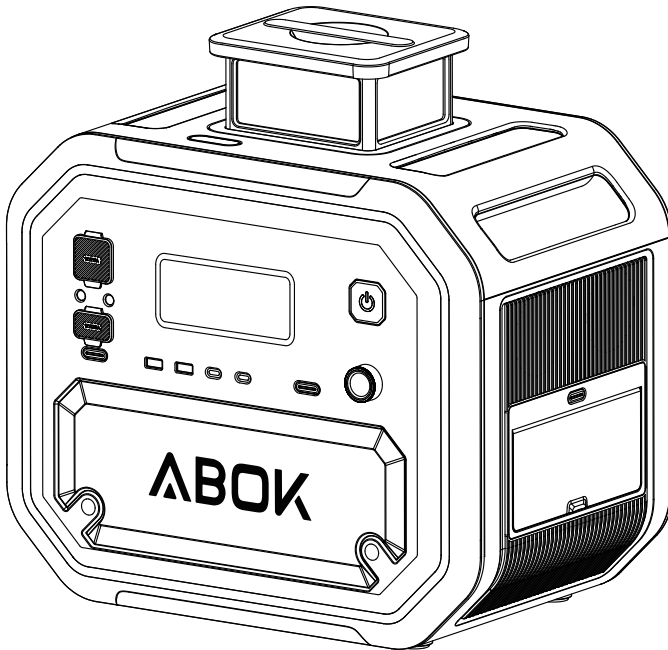


Portable Power Station

User Manual



Dear Customer, thank you very much for purchasing and experiencing the 2500 W/ 2800W portable power station, which delivers 2500 W at 100-120 V and 2800 W at 220-240 V. Before operating this product, please carefully read the user manual for proper operation.

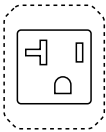
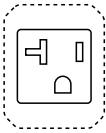
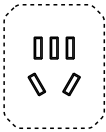
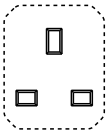
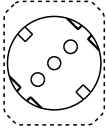
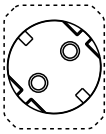
In accordance with the transportation regulations of international customs for battery products, the battery level of this product is less than 30 % when it is shipped from the factory. Please fully charge the product after unpacking it to start the 2500 W/2800 W experience tour.



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 Vac 50/60 Hz |
|  JP | 100 Vac 50/60 Hz |
|  CH | 220 Vac 50 Hz |
|  UK | 220-240 Vac 50/60 Hz |
|  EU | 220-240 Vac 50/60 Hz |
|  KR | 220 Vac 60 Hz |

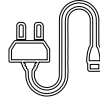
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Packing List



Portable Power Station



AC Charging Cable



User Manual



Cigarette Lighter Port to
XT90 Cable



MC4 to XT90 Cable

Product Introduction

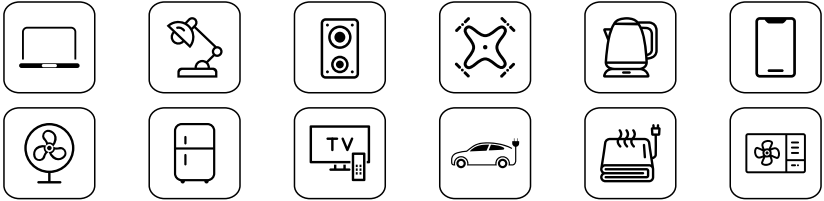
This product is a portable energy storage power supply with a large capacity of 2160 Wh, stable output of 2500 W/2800 W, and high-speed charging in 2 hours, using LiFePO₄ battery with high safety performance.

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.

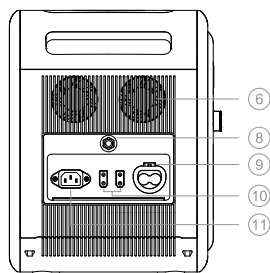
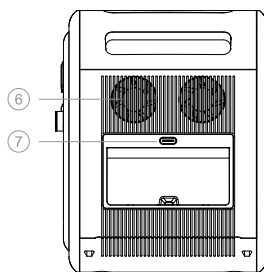
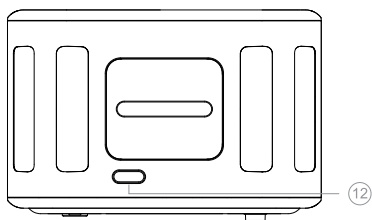
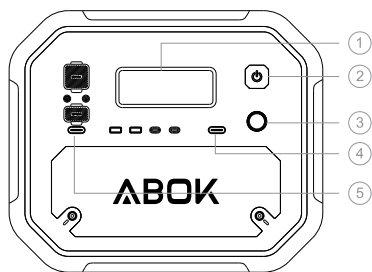
With 2500 W/2800 W high power and pure sine wave AC output, it is suitable for low-to-medium power devices like outdoor electric grills, camping air conditioners, portable induction cooktops, small household refrigerators, gaming laptops and professional cameras. It works for long camping trips, outdoor 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 1200 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. Power Button
- 3. AC Charging Power Selector
- 4. USB Switch
- 5. DC Switch
- 6. Air Intake/Outlet

- 7. AC Output Switch
- 8. Overload Protector
- 9. Battery Parallel Port
- 10. XT90 PV/CAR Input
- 11. AC Charging Port
- 12. Light Switch

① LCD Screen

Displays the product's battery level and status.

② Power Button

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



③ AC Charging Power Selector

When charging the product via AC mains, the input power can be adjusted to your preferred level. Rotate the knob clockwise to increase the input power and counter-clockwise to decrease it.

Note: Charging at a lower power setting is recommended to help extend the battery's lifespan.




④ USB Switch

Short-press the USB button to turn the USB output ports on or off.

| | |
|--|---|
|  USB-A ×2 QC 3.0 18 W |  USB-C ×2 PD 140 W |
|--|---|

⑤ DC Switch

Short-press the DC button to turn the DC output ports on or off.

| | | |
|---|--|---|
|  DC 5521 Output ×2 12 V= 3 A |  Cigarette Lighter Output ×1 12 V= 10 A |  XT60 Output ×1 12 V= 25 A |
|---|--|---|

⑥ Air Intake/Outlet

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

⑦ AC Output Switch

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

⑧ Overload Protector

To protect the device from damage caused by lightning strikes, power surges, or unstable voltage at the AC input, the Overload Protector (Safety Circuit Breaker) will automatically activate and disconnect the AC charging port.

Please follow the steps below to restore the AC charging function:

- 1) Power Off: Turn off the power button and disconnect all devices and cables from the ports.
- 2) Safety Check: After verifying that the device and all components are in normal condition, turn the power button back on.
- 3) Reset: Press the Overload Protector button, then reconnect the AC charging cable to resume charging.

⑨ 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.

⑩ XT90 PV/CAR Input

This interface supports solar panel input or car charger input. For details, please refer to "Connection of Solar Panels" on page 11 and "Car/Vehicle Charging" on page 12 of this manual.

⑪ AC Charging Port

When charging the product in this way, please observe the following precautions:

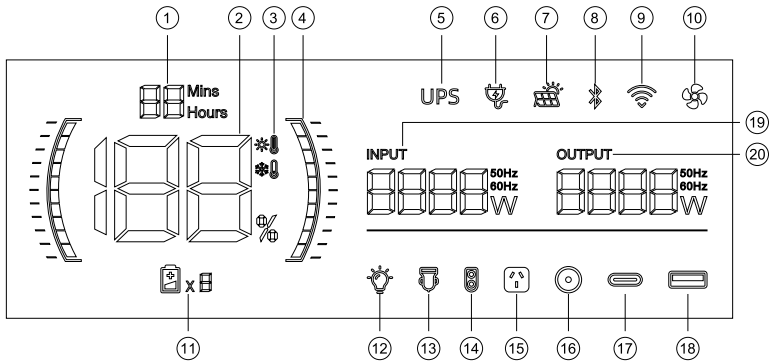
- ※ It is advisable to directly plug the product into a wall socket for charging. The use of extension cords or cable taps should be avoided, as this could potentially damage them or even cause a fire.
- ※ If an extension socket is used to charge this product, refrain from connecting any other electrical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

⑫ Light Switch

Short-press the Light button to cycle through the lighting modes in the following order: On → SOS → Strobe → Off.

While the LED is in any active mode, long-press the Light Button for ≥ 1 s to turn off the light directly.

Introduction of Display Interface



- | | |
|---------------------------------|-------------------------------------|
| 1. Remaining Usage Time | 11. Number of Extra Battery Packs |
| 2. Battery Level in Percentage | 12. LED Light Status |
| 3. High/low Temperature Warning | 13. Cigarette Lighter Output Status |
| 4. Battery Level Indicator | 14. XT60 Output Status |
| 5. UPS Status | 15. AC Output Status |
| 6. Mains Connection | 16. DC 5521 Output Status |
| 7. XT90 PV Input Status | 17. USB-C Output Status |
| 8. Bluetooth | 18. USB-A Output Status |
| 9. Wi-Fi | 19. Total Input Power |
| 10. Fan Status | 20. Total Output Power |





Screen Description

Battery Level Display: When the product is in the charging state, the battery progress bar cycle upwards from bottom to top, 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"> 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 outlet. |
|  <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> |

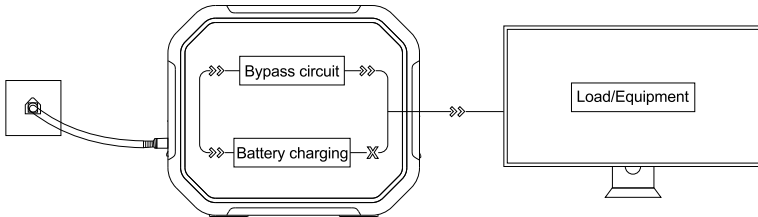
UPS Mode

● UPS Features

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

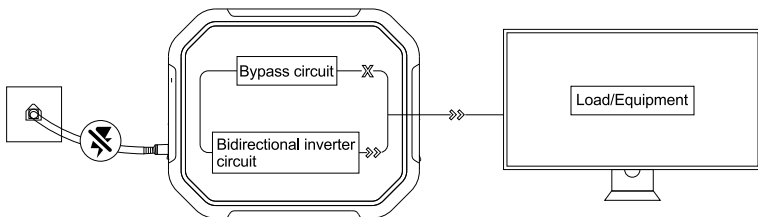
As shown in Pic. 1 below, when the product is connected between the wall socket and the electrical appliance, and the power supply and AC switch of the product are in the ON state, the product enters the UPS working mode. The AC mains in the socket supplies power to the electrical appliance through the 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 100-110 Vac),otherwise overload protection may be triggered.
- 2.The rated power of the electrical appliance must be lower than 1800 W(only 120-127 Vac),otherwise overload protection may be triggered.
- 3.The rated power of the electrical appliance must be lower than 2200 W(only 200-240 Vac),otherwise overload protection may be triggered.



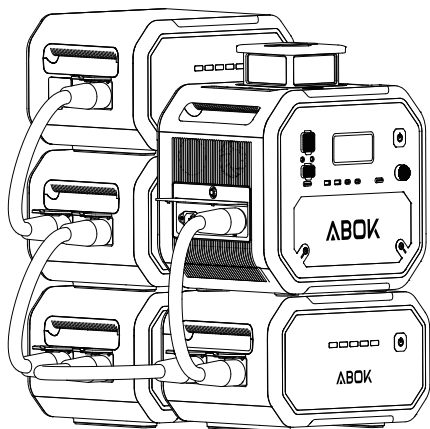
(Pic. 1)

As shown in Pic. 2 below, when the AC mains at the socket end is disconnected, the bypass output inside the product stops working, 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)

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 10800 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

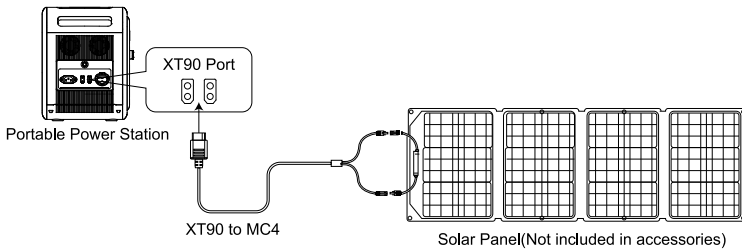
The power station can be connected to solar panels for charging.

- ※ Solar panels' power depends on the weather and climate conditions.
- ※ If the total voltage of solar panels exceeds 55 V, this overvoltage will damage the equipment and will void the warranty.

• Solar panel charging

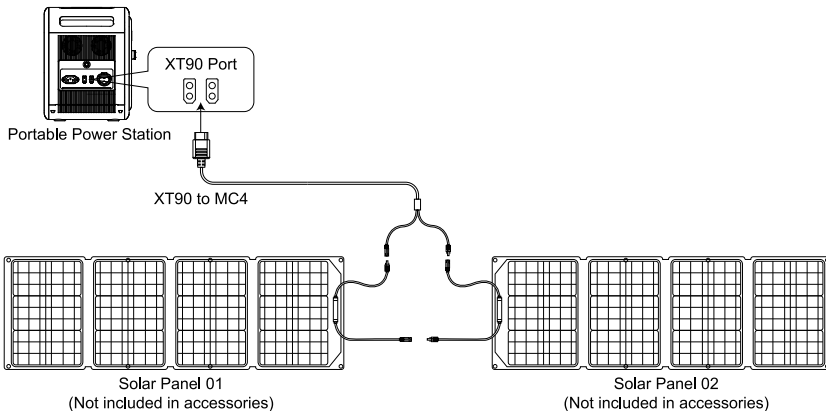
Scheme One

Portable Power Station Charging Area



Scheme Two

Portable Power Station Charging Area



Note for Scheme Two

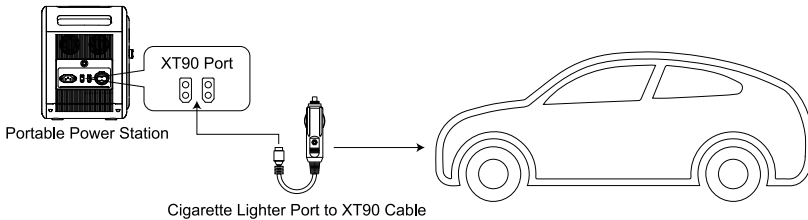
When connecting solar panels in parallel as shown in Scheme Two, use panels with the same electrical specifications (Voltage, Current, and Power). The short-circuit current (I_{sc}) of each panel must not exceed 12.5 A. Otherwise, the unit may trigger overcurrent protection and stop PV charging.

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 XT90 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 = 402 × 268 × 336 mm |
| Weight | 21.2 kg |
| Battery Capacity | 2160 Wh |
| AC Charging | 100-120 Vac 1500 W MAX; 220-240 Vac 1800 W MAX |
| XT90 PV Input (×2) | 11.5-55 Vdc 25 A MAX 600 W MAX |
| AC Output | 100-120 Vac 2500 W, 50/60 Hz; 220-240 Vac 2800 W, 50/60 Hz |
| USB-A Output (x2) | QC 3.0 18 W MAX |
| USB-C Output (×2) | PD 140 W MAX |
| DC 5521 Output (x2) | 12 V $\overline{=}$ 3 A |
| XT60 Output | 12 V $\overline{=}$ 25 A |
| Cigarette Lighter Output | 12 V $\overline{=}$ 10 A |
| Shutdown Current | < 500 μ A |
| Discharging Temperature | -10 °C-40 °C |
| Charging Temperature | 0 °C-40 °C |
| Environment Humidity | ≤ 90% RH |
| Battery Cycle Times | > 4000 times |

Battery Specifications

| | |
|-----------------------------------|---------------------|
| Cell type | LiFePO ₄ |
| Rated voltage of cell | 3.2 Vdc |
| Rated capacity of cell | 15 Ah |
| Rated voltage of battery pack | 48 Vdc |
| Voltage range of the battery pack | 40.5-54 Vdc |
| Rated capacity of battery pack | 2160 Wh |

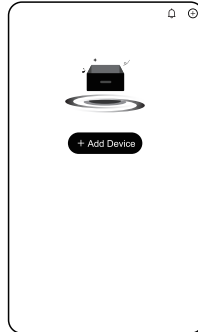
Connecting to APP

Step 01



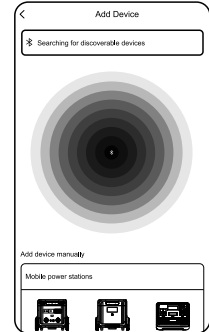
BrightEMS

Step 02



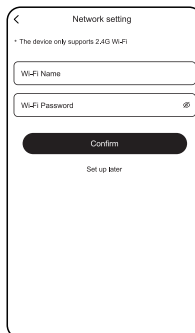
Add Device

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 the our official website for the latest product information.