

646N1040001\_ABOK\_主机说明书(英西)\_V1.03

材质:128g铜版纸,单黑双面印刷;

装订方式: 骑马订;

成品尺寸: 145\*210mm;

# Portable Power Station

## User Manual



Dear Customer, thank you very much for purchasing and experiencing the 1800 W portable power station. Before operating this product, please carefully read the user manual for proper operation.

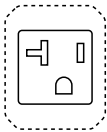
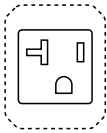
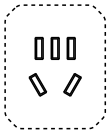
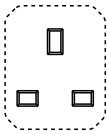
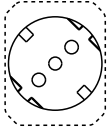
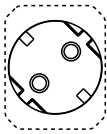
In accordance with the transportation regulations of international customs for battery products, the battery level of this product is less than 30 % when it is shipped from the factory. Please fully charge the product after unpacking it to start the 1800 W experience tour.



## Precautions For Use

1. Please avoid long-term storage and use of this product in environments with high temperatures and humidity or direct sunlight. This helps prevent shortened battery life and other potential failures of the product. 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 and may cause bodily injury to children.
5. Please use our original accessories, and we will not provide warranty coverage for the defective products caused by the use of non-original accessories.
6. Please plug the product directly into a wall socket to charge it. 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 used 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 discharge 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.
9. Please keep the inner and outer carton packaging materials of the product intact to avoid additional packaging costs incurred due to after-sales issues.

# AC Output Parameter

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

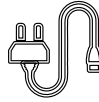
# Contents

■ Packing List .....	01
■ Product Introduction .....	01
■ Button Function Introduction .....	02
■ Introduction of Display Interface .....	05
■ Troubleshooting Sheet .....	06
■ UPS Mode .....	07
■ Battery Pack Connection Instructions .....	08
■ Connection of Solar Panels .....	09
■ Car/Vehicle Charging .....	10
■ Product Specifications .....	11
■ Battery Specifications .....	11
■ Connecting to APP .....	12
■ Warranty Card .....	13
■ Disclaimer .....	14
■ FCC Warning .....	15

# Packing List



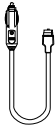
Portable Power Station



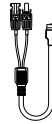
AC Charging Cable



User Manual



Cigarette Lighter Port to  
XT60 Cable



MC4 to XT60 Cable

## Product Introduction

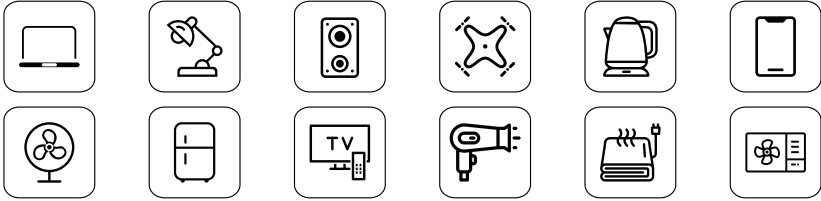
This product is a portable energy storage power supply with a large capacity of 1024 Wh, stable output of 1800 W, and high-speed charging in about 1 hour, using LiFePO<sub>4</sub> battery with high safety performance.

It can be used as a backup power supply in scenarios such as emergency power cut, disasters, camping trips and in vehicles, and can also provide power for various electric tools.

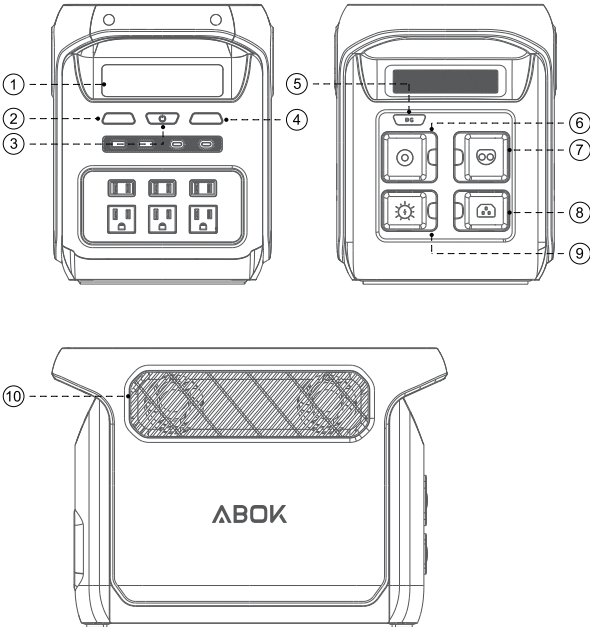
With 1800 W high power and pure sine wave AC output, it is suitable for low-to-medium power devices like outdoor electric grills, camping air conditioners, portable induction cooktops, small household refrigerators, gaming laptops and professional cameras. It works for long camping trips, outdoor workstations and home emergency backup.

The AC input/output voltage frequency can be switched between 50 Hz and 60 Hz automatically or manually. Additionally, this product supports a maximum solar charging power of 1000 W, enabling you to charge it even during a power outage or in outdoor scenarios.

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



# Button Function Introduction






1. LCD Screen
2. USB Switch
3. Power Button
4. AC Switch
5. DC Switch
6. Cigarette Lighter and DC 5521 Output
7. Battery Parallel Port
8. AC Charging Port
9. XT 60 PV/CAR Input
10. Air Intake/Outlet

## ① LCD Screen

Displays the product's battery level and status.

## ② USB Switch

Operation method: short-press the USB button to turn on/off. When using a single USB-A port, any one port can support QC 3.0 36 W. When both ports are used simultaneously, both USB-A ports output 5 V $\overline{=}$  2.4 A.

 USB-A×2	 USB-C×1	 USB-C×1
QC 3.0	PD 100 W	PD 140 W

## ③ Power Button

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



## ④ AC Switch

Tap the AC button to enable the AC output function. Since the AC output frequency and voltage may differ in different regions, if you need to switch them, follow the steps below:

1. Press and hold the AC button for 10 seconds to enter the frequency switching mode. The 50 Hz or 60 Hz icon will flash on the display. Then, short-press the AC button again to select 50 Hz or 60 Hz. When the icon stops flashing and shows 50 Hz or 60 Hz, it means the switching is successful.
2. Quickly press the AC button 10 times to select the voltage.

## ⑤ DC Switch / ⑥ Cigarette Lighter and DC 5521 Output

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

 Cigarette Lighter Output×1	 DC 5521 Output×1
12 V $\overline{=}$ 10 A	12 V $\overline{=}$ 3 A

## ⑦ Battery Parallel Port

Use a parallel cable to connect the Portable Power Station and Extra Battery Pack in parallel, so as to achieve capacity expansion.

## ⑧ AC Charging Port

When charging the product in this way, 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 damage them or even cause a fire.
- ※ If an extension socket is used to charge this product, refrain from connecting any other electrical appliances to the same socket. Failure to do so might result in a circuit trip due to circuit overload.

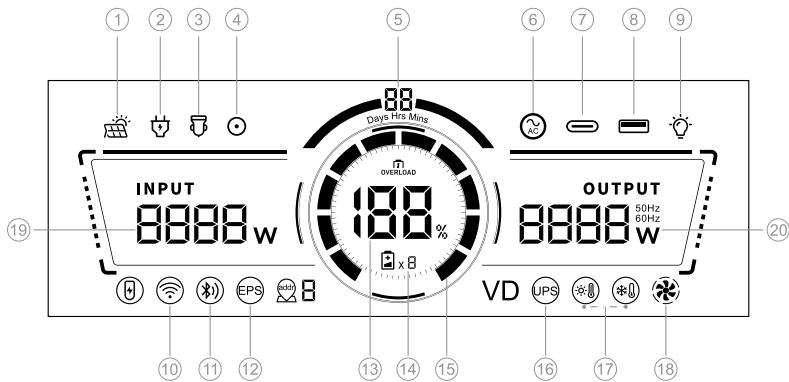
## ⑨ XT 60 PV/CAR Input

This interface supports solar panel input or car charger input. For details, please refer to "Connection of Solar Panels" on page 9 of this manual and "Car/Vehicle Charging" on page 10.

## ⑪ Air Intake/Outlet

When the fans are working, please don't block the channels.

# Introduction of Display Interface



1. PV Input
2. Mains Connection
3. Cigarette Lighter Output
4. DC 5521 Output
5. Remaining Usage Time
6. AC Output
7. USB-C
8. USB-A
9. LED
10. WiFi
11. Bluetooth
12. EPS
13. Battery Level in Percentage
14. Number of Extra Battery Packs
15. Battery Level Indicator
16. UPS
17. High/Low Temperature Warning
18. Fan Status
19. Total Input Power
20. Total Output Power





## Screen Description

**Battery Level Display:** When the product is in the charging state, the battery progress bar rotates clockwise, and the battery percentage gradually increases; when the product's 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 icons 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
 <p>The above output icon flashes and beeps.</p>	<p>The output exceeds the standard or it's short-circuited</p>	<p>Disconnect the load and restart the product.</p>
 <p>The temperature warning icon flashes and beeps.</p>	<p>The temperature of the product is too high or too low.</p>	<p>Take the product out of the charging state, remove all loads, turn the power off, wait for the device to reach a suitable operating temperature, and then the alarm will be cleared.</p>
 <p>The icon of Mains connection flashes and the product cannot be charged.</p>	<p>The charging cable is poorly connected.</p>	<ol style="list-style-type: none"> <li>1. Check the connection status of the charging cable and the power source.</li> <li>2. Ensure the charging cable is securely connected to both the product and the outlet.</li> </ol>
 <p>The Parallel Connection Icon blinks.</p>	<p>Parallel failure.</p>	<p>Charge the power station with the lower battery level, or discharge the one with the higher battery level (until the power difference between the two is less than 80 %), then reconnect them for parallel connection.</p>

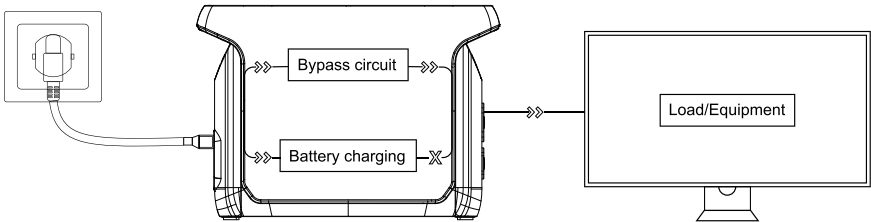
# UPS Mode

## ● UPS Features

This product has the function of backup uninterruptible power supply. The usage and operation precautions are as follows:

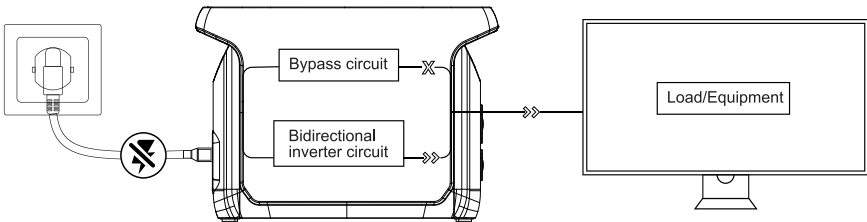
As shown in Pic.1 below, when the product is connected between the wall socket and the electrical appliance, and the power supply and AC switch of the product are in the ON state, the product enters the UPS working mode. The AC mains in the socket supplies power to the electrical appliance through the bypass circuit, and also charges the product. In this working state:

1. The rated power of the electrical appliance must be lower than 1500 W(Only 100-120 Vac), otherwise overload protection may be triggered.
2. The rated power of the electrical appliance must be lower than 1800 W(Only 220-240 Vac), otherwise overload protection may be triggered.



(Pic.1)

As shown in Pic.2 below, when the AC mains at the socket end is disconnected, the bypass output inside the product stops working, and the product switches to a bidirectional inverter circuit within 10 ms, and the circuit outputs supply power to the electrical appliance to ensure that the electrical appliance is uninterrupted and works normally during the process.

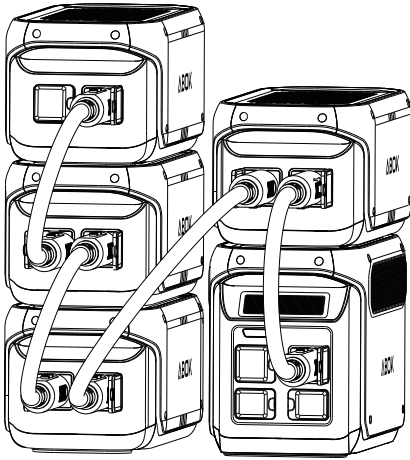


(Pic.2)

In UPS mode:

1. After the battery reaches 100 %, the system will maintain a full-charge state for up to 48 hours without additional charging.
2. After 48 hours, when the battery level naturally drops to approximately 90 % or below, the system will automatically resume charging until it is fully charged again.

# Battery Pack Connection Instructions



The portable power station can be connected to up to four extra battery packs via parallel cables, with a maximum total capacity of 5120 Wh. Please make the connection when both the portable power station and the extra battery packs are turned off.

After the connection is completed, an icon will appear on the screen showing the number of connected extra battery packs. Once connected successfully, the system can start charging or discharging.

During the charging and discharging process after connection, power will be distributed based on the remaining power of each device (portable power station and battery packs): During charging, devices with lower remaining power will have higher charging power; during discharging, devices with higher remaining power will have higher discharge power. If there is no external charging input, energy exchange may occur between the portable power station and the battery packs.

When the remaining power of all devices is close, the energy exchange process will stop.

## Precautions

- Please do not plug and unplug the connecting cable when the product is under use. Please note that Extra Battery Port A of the battery pack can only be connected to the Extra Battery Port of the power station or Extra Battery Port B of the upper-level battery pack.
- Please do not make the parallel connection ports short-circuited.

### Noted that:

The stacking method shown on this page is for reference only. Given that excessively high vertical stacking may easily lead to product falling risks, it is recommended to prioritize placing the product against the wall and adopt the combined stacking method of "horizontal stacking + vertical stacking" during operation.

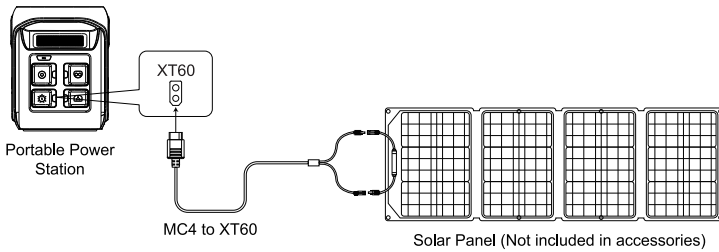
# Connection of Solar Panels

The power station can be connected to solar panels for charging.

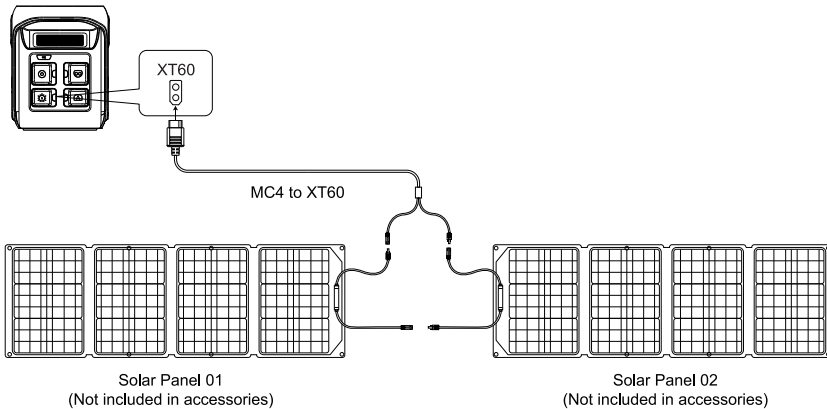
- ※ Solar panels' power depends on the weather and climate conditions.
- ※ If the total voltage of solar panels exceeds 60 V, this overvoltage will damage the equipment and will void the warranty.

## • Solar panel charging

### Scheme One



### Scheme Two

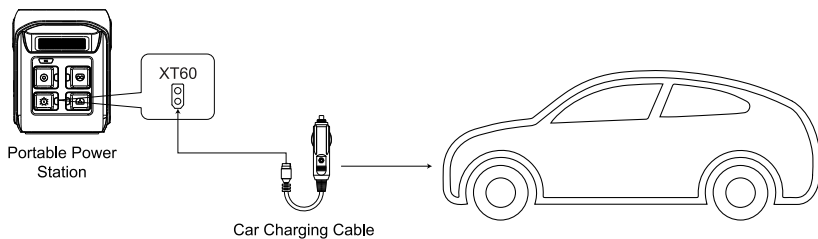


# Car/Vehicle Charging

The power station can be charged via the car's cigarette lighter using an ACC cable.

Turn on the power station, connect the ACC cable to the car's cigarette lighter and the XT60 interface on the side of the power station, start the car, and the screen will display the input power.

- ※ On-board charging should be carried out with the car engine turned on.  
If the engine is not turned on, the car's battery might run out.
- ※ Car charging is usually low power of 90-120 W, and the charging time will be long.  
If you need a quick charge, it is recommended to charge it by mains.



# Product Specifications

Product Name	Portable Power Station
Dimension	L × W × H = 388 × 218 × 275 mm
Weight	13.2 kg
Battery Capacity	1024 Wh
AC Input	1500 W
XT 60 PV Input (x2)	11.5-60 Vdc 500 W MAX
AC Output	1800 W
USB-A Output (x2)	Single-Port Mode: QC 3.0, 36 W MAX Dual-Port Mode: 5 V $\overline{=}$ 2.4 A, 12 W MAX
USB-C ①	PD 100 W
USB-C ②	PD 140 W
Cigarette Lighter Output	12 V $\overline{=}$ 10 A
Shutdown Current	<500 $\mu$ A
Discharging Temperature	-10 °C-40 °C
Environment Humidity	≤90% RH
Battery Cycle Times	>4000 times

# Battery Specifications

Cell type	LiFePO <sub>4</sub>
Rated voltage of cell	3.2 V
Rated capacity of cell	20 Ah
Rated voltage of battery pack	51.2 V
Voltage range of the battery pack	43.2-57.6 V
Rated capacity of battery pack	1024 Wh

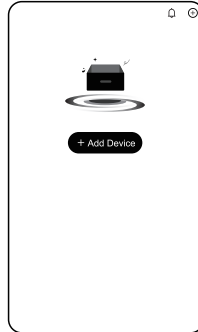
# Connecting to APP

## Step 01



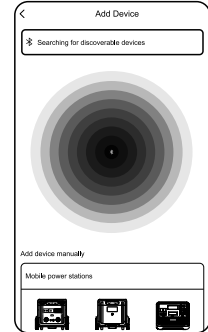
BrightEMS

## Step 02



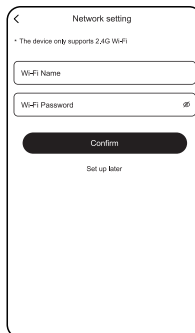
Add Device

## Step 03



Search By Bluetooth

## Connecting To Wi-Fi



Connect The Network

# 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 2-year warranty upon purchase, and an additional 3-year 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 there is 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, defective products will sometimes 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 a minimum distance of 20 cm between the radiator and your body.

