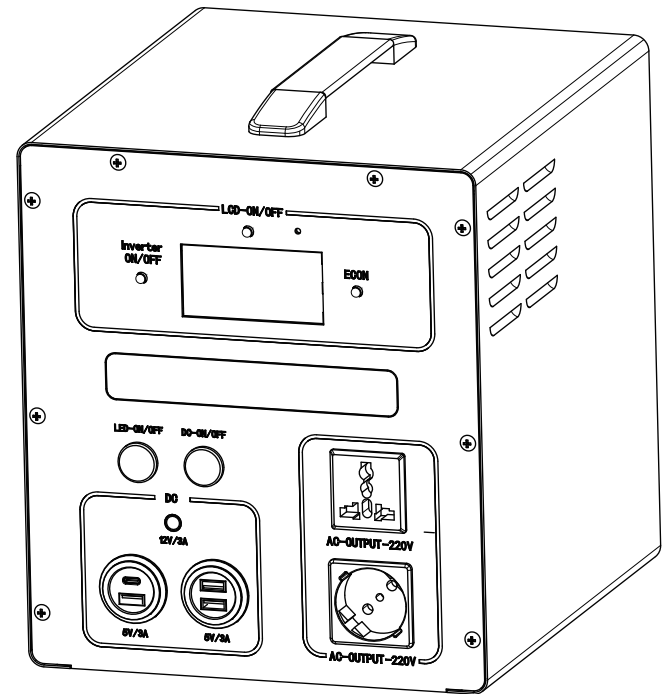


2000Wh Portable Power Station



User Manual

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1. Specifications

Basic Specifications

| | |
|------------------|------------------------------|
| Net Weight | Approx. 20kg |
| Dimensions | 280x250x280mm |
| Battery Capacity | 2000Wh, 6.4V \approx 314Ah |

Output Specifications

| | |
|------------------------------|--------------------------------------------------------------------|
| AC output x2 (inverter mode) | Pure sine wave, 1000W total (1300W peak), 220-240V~, 50Hz/60Hz, 5A |
| AC Output (Bypass Mode) | 220-240V~, 50Hz/60Hz, Max. 1000W, 5A |

| | |
|-------|----------------------------|
| DC | 12V \approx 3A, Max. 36W |
| USB*3 | 5V \approx 3A, Max. 15W |
| USB-C | 5V \approx 3A, Max. 15W |

* Inverter Mode: AC output is powered by the battery, not the grid * Bypass Mode: AC output is powered by the grid, not the battery.

Input Specifications

| | |
|----------------------|---------------------------------|
| AC Input Power | Max. 1400W, 6A |
| AC Input Voltage | 220-240V, 50Hz/60Hz |
| Solar Charging Input | 12-48V \approx 10A, Max. 450W |

Battery Specifications *Test conditions: 95% DOD, 0.5C charge & 1.0C discharge at +25 \pm 3°C

| | |
|------------|------------------------------------------------------------------------------------------------------|
| Cell Type | LiFePO4 (Lithium Iron Phosphate) |
| Cycle Life | 6000 cycles |
| Protection | High-temperature, low-temperature, over-discharge, overcharge, overload, short-circuit, over-current |

Operating Temperature *Charging/discharging depends on the actual battery temperature

| | |
|-------------------------|------------------------------------|
| Optimal Operating Temp. | 20°C~30°C |
| Discharge Temp. | -20°C~40°C |
| Charge Temp. | 0°C~40°C |
| Storage Temp. | -20°C~40°C (20°C~30°C recommended) |

2. Safety Guidelines

2.1 Warnings

1. Do not place the product near heat sources (e.g., open flames or heaters) during operation.
2. Avoid contact with liquids. Do not immerse the product in water or use it in rainy/humid conditions.
3. Do not use in environments with strong static electricity or magnetic fields.
4. Never disassemble or puncture the product with sharp objects.
5. Avoid short-circuiting the product with wires or metal objects.
6. Do not step on, sit on, or climb the product.
7. Use only official accessories. Contact authorized dealers for replacements.
8. Adhere to the specified operating temperatures. Extreme temperatures may cause fire, explosion, or performance degradation.
9. Do not stack heavy objects on the product.
10. Ensure proper ventilation. Avoid blocking fans or using in dusty areas.
11. Protect from impacts, drops, or vibrations. Secure the product during transport.
12. If submerged, place the product in a safe, open area to dry. Do not reuse. For fires, use water, sand, fire blankets, dry powder, or CO₂ extinguishers.
13. Clean ports with a dry cloth.
14. Place the product on a stable surface. If severely damaged, power off and dispose of properly.
15. Keep away from children and pets.
16. Store in a dry, ventilated area.

17. In humid environments (e.g., beaches), use moisture-proof bags. Do not use if water enters the product.

18. This product is not recommended for powering medical emergency equipment related to personal safety, including but not limited to medical-grade ventilators (hospital version CPAP: Continuous Positive Airway Pressure), artificial lungs (ECMO, Extracorporeal Membrane Oxygenation), etc. In addition, home ventilators (home version CPAP) are used in home environments and can be used normally. Generally, continuous professional monitoring is not required. Please follow the doctor's advice and consult the manufacturer about the restrictions on the use of related equipment. If used for general medical equipment, please pay attention to the power status to ensure that the power is not exhausted.

19. Power products will inevitably generate electromagnetic fields when in use, which may affect the normal operation of implanted medical devices or personal medical devices, such as pacemakers, cochlear implants, hearing aids, defibrillators, etc. If these medical devices are used, please consult their manufacturers for the restrictions on the use of the relevant equipment to ensure the normal use of this product.

20. When the power supply is connected to the refrigerator load in normal mode, the power fluctuation characteristics of the refrigerator may cause the power supply to automatically shut down. It is recommended that for refrigerators storing medicines, vaccines or other high-value items, when connecting power products, please press and hold the LED light button to turn on the "never shut down" state to ensure continuous power supply. At the same time, users should pay attention to the power failure state of the power supply.

21. Do not place other objects on the product when it is being pushed or pulled.

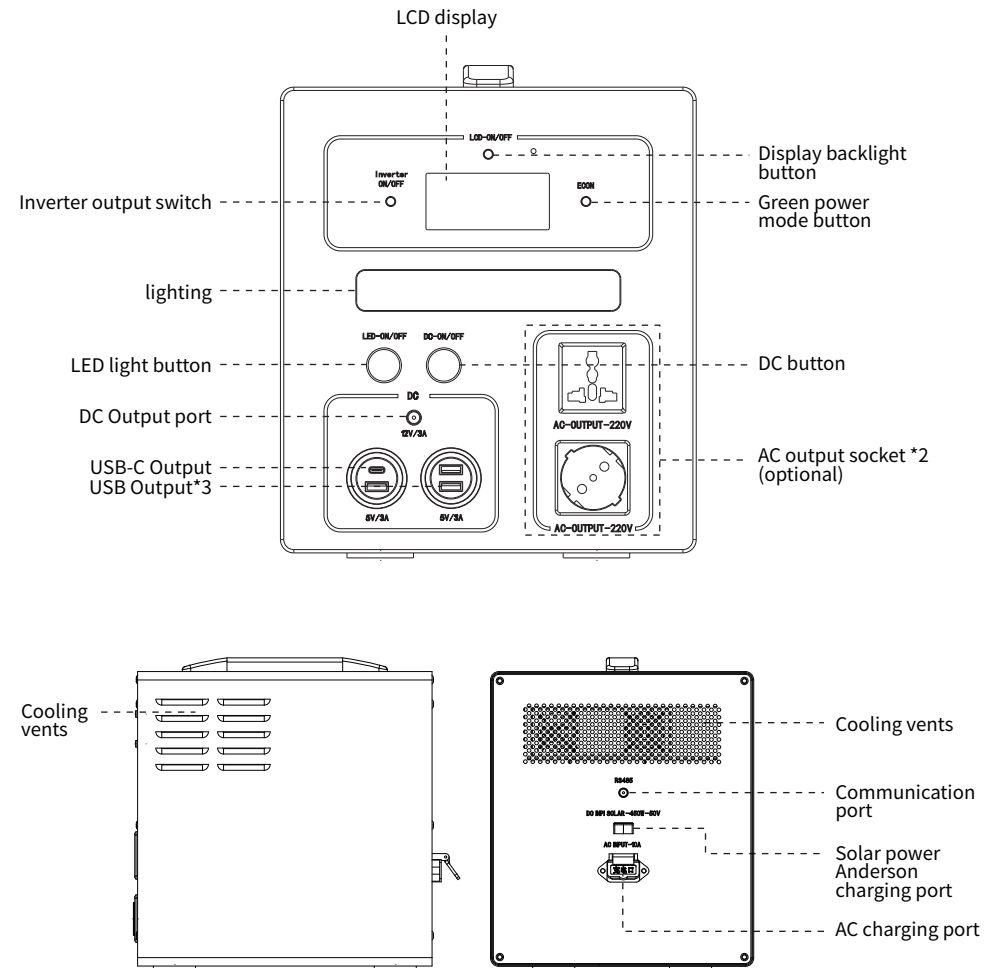
22. WARNING: Operation of this equipment in a domestic environment may cause radio interference.

2.2 Disposal

1. If conditions permit, please make sure to completely discharge the battery of this product before placing the product in the designated battery recycling bin. This product contains batteries, which are hazardous chemicals and must not be disposed of in ordinary trash bins. For details, please follow local laws and regulations on battery recycling and disposal.
2. If the battery cannot be completely discharged due to a fault in the product itself, please do not discard the battery directly into the battery recycling box. Contact a professional battery recycling company for further processing.
3. The battery will not start after being over-discharged, please dispose of it as discarded.

3. Beginners Guide

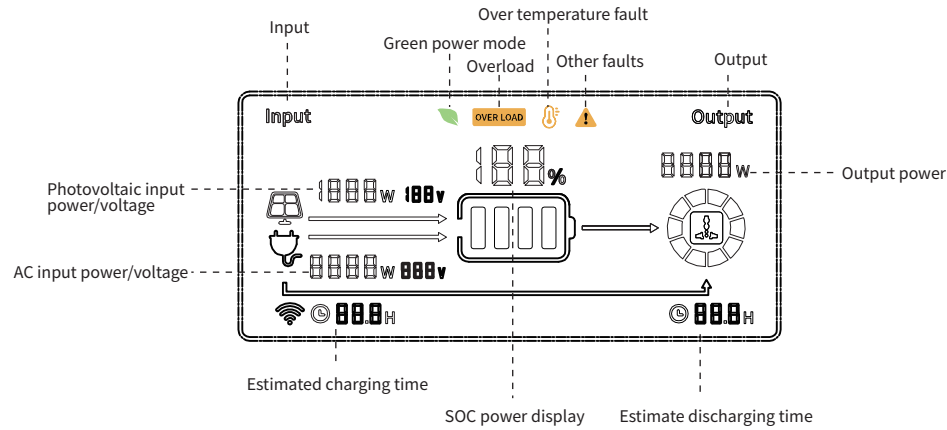
3.1 Product Appearance Introduction



Button Description:

1. Press the inverter output switch for 3 seconds to turn on the AC output, and press it again for 3 seconds to turn off the AC output.
2. Short press the display backlight button to turn on and off the display backlight.
3. Short press the green power mode button to enter and exit the green power mode. There is an icon on the display screen, which can be saved when power is off.
4. When the system is turned off, there is no AC input, and there is a photovoltaic input state, press the three buttons at the same time for 3 seconds, and the system will immediately sleep.

3.2 Display Introduction

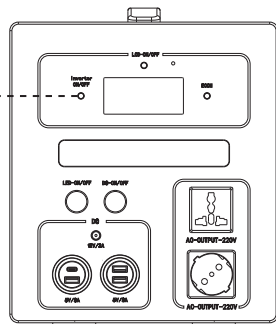


Battery power indication

When this product is in charging state, the SOC power display icon will flash.

3.3 Product Usage

Short press to power on



Power on, power off and display lighting

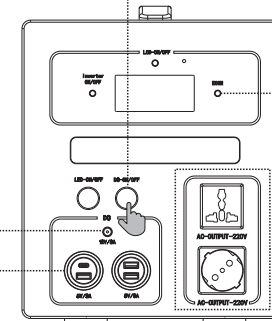
· Short press the inverter switch to turn on the power. The display will light up after turning on, Short press the LCD switch again to turn off the display.

· If there is no operation on this product for 30 minutes, the system will automatically shut down, When the product is plugged in or out of the AC power or PV or a key is operated, the display will automatically light up, To turn the display on or off, briefly press the LCD switch.

- After the inverter is turned on, short press the DC output power switch to turn on the DC output port.
- Short press the DC output power switch again to turn it off.

Using 12V DC Output

Short press the DC output power switch



Short press ECON to turn on the green power switch

Using USB Output

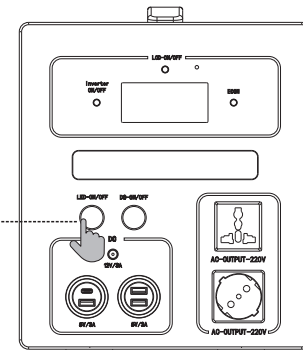
Using AC output

Note: when there is no AC input, press and hold the inverter switch for 3s to turn on the inverter; When there is AC output, press and hold the inverter switch for 3s to shut down.

Use of LED light

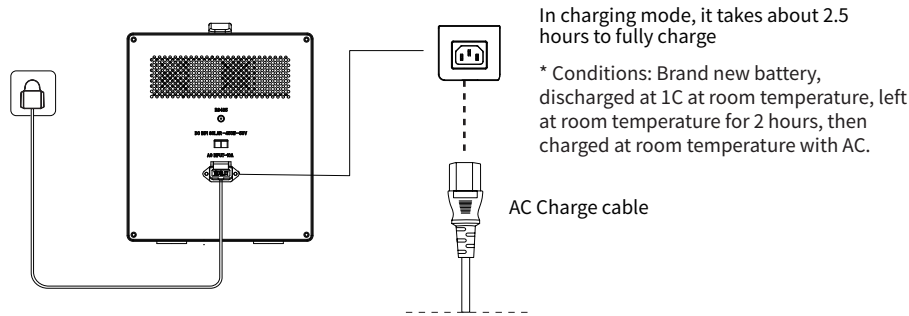
Short press the LED light button to turn the light on or off.

Led lighting button



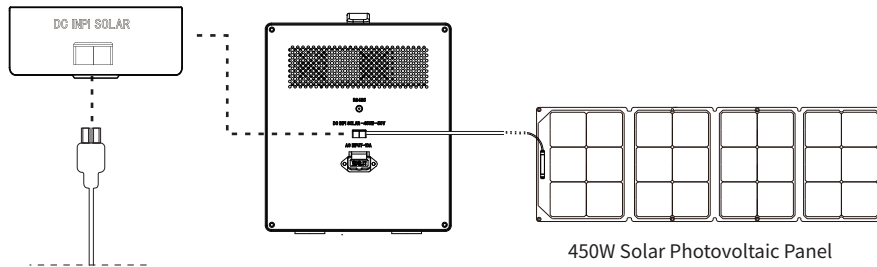
3.4 AC Charging

When this product is turned on, the charging mode is enabled by default.



(When charging with AC, please use the official standard AC charging cable. The AC charging cable plug must be directly connected to a wall plug that supports a current of more than 10A. The company does not assume any responsibility for damage caused by using other unofficial charging cables or not operating in accordance with the specifications.)

3.5 Solar charging



Users can use solar panels to charge this product as shown in the figure

*Photovoltaic charging cable

When using our company's solar panel to charge this product, please connect it according to the specifications in the user manual.

Before connecting the solar panel, please confirm whether the output voltage specification of the solar panel is within the product specification range to avoid damage to this product.

3.6 Green Power Mode

Use the button to select whether to enter the green power mode (through the button setting, the display screen can light up the green power mode icon, and the green power mode can support power-off saving)

1. In non-green power mode (when AC output is turned on)

When there is AC power, the output is bypassed and the battery is charged at the same time; when there is no AC power, the output is inverted.

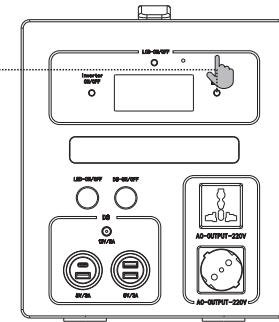
2. In green power mode (when AC output is turned on)

1) When "PV input and SOC \geq 30%" is detected at the first power-on, inverter output is performed regardless of whether there is AC power.

2) When "PV input and SOC \geq 30%" is not met, the inverter is immediately exited and switched to bypass output.

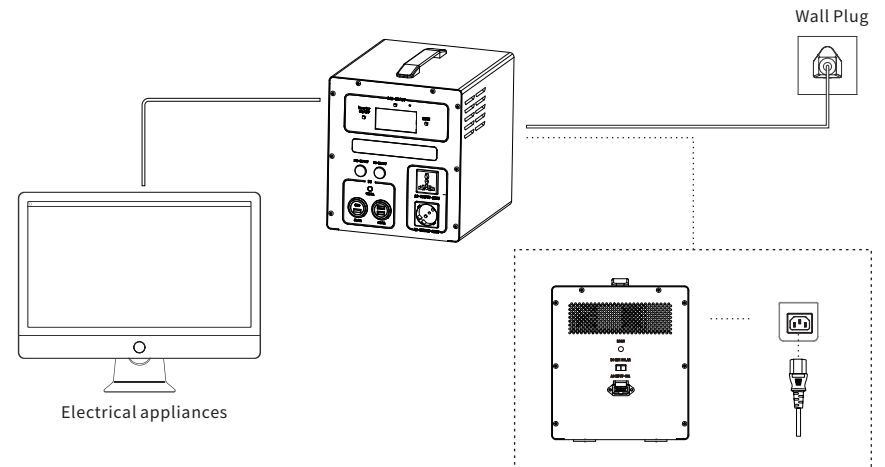
3) When "PV input and SOC \geq 95%" is detected again, the inverter output can be restored.

Short press ECON to turn on the green power switch



3.7 EPS Function

This product supports EPS (Emergency Power Backup) function. When you connect the power grid and the AC input port of this product through the AC charging cable, the AC output port of this product can be used to work. At this time, it is bypass mode (AC power comes from the power grid, not the battery); when the power grid suddenly loses power, this product can automatically switch to battery power supply mode within 10ms. At this time, it is inverter mode (AC power comes from the battery, not the power grid). This function does not support 0ms switching. Please do not connect it to devices that require high uninterrupted power supply requirements, such as data servers and workstations, or test it multiple times to confirm whether it is compatible before using it. It is recommended to use only one device during use, and do not use multiple devices at the same time to avoid triggering overload protection of this product. If the device cannot operate normally or data is lost due to failure to follow the instructions, our company will not bear the corresponding responsibility.



4. FAQs

1. What type of battery does the product use?

This product uses high quality lithium iron phosphate batteries (LiFePO4).

2. What devices can be connected to the AC output port of the product?

The AC output port of the product has a high rated power and maximum power, which can power low-power household devices. We recommend that you confirm the power of the device before use and ensure that the total power of all load devices is lower than the rated power.

3. How do I know how long the product can supply power?

The LCD screen of this product will show the remaining power. For devices with normal power consumption, this time can be used to estimate the remaining power.

4. How to tell if the product is charging?

While charging, the LCD screen will show the remaining charging time, the battery level display digits will flash, and the input power will be displayed.

5. How to clean this product?

Please use a dry, soft, clean cloth or paper towel to wipe the product.

6. How to store the product?

When storing, please turn off the product first, and then store it in a dry, ventilated place at room temperature. Do not place the product near water. When storing for a long time, it is recommended to discharge the battery to 0%, then charge to 100%, and then discharge to 48%-52% every three months to extend the service life of the product.

7. Can I take this product on board an airplane?

No.

5. Troubleshooting

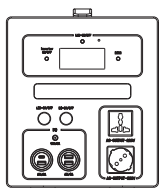
| Fault phenomenon | Cause Analysis | Solution |
|------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------|
| RS485 data abnormality | The communication line is not fully connected | Please check the RS485 wiring harness |
| | The output port at the other end of the communication is abnormal | Check whether the other output port of the communication is correct. |
| | BMS damage | Please contact after-sales service for repair |

| Fault phenomenon | Cause Analysis | Solution |
|---------------------------|-------------------------------------|---------------------------------------------------------------------------------|
| Cannot charge | Is the cable connection loose? | Please check the line |
| | Single battery voltage is too high | Please check the warning information and contact after-sales service department |
| | Total voltage is too high | Please check the warning information and turn off the charging switch in time |
| | Temperature is too low | Please check the warning information and contact after-sales service department |
| | Temperature is too high | Please check the warning information and contact after-sales service department |
| | Communication lost | Please check the RS485 communication harness |
| | Charging circuit over-current | Please check the warning information and contact after-sales service department |
| Cannot discharge | The cable is not connected securely | Please check the line |
| | The battery voltage is too low | Please check the warning information and contact after-sales service department |
| | Total voltage is too low | Please check the warning information and recharge the battery in time. |
| | Temperature is too high | Please check the warning information and contact after-sales service department |
| | Discharge circuit over current | Please check the warning information and contact after-sales service department |
| Discharge capacity is low | Low battery during discharge | Please check whether the battery is fully charged during discharge. |
| | Battery failure | Please check the warning information and contact after-sales service department |

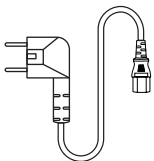
If an alarm appears during use of this product, and the alarm icon does not disappear after restarting the machine, please stop using it immediately (do not try to charge or discharge it).

If the above information cannot solve your problem, please send the fault information and related data to the professional technicians of the after-sales service department in a timely manner.

6. Package Contents



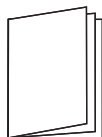
2000Wh mobile energy storage



AC charging cable



Photovoltaic charging cable



User Manual

7. Maintenance & Care

- It is recommended to use or store this product in an environment of 20°C to 30°C, away from water, heat sources, and other metal objects.
- If long-term storage is required, please charge and discharge this product once every 3 months. (That is, first discharge this product to 0%, then charge to 100%, and then discharge to 48%-52%.)
- For safety reasons, please do not store this product for a long time in an environment above 45°C or below -10°C.
- If the battery level of this product is less than 1% after use, please charge it to 60% before storing it. If it is left idle for a long time when the battery level is seriously low, it will cause irreversible damage to the battery cell and shorten the service life of this product.
- If the battery level of this product is seriously low and it is left idle for too long, the product will enter deep sleep mode and must be charged before it can be used again.
- After charging or discharging the monomer, it must be left to stand for more than 30 minutes before use.

8. Disclaimer

- The product has a built-in battery management system with protections against overcharge, over discharge, over current, short circuit, high and low temperature, and abnormal communication. Protection may occur during the use of this product, resulting in output interruption. The company is not responsible for any indirect losses caused by unexpected power outages when supplying power to special equipment, such as (medical equipment, servers); the company is not responsible for any accidents caused by illegal use, self-disassembly, or man-made damage.
- Before use, please read the user manual of this product to ensure that you can use it correctly after fully understanding it. After reading, please keep the user manual properly for future reference. If you do not operate this product correctly, you may cause serious harm to yourself or others, or cause product damage and property loss. Once you use this product, it is deemed that you have understood, recognized and accepted all the terms and contents of this document. The user promises to be responsible for his or her own behavior and all the consequences arising therefrom. The company does not bear any losses caused by the user's failure to use the product in accordance with the "User Manual".
- In compliance with laws and regulations, our company reserves the final right of interpretation of this document and all related documents of this product. If there is any update, revision or termination, no further notice will be given. Please visit the official website for the latest product information.