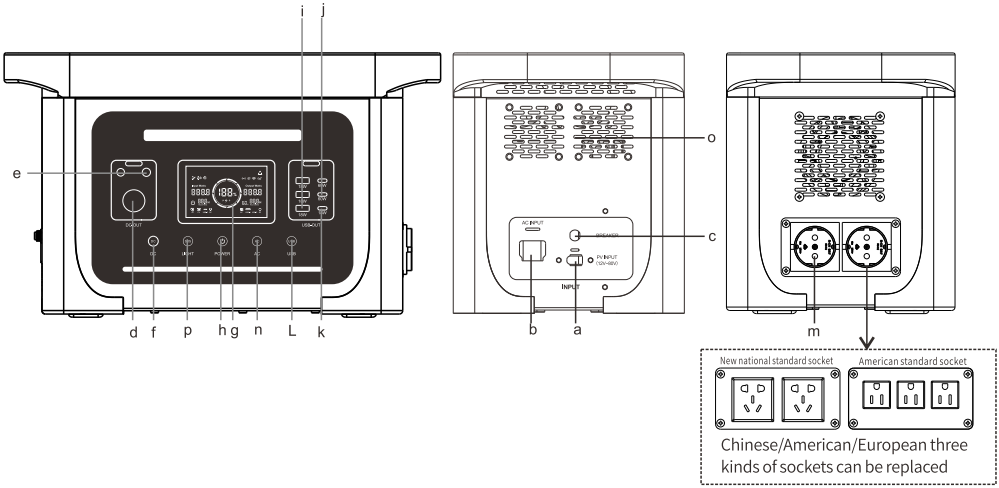


Solar charging cable

NO.	Name	QTY.	Specification	Check
1	Portable power station	1	1075Wh	✔
2	AC charging cable	1	1000mm	✔
3	Car charging cable	1	Cigarette lighter to XT60	✔
4	Solar charging cable	1	MC4 to XT60 port	✔
5	User manual	1	English version	✔

* The schematic diagram is for function description only. The actual appearance is subject to the actual object.

PRODUCT FEATURES



a. **Solar Input Port** - Plug the XT60 connector into the solar charging port of the power supply. The LCD displays the PV sign and input power (up to 600W) in real time.

b. **AC Input Port** - Insert the plug into the wall charging port, and then insert the other end into the power charging port. The LCD displays the "AC" sign and input power in real time (maximum power up to 1000W).

c. **Overload Protection Switch** - When AC charging is failure, check whether the overload protection switch is closed. If so, press reset and recharge.

d. **Car charger DC output port -** Support 12V/10A output (maximum output power 120W), the paired DC charging port is the cigarette lighter port.

e. **DC Output Port** - Each port supports 12V/5A output, and the total output power of the two ports is 120W. The paired DC charging port has an outer diameter of 5.5mm and an inner diameter of 2.5mm.

f. **DC Output Switch** - Press the DC output switch to turn on the DC output function, and the LCD displays the "DC" sign and output power in real time. Press the button again to turn off the DC output function.

g. **LCD Display Screen** - Collection of data indicators for Portable power station.

h.**Main Power Switch** - Press once to wake up the screen, and hold down for 2S to shut down the screen

i. **USB-A Output Ports** - Support fast charging, each port output power 18W,Three ports total output power 54W.

* The schematic diagram is for function description only. The actual appearance is subject to the actual object.

PRODUCT FEATURES

j. **USB-C Output Ports** - Support fast charging, output power of each port is 60W.

k.**USB-C Output Ports** - Support fast charging, each port output power of 18 W.

L. **USB Output Switch** - Press the USB output switch to enable the USB output function. The LCD displays the "USB-A" and "USB-C" signs and output power in real time. Press the button again to turn off the USB output function

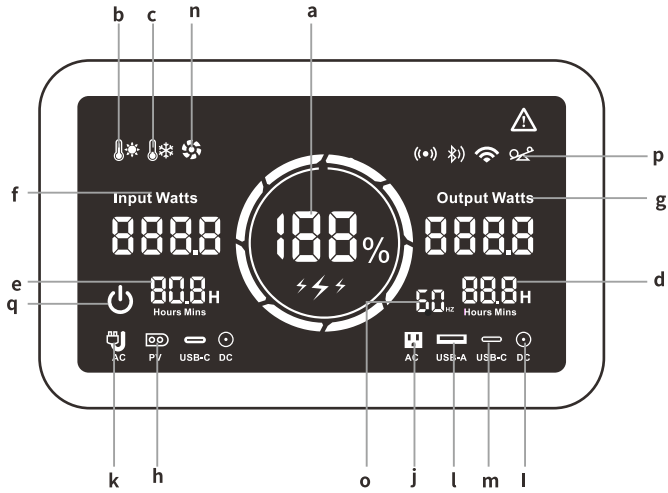
m.**AC Output Port** - Pure sine wave 220V AC output port with rated output power is 1000W and peak power of 2000W.

n. **AC Main Switch** - Press the AC main switch to turn on the AC output function. The LCD displays the "AC" sign, output frequency and output power in real time. Press the button again to turn off the AC output function.

o. **Air Inlet & Outlet** - Used for heat dissipation and air inlet when energy separately power is running (one air inlet and outlet on the left and right side of the product).

p. **LED switch -** Press 1S (to turn on first gear 50% brightness) **-** Click (to turn on second gear 100% brightness) **-** Click (SOS flashing) **-** Click or hold 2S (to turn off)

LCD DISPLAY INTRODUCTION



a.**Battery power percentage -** Displays the real-time percentage of the battery, and the 8-bar lights respectively indicate that the power is 12%, 25%, 37%, 50%, 62%, 75%, 88%, 100%.

b. **High Temperature Indicator** - When the internal temperature of the power supply reaches a certain temperature, the product will give out a high temperature warning signal, and the high temperature indicator will light up.

c.**Low temperature indicator -** When the internal temperature of the power supply reaches a certain temperature, the low temperature indicator lights up.

d.**Estimated remaining service time -** Estimated time is the remaining usage time available under current load conditions.

e.**Estimated remaining charge time -** Estimated time is the remaining charge time available under current charging conditions.

f. **Input Power** - The power absorbed in real time during charging.

g.**Output Power** - Total output power of all output ports when the discharging.

h.**PV icon -** Displays this icon when the power supply is charged using the solar input port.

i.**DC icon -** Press once to wake up the screen, and hold down for 2S to shut down the screen

j. **AC Output icon** - This icon is displayed when uses the AC output port to charge the device.

k. **AC Input icon** - This icon is displayed when charged through the AC input port.

l. **USB-A Output icon** - This icon is displayed when the USB-A output port to charge the device.

m. **USB-C Output icon** - This icon is displayed when the USB-C output port to charge the device.

n.**Fan icon -** This icon is displayed when the power supply uses a fan.

o. **Frequency -** AC frequency when using AC output port.

p. **Overload icon -** This icon is displayed when the power input and output are overloaded.

q. **Switch icon -** This icon is displayed when the power is turned on.

DISCHARGING INSTRUCTIONS

Discharge port description

AC Output Port: It supports electrical power appliances with a voltage of 220V~240V(or 110V), a frequency of 50Hz/60Hz, and a rated power of no more than1000W.

DC Output Port: Each port can provide rated voltage 12V, maximum current 5A; The total output power of the two ports is 120W.

Car charger DC output port: provides DC output, the output power is 12V/10A, the maximum output power is 120W

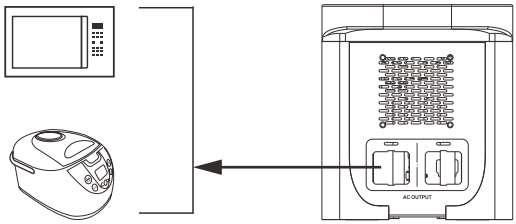
USB-C Output Ports 1: Support fast charging, with a maximum output power of 18W.

USB-C Output Ports 2&3: Support fast charging, maximum output power of 60W.

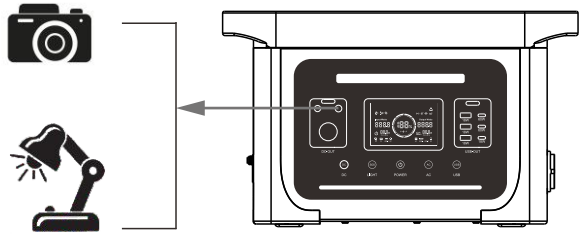
USB-A Output Port: Supports fast charging. The maximum output power of each port is 18W, and the total output power of Three ports total output power 54W.

Recommended discharge mode

1. Ac output port: The maximum output power of the AC output port of this product is 1000W. The AC output port of our product can be used for rice cookers, electric water heaters,Electric oven and other electrical appliances with rated power not exceeding 1000W are used. The use time depends on the rated power of the appliance.

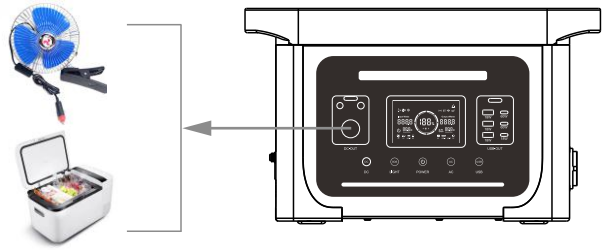


2. Dc output port: The maximum output power of the DC output port of this product is 60W, and the total output power of the two ports is 120W. The DC output port of our product can be used for cameras, lamps, digital appliances and other electrical appliances.

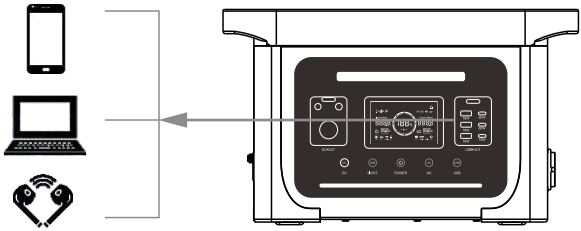


* The schematic diagram is for function description only. The actual appearance is subject to the actual object.

3. Car charger DC output port: the maximum output power of the car charger output port is 120W, and the car charger output port of our product can be used for car fans, car refrigerators and other electrical appliances.



4. Usb-a USB-C output port: The USB output port of this product supports fast charging, and the maximum output power is 18W and 60W, respectively. The USB output port of our product can be used for mobile phones, computers, Bluetooth headsets and other electrical appliances.



⚠ Warm Tips

1. This portable power station supports charging and discharging simultaneously. But to reduce battery loss and extend battery life, it is recommended to use the output function after the power station is fully charged or use only the DC output and turn off the AC output when charging.
2. The portable power station has two Euro socket (or three US sockets) with a total output power of 1000W. Therefore, when using the 220V~240V(or 110V~120V) AC output function, make sure that the total rated power of the connected device does not exceed 1000W. Once exceeding 1000W, the battery will initiate over-current protection and automatically turn off the AC output.
3. In order to reduce the power loss, when there is no load for more than 12 hours, the power station will automatically turn off the power to save power.

RECHARGING INSTRUCTIONS

Recharging Port Instruction

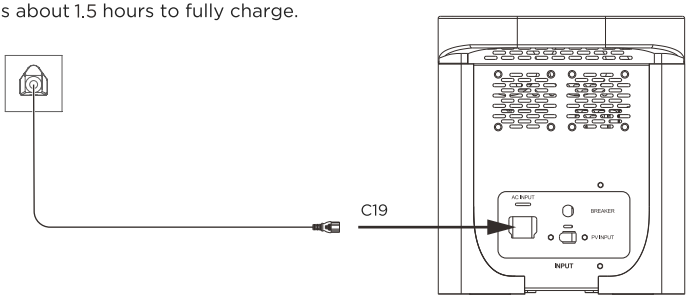
AC Input port: AC input port,1000W Max

Solar Input Port: XT60 input port, 12V-80V 600W Max MPPT

Suggested Recharging Methods

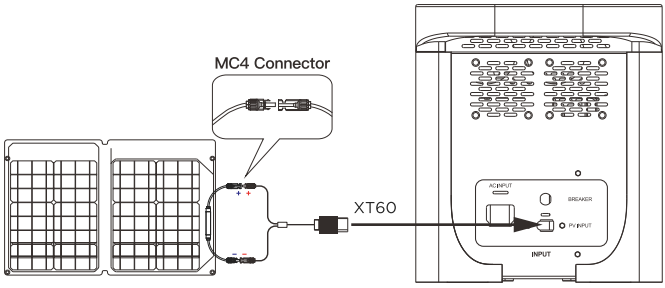
METHOD 1: RECHARGING BY WALL OUTLET

Use the AC charging cable which comes with our product to charge the energy storage power, with the maximum input power up to 1000W. It takes an hour to charge 90%, and it takes about 1.5 hours to fully charge.



METHOD 2: RECHARGING BY SOLAR PANELS

Using the solar panel to charge the power through the XT60 input port, the maximum input power is up to 600W, and it takes about 2 hours to fully charge. (The actual charging time depends on the intensity of sunlight and the rated output of the solar panel).



RECHARGING INSTRUCTIONS

⚠ Warm Tips

1. Be sure to use the AC charging cable or car cigarette lighter included with this product to charge this power supply.
2. When charging this product with an AC adapter, plug the AC plug into the wall outlet and then plug the DC plug into the DC input port of this product.
3. When charging this product using the car cigarette lighter socket, use the cigarette lighter socket with an output voltage of 12V-80V. Before charging, insert the car charger plug into the end of the car, and then insert the DC plug into the DC input port of this product. DC plug specification XT60 (some models may not match the shape of the cigarette lighter socket, do not use it in this occasion).
4. When using solar panels to charge this product, the solar panels must meet:
   (1) The open circuit voltage (OCV) is between 12V-80V;
   (2) Equipped with XT60 interface or MC4 interface (our accessories have included MC4 to XT60 cable). If your solar panel only has Anderson connectors, please purchase Anderson to XT60 cables.
5. After charging, please unplug the charger from the socket and unplug the other plug from this power supply.

TECHNICAL SPECIFICATIONS

HOST	
Product Name	1000W Portable Power Station
Battery Capacity	1075Wh(42Ah/25.6V)
1x AC Input	110V~120V 60Hz 1000W 220V~240V 50Hz 1000W
1x XT60 Input	PV 12V~80V 600W Max MPPT
AC Output	Total 1000W (Peak 2000W,0.5S) 100V~110V 60Hz Pure Sine Wave (**3x US sockets**) or 220V~240V50Hz Pure Sine Wave (**2x Euro socket**)
2x DC Output	12V⎓5A (Max 120W)
1x Car Charger Output	12V⎓10A (Max 120W)
3x USB-A Output	5V⎓3A, 9V⎓2A, 12V⎓1.5A (Maximum 18W per port, 54W total)
2x USB-C Output (60W)	5V⎓3A, 9V⎓3A, 12V⎓3A, 15V⎓3A, 20V⎓3A, (Max 60W)
1 x USB-C Output (18W)	5V⎓3A, 9V⎓2A, 12V⎓1.5A, (Max 18W)
LED output	2W
Operating Temperature	14-113°F (-10~45°C)
Storage Temperature	14-131°F (-10~55°C)
Net Weight	17.9 kg

WARRANTY

We warrants to the original consumer that products will be free from defects in workmanship and materials under normal use during the applicable warranty period as determined in the "Warranty Period" section below, subject to the "Exclusions" clause below.

⚠ Warranty Period

The warranty period of the portable power station is 12 months. Consumers need to provide a sales receipt for the first purchase or other reasonable documentary proof to determine the start date of the warranty period. Under normal circumstances, the warranty period is calculated from the date of purchase by the original consumer.

⚠ Exchange

If theproducts cannot be operated due to defects in workmanship or materials during the applicable warranty period, we will provide free replacement, and we will bear the freight. In addition, the replacement product will bear the remaining warranty period of the original product.

⚠ Refund

We provides a 30-day money-back guarantee for products purchased directly. If you are not satisfied for any reason, just let us know within 30 days. Once we receive the product and confirm its validity, we will refund the full amount.

To return the item, please contact us during our normal working hours. Please check before returning: (1) You purchased the product directly from our company; (2) You contact we and start the return process within 30 days of the original delivery date; (3) The product is returned in its original packaging, including all materials, in a new or as-new state.

⚠ Exclusions

Warranty does not apply to:

1. Misuse, abuse, modification, accidental damage, or use for any other purpose other than those authorized in the current product information;

2. Attempt to repair by anyone outside the authorized organization;

3. Non-original consumer purchasers;

4. The warranty does not apply to battery cells unless you fully charge the battery within 7 days after purchasing the product and at least once every 3 months thereafter.

FAQS

How to clean portable power station?

For simple cleaning, please use a dry non-abrasive cloth to wipe. If you want to wipe more cleanly, we recommend using a special cleaner for mobile phones and computer screens. Be careful not to expose the product to large amounts of water!

How to store portable power station?

Please store power station in a dry place and avoid direct contact with water. In order to extend the battery life, please fully charge the power station, then turn off the main power switch and store it at room temperature.

What kind of solar panels does power station support?

Solar panels have to meet the following requirements:
1)The open circuit voltage (VOC) of the solar panel is between 12V and 80V;
2)The solar panel is equipped with a XT60 interface or MC4 interface(Our accessories already include a MC4 to XT60 cable). If your solar panel only has an Anderson interface, please purchase an Anderson to XT60 cable.

Does portable power station have an MPPT function?

Yes, our power stations have MPPT function to ensure higher efficiency when charging with solar panels.

How to buy accessories for portable power stations?

If you need to buy power station accessories, you can contact us get related accessories information.

GUARANTEECERTIFICATE

Serial No.: _____

Customer`s Name				Contact Person	
Address				Telephone No.	
Product/Model:		Post Code		Fax No.	
Date of purchase			Expire Date		
Dealer Signature			Customer Signature		

GUARANTEECERTIFICATE

Serial No.: _____

Customer`s Name				Contact Person	
Address				Telephone No.	
Product/Model:		Post Code		Fax No.	
Date of purchase			Expire Date		
Dealer Signature			Customer Signature		