

ABOK

Portable Power Station

User Manual



Hi dear, thank you very much for purchasing and experiencing the 2000W portable power station. Before operating this product, please carefully read the user manual for proper operation.

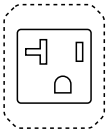
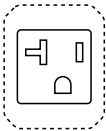
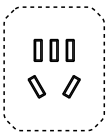
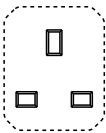
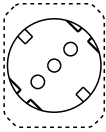
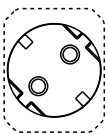
In accordance with the transportation requirements of international customs for battery products, the battery level of this product is only less than 30% when it leaves the factory. Please fully charge the product after unpacking it to start the 2000W experience tour.



Precautions For Use

1. Please avoid long-term storage and use of this product in environments with high temperature and humidity or direct sunlight to avoid shortened battery life and other failures. The product should not be close to the fire source, otherwise it may cause a major fire or accident.
2. This product must not be disassembled or modified. Improper operation may cause product malfunction or even fire.
3. Be careful not to drop the product.
4. Please store or use this product out of the reach of children, otherwise the product may be dropped or collided and may cause bodily injury to children.
5. Please use our original accessories, and we will not guarantee the defective products caused by the use of non-original accessories.
6. Please directly plug in the wall socket to charge the product, do not use extension cords or cable taps, otherwise there is a risk of damage to the extension cords and cable taps or even a fire; If the extension socket is plugged in to charge this product, please do not connect other electrical appliances to this socket, otherwise the household meter may trip.
7. When the product is not in use or idle, please turn it off and unplug the power cable. If it needs to be idle for a long time, please consume the product from a fully charged state to an uncharged state, then recharge it to about 50% of the battery level and store it. In order to prolong the life of the product, please take three months as a cycle, operate and keep it in this way.
8. If the product reaches scrap conditions, please discard or recycle the product in accordance with local laws.

AC Output Parameter

Type of AC port	AC output
 US	120Vac 50Hz/60Hz
 JP	100Vac 50Hz/60Hz
 CH	220Vac 50Hz
 UK	220-240Vac 50Hz/60Hz
 EU	220-240Vac 50Hz/60Hz
 KR	220Vac 60Hz

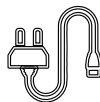
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Packing List



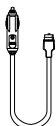
Portable Power Station



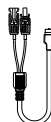
AC Charging Cable



User Manual



Cigarette Lighter Output Port
to XT60 Plug Cable



MC4 to XT60 Plug
Charging Cable

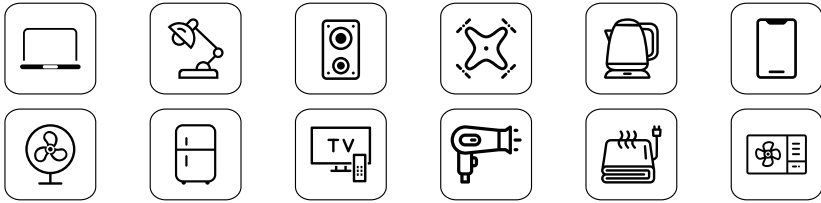
Product Introduction

This product is a portable power device with a built-in battery pack with charge/discharge function. It includes both AC output interface and output, etc. It also has functions such as display, interface control, protection, and alarm. Moreover, this product can be charged by mains AC, solar panels and vehicle charging. It can be used with up to two additional battery packs, providing a maximum capacity of 4608Wh.

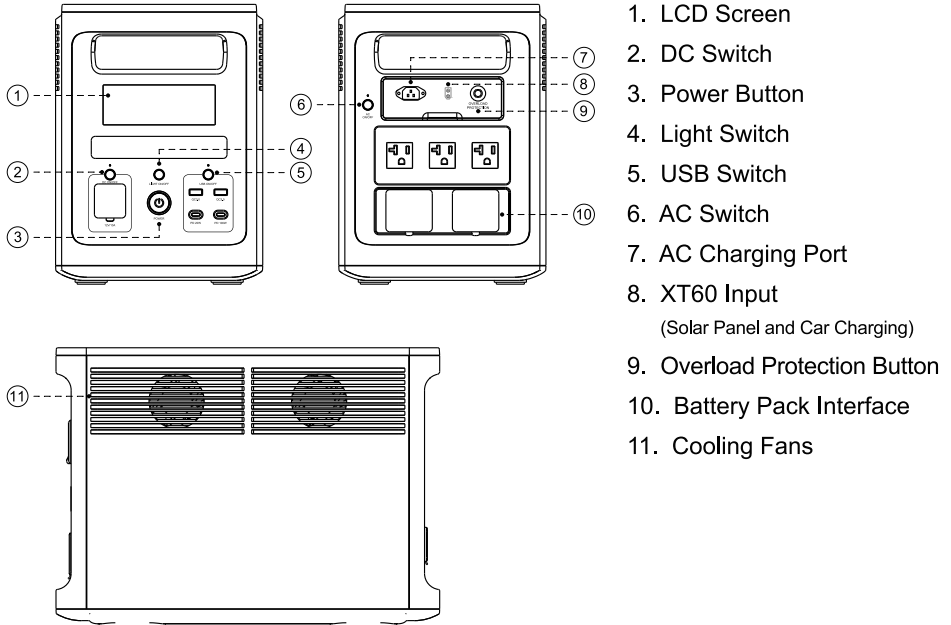
The following are the main features of this product:

- Equipped with LiFePO4 battery host, the battery energy is up to 1536Wh, and after merging, the maximum capacity can reach 4608Wh, which can meet the daily consumption of a family.
- Pure sine wave AC output can meet almost all daily electronic equipment and small household appliances.
- Two-way fast charging technology is adopted to fully charge the product within 1.5 hours.
- A great variety of output interfaces such as USB-A, Type-C PD3.0, car charger output, etc., meet many different application scenarios.

- In UPS mode, the switchover time is less than 10ms which is truly seamless switching.
- Multiple protection mechanisms such as battery, circuit, structure, etc., guarantee the product safety.



Button Function Introduction



① LCD Screen

Displays the product's battery level and status.

② DC Switch

Instructions: Short press the DC button to turn on the DC output port, and short press it again to turn it off.



③ Power Button

Instructions: Press and hold the power button for 3s to turn on/off the whole system.

④ Light Switch

Instructions: Short press the LIGHT button to cycle through modes in order: LED full on → SOS mode → strobe mode → LED off; if the LED is not off, long press the LIGHT button (≥ 1 second) to turn it off directly.

⑤ USB Switch

Instructions: Short press the USB button to turn on the USB output port and short press it again to turn it off.

		
USB-A×2	TYPE-C×1	TYPE-C×1
QC 3.0	PD-20W	PD-100W

⑥ AC Switch

Tap the AC button to enable the AC output function. Since there may be differences in the AC output frequency and voltage in different regions, if you need to switch the frequency and voltage, the operations are as follows:

- 1) Press and hold the AC button for 3 seconds to enter the frequency switching mode, the 50Hz or 60Hz icon will flash on the display, short press the AC button again to select 50Hz or 60Hz; when the icon stops flashing and displays 50Hz or 60Hz, it indicates the switch is successful.
- 2) Quickly press the AC button for 10 times to select voltage.

⑦ AC Charging Port

Charging the product via a household socket enables 1500W fast charging, with a full charge from 0 to 100% achievable in just three hours. When charging in this manner, please observe the following precautions:

- ※ It is advisable to directly plug the product into a wall socket for charging. The use of extension cords or cable taps should be avoided, as this could potentially cause damage to them or even lead to a fire hazard.
- ※ In the event that an extension socket is used for charging this product, refrain from connecting any other electrical appliances to the same socket. Failure to do so might result in a power outage due to circuit overload.

⑧ XT60 Port (Solar Panel Input)

This interface supports solar panel input or car charger input. For details, please refer to "Solar Panel Connection" on page 10 of this manual and "Car/Vehicle Charging" on page 11.

⑨ Overload Protection Button

When the power supply voltage is unstable due to lightning or other reasons, and there is a large voltage input at the AC Input, in order to protect the product, the overload protection function (safety circuit breaker) will activate and cut off the AC input port.

Please follow the sequence below to restore the AC input function:

- 1) Turn off the power button and unplug all ports.
- 2) After confirming that there is no abnormality in each part, turn on the power button.
- 3) Press the overload protection button, connect the AC Cable to restore the AC input.

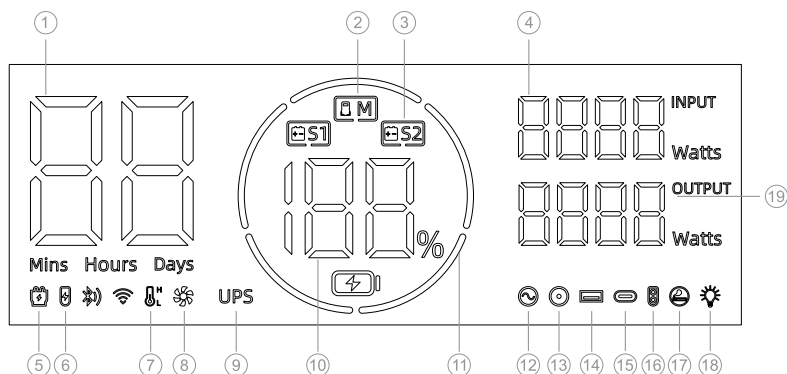
⑩ Battery Pack Interface

The capacity expansion need to be accomplished by connecting the parallel cable into the portable power station.

⑪ Cooling Suction/Exhaust Port

When the product reaches the temperature threshold set by the system, the cooling fan will automatically run, accompanied by a certain fan noise (fan noise below 60dB is normal). Do not block the cooling suction/ exhaust port during use of this product, and do not place any object within the range of 12 inches.

Introduction of Display Interface



- | | |
|------------------------------------|--------------------------------|
| 1. Remain Using/Recharging Time | 11. Battery Progress Bar |
| 2. Host Logo | 12. AC Output |
| 3. Parallel Operation Logo | 13. DC (12V) Output |
| 4. Input Power in Total | 14. USB Output |
| 5. Connected to the AC Mains | 15. PD Output |
| 6. XT90 Port | 16. XT60 (12V) Output |
| 7. High/Low Temperature Protection | 17. Cigar Lighter (12V) Output |
| 8. Fan Status | 18. LED Light |
| 9. UPS | 19. Output Power in Total |
| 10. Battery Level Percentage | |

Screen Display Description

Power display: When the product is in the charging state, the battery progress bar rotates continuously in the form of a clockwise marquee, and the battery level percentage gradually increases; when the product battery level is 0, the battery level percentage icon flashes.

Input and output status: When the product is working, the total input power, total output power and the cursor corresponding to the working area will be displayed on the screen.

Alarm prompt: See the following troubleshooting table for details.

Troubleshooting Sheet

Phenomenon	Cause	Processing method
 The above output icon flashes and beeps.	The output exceeds the rated value and a short circuit occurs.	Disconnect the load and restart the product.
 The temperature warning icon flashes and beeps.	The temperature of the product is too high or too low.	Remove the device and turn the power OFF Wait for the device to reach the appropriate temperature.
 The icon of connecting to the AC mains flashes and the product cannot be charged.	The charging cable is poorly connected.	1. Check the connection status of the charging cable and the power source. 2. Ensure the charging cable is securely connected to both the product and the power outlet.
 The parallel light blinks.	Parallel failure.	Charge the product with lower battery level, or discharge the product with higher battery level, (until the power difference between the two products is less than 80%), and then reconnect them.

UPS Mode

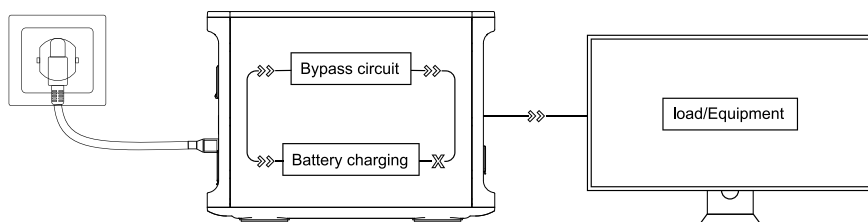
• UPS Feature

This product has the function of backup uninterruptible power supply.

The usage and operation precautions are as follows:

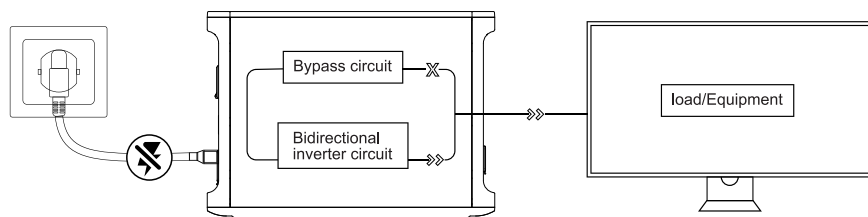
As shown in Pic1 below, when the product is connected between the wall socket and the electrical appliance, and the power supply and AC switch of the product are in the ON state, the product enters the UPS working mode. The AC mains in the socket supplies power to the electrical appliance through the bypass circuit, and also charges the product. In this working state:

- 1.The rated power of the electrical appliance must be lower than 1500W(only 100-120Vac) otherwise overload protection may be triggered.
- 2.The rated power of the electrical appliance must be lower than 2000W(only 220-240Vac) otherwise overload protection may be triggered.



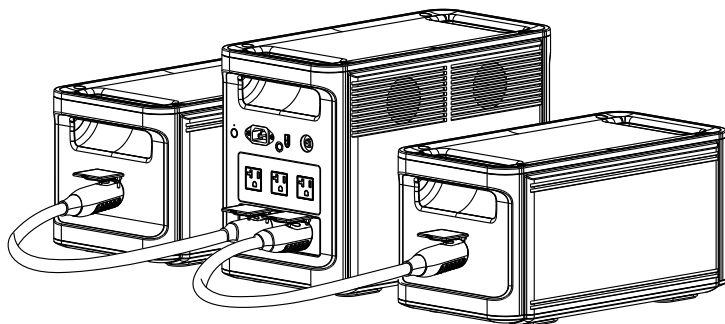
(Pic 1)

As shown in Pic2 below, when the AC mains at the socket end is disconnected, the bypass output inside the product stops working, the product switches to a bidirectional inverter circuit within 10ms, and the circuit outputs supply power to the electrical appliance to ensure that the electrical appliance is uninterrupted and works normally during the process.



(Pic 2)

Battery Pack Connection Instructions



The portable power station can connect up to two additional battery packs through parallel cables, with a maximum capacity of 4608Wh. When connecting, please make sure that both the portable power station and the additional battery packs are turned off. After the connection is completed, the S1 and S2 connection icons will be displayed on the screen. Once connected successfully, the system can start charging or discharging. During the charging and discharging process after connection, the power will be distributed according to the remaining power of the product.

When charging, the device with lower level has a higher charging power; when discharging, the device with higher level has a higher output power. If there is no external charging, energy exchange may occur between the portable power station and the battery packs. When their remaining capacities are close, the charging process will stop.

Precautions

- Please do not plug and unplug the connecting cable when the products is under use, please connect or disconnect these two products when they are turned off.
- Please do not make the connecting ports of the portable power station short-circuited.

Connection of Solar Panels

This product can be charged by connecting to a solar panel when there is light. The charging power depends on the light intensity and weather conditions.

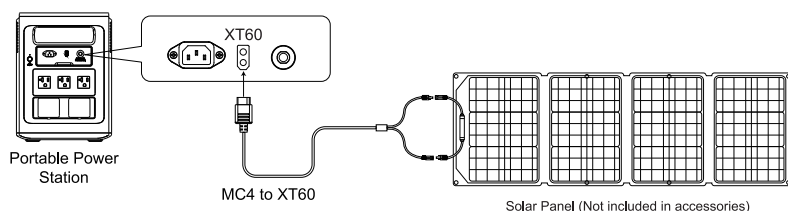
In this charging mode, we support solar panel input within 1200W, and the input voltage cannot exceed 90V, otherwise the product abnormality caused by it will not be covered by the warranty.

We recommend the following two charging schemes:

• Solar panel charging

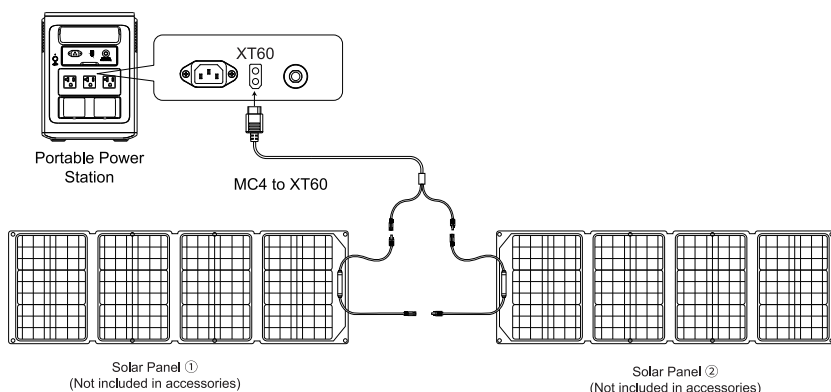
Scheme One

Portable Power Station Charging Area.



Scheme Two

Portable Power Station Charging Area.

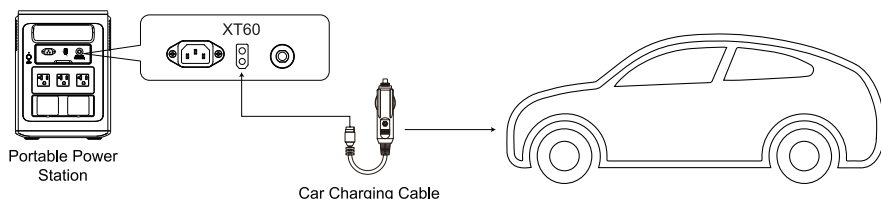


Car/Vehicle Charging

When the car is running, connect the car's charging port to the product using a car charging cable to charge the product. The connection method is shown in the picture below:

This product supports 12V/24V car charger charging, please pay attention to the following two points when using this method to charge:

- ※ Please do it when the car started, otherwise the car battery may be exhausted.
- ※ Vehicle charging power is usually in the range of 90-120W, and the charging time is long.
If fast charging is required, the AC mains charging is recommended.



Product Specifications

Product Name	Portable Power Station
Dimension	L*W*H=404*218*295mm
Weight	17.5Kg
Capacity	1536Wh
AC charging	1500W
XT60 Input	12-90V 1200W max
AC Output	2000W
USB-A Output	(QC3.0 18W)*2
Type-C① Output	(PD20W)*3
Type-C② Output	(PD100W)*1 Included PD3.0 Protocol
Car Charging Output	12V/10A
Shutdown Current	<500μA
Working Temperature	-10°C - 40°C/14°F - 104°F
Environment Humidity	≤90%RH
Cycle Times	>4000 times

Battery Specifications

Cell type	40135 LiFePO4
Rated voltage of single battery	3.2V
Rated capacity of single battery	20Ah
Rated voltage of battery pack	38.4V
Output voltage range of the battery pack	35V~43V
Rated capacity of battery pack	1536Wh

Warranty Card

Warranty Card	
Name	
Address	
Model	
Serial Number	
Shopping platform	
Tel	
E-mail	
Brand, Order number	
Purchase date	
Filling date	
What is the product failure	
Please fill in all the above items.	

This product comes with a 3-year warranty upon purchase, and an additional 2-year extended warranty is also available.

- If there is a quality problem within the range of normal use, we provide warranty service.
- After purchasing our company's products, please keep this product together with invoices and other items. When maintenance services are needed, please provide information according to our company's request.
- In the case where the warranty is damaged or altered, and no stamp of the sales store on the warranty, the warranty service may not be provided.
- Damage caused by use beyond the normal range of use is not covered by the warranty service.
- The content of the warranty scope shall be subject to the content recognized by the company.
- Even within the scope of the warranty, sometimes it will be exchanged for products with the same function. The shipping and repair fees for products outside the warranty range shall be paid by the customer.
- Sometimes the specifications and functions of the product will be updated without prior notice.

Disclaimer

Before use, please read the user manual of this product to ensure full understanding and correct use. After reading, keep the user manual properly for future reference. If you do not operate this product correctly, you could cause serious injury to yourself or others, or result in damage to the product and property. Once you use this product, you are deemed to have understood, recognized and accepted all terms and content of this document. Users undertake to be responsible for their own actions and all consequences arising therefrom. We are not responsible for all losses caused by the user's failure to use the product in accordance with the User Manual.

In compliance with the law, the company has the final right to interpret this document and all related documents of the product. If it is updated, revised or terminated without prior notice, please visit our official website for the latest product information.

FCC Warning

This device complies with part 15 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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.