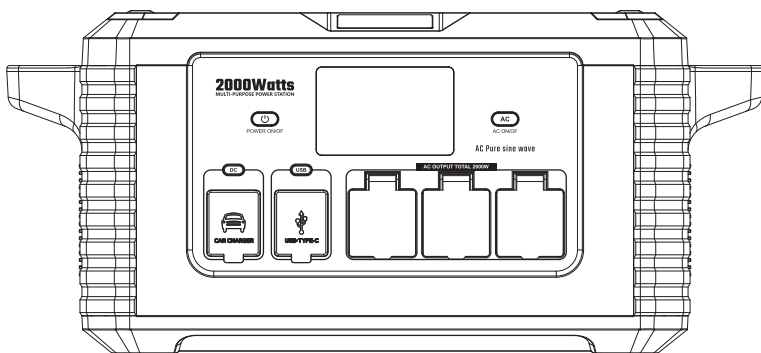




PORTABLE POWER STATION OFF GRID POWER SUPPLY



Thank you for purchasing MP2000 portable power station

To ensure your personal safety, property safety and good user experience,
Please read this manual carefully before operation and keep it for subsequent reference.

Charging instructions!

Before using MP2000, Please plug it into a suitable power outlet
until it is fully charged. Then you can use it to start your exciting journey.



Safety instructions

Please read the following instructions to ensure safety before using. Improper use may cause fire, property damage or personal injury.

Instructions for use:

- 1) The charging power is up to 1200W. Please use the AC charging cable included in the package for fast charging. Do not use any improper power cord. Plug directly into an AC wall outlet and make sure that the wall output current is more than 15A. We takes no responsibilities for any consequences caused by failures to follow instructions, including but not limited to charging with other AC charging cables.
- 2) Do not place the device near or in a fire source to avoid heating. Keep away from direct sunlight.
- 3) Do not charge or use or store in the bathroom or rain or wet areas.
- 4) Do not put the device in water. If the battery in the unit comes into contact with water, it may cause a chemical reaction of the battery. It may cause the battery to catch fire or explode. Do not use swollen, leaking or damaged batteries. If your battery is abnormal, please contact our technical support staff.
- 5) Do not use the battery in a strong static or electromagnetic environment. Otherwise, the battery control board may malfunction during use, causing serious accidents.
- 6) Never disassemble or pierce the product in any way. Otherwise, it may leak, catch fire or explode.
- 7) Avoid collision. If the product involves a serious collision, please do not use the product.
- 8) If the product falls into the water during use, take it out immediately and put it in a safe area. Keep a safe distance until it is completely dry. Do not use it again, and dispose of it correctly as described in the battery disposal section below.
- 9) If the product catches fire, it is recommended to use fire extinguishing equipment in the following order: water or water mist, sand, fire blanket, dry powder, carbon dioxide fire extinguisher.
- 10) It is not allowed to insert pins, wires or other metal parts into equipment boxes, sockets or control boards. Metal parts may cause the product to short-circuit. Avoid collisions.
- 11) Do not place heavy objects on the machine.
- 12) Please use and store the device in a clean and dry environment. Do not use and store in a dusty and humid environment. If the surface of the plug or outlet is dirty, clean it with a dry cloth, otherwise, it will cause abnormal contact and cause energy loss or failure to charge.
- 13) Do not put the machine in a microwave oven or pressurized container.



Precautions for product charging

- 1) Do not charge the device with an electricity power system other than 95-130V.
- 2) When using solar photovoltaic modules for charging, the open circuit voltage should not exceed 75V.
- 3) The device must be charged according to the original charging cable required by the specification. We are not responsible for any damage caused by charging with other brands of charging cables.
- 4) When charging, please place the product on the ground without flammable or combustible materials around. To prevent accidents, do not leave the machine unattended during the charging process.
- 5) Do not charge the product immediately after a longtime heavy load discharge, because the temperature of the product may be too high. Do not charge the product before it has cooled to room temperature.
- 6) The charging temperature requires charging the device at an ambient temperature of 0-40°C (32-104°F).



Product storage and transportation

- 1) Please keep the product away from children's reach. If a child accidentally swallows certain parts, seek medical attention immediately.
- 2) If a warning of insufficient battery power appears, please charge the battery before storing.
- 3) Please store the product in a dry environment. Do not place the product where it may come into contact with water.
- 4) Please ensure that no small metal objects fall on the product or around the product storage.
- 5) The power of the battery cannot be higher than 30% of the product when it is transported by air.

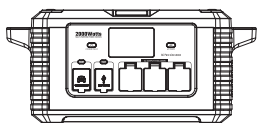


Product maintenance

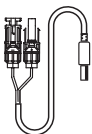
- 1) Do not store the product in an environment below -15°C or above 45°C.
- 2) If the battery is not used for a long time, the battery life may be shortened.
- 3) Fully charge and discharge at least once every 3 months to ensure battery life.

What 's in the box?

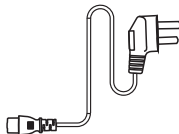
MP2000/ MC4 to Anderson cable /AC charging cable / Car charger to Anderson cable /User manual.



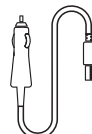
MP2000



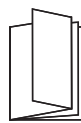
MC4-Anderson
connector cable



AC wall plug
power cable



12V Car
Anderson cable



User Manual

It is recommended to use 120W /200W/400W/600W solar panels.

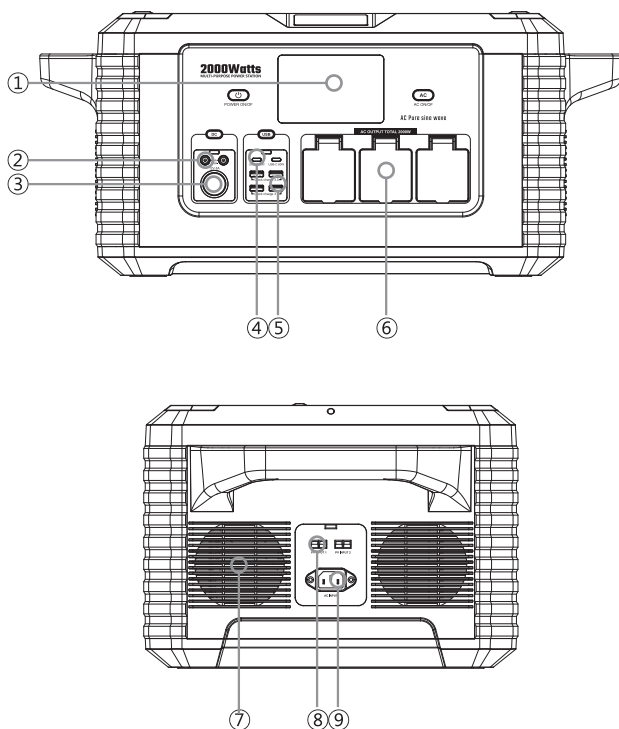
MP2000

Mp2000 is a very high quality portable power station with exchangeable battery pack. It is very convenient for emergency off-grid demand such as sudden power failure, snowstorm or hurricane, outdoor tourism, outdoor operation, RV power supply, etc. There is perfect performance with great power output up to 2000W, fast charging ,great capacity and long cycle life.

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Product function description

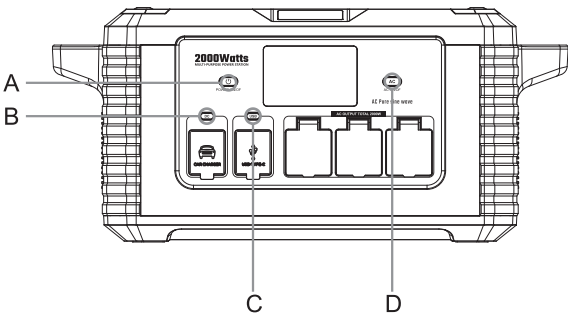


1. LCD screen
2. DC5525*2 12/4A output ports
3. 12V/8A cigarette lighter port
4. USB-C *2 output ports
5. USB-A *4 output ports
6. AC output * 3 ports
7. Cooling fan
8. Photovoltaic input *2 ports
9. AC input port

Reminder:

If you find that there is not enough power inside the battery, please charge it before use.

Button function



- A: Power switch button
- B: DC output switch button
- C: USB output switch button
- D: AC output switch button

Button A: Main power switch. Press button A to turn on or turn off the equipment.

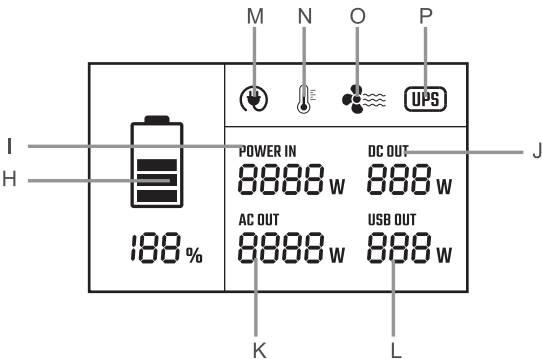
Button B: DC output switch. Before pressing button B to turn on, please make sure to activate the "Power Switch" button; when not in use, press button B to turn off the output.

Button C: USB output switch. Before pressing the C button to turn on, please make sure to activate the "Power Switch" button, and press this to turn off the output when not in use.

Note: The USB-C cables of different devices need different approvals for the corresponding protocols. If the USB-C port does not work, please try to use the AC adapter for charging.

Button D: AC output switch. Before pressing the D button to turn it on, please make sure to activate the "Power Switch" button; and press the D button to turn off the output when not in use.

LCD display information



- H: Battery level indicator
- I: Input status
- J: DC outputs status
- K: AC outputs status
- L: USB outputs status
- M: Charging input display status
- N: Temperature status status
- O: Fan start cooling status
- P: UPS start status

Battery level indicator: The battery power is provided by the capacity percentage of the battery. The number and percentage of the bar graph corresponding to charging are displayed. The battery level segment corresponds to the current state of charge, the empty segment: 0-5%, stage 1: 6-20%, stage 2: 21-40%, stage 3: 41-60%, stage 4: 61-80%, when the charge level exceeds 81%, stage 5 all light up. Provide for users with real-time monitoring data in a timely manner. It is recommended that the device be fully charged for first time using. The higher the battery level indicator shows, the more accurate the data indicator will be. It is recommended to charge the battery in time when the battery is lower than 20%, which can extend the battery life.

Please note that when you plug in the power source for the first time, whether it is solar panel or wall charging, it may take a minute for the device to check and adjust its charging circuit before it starts charging from the power source.

Input status: The equipment can provide input energy in watts when working or fault information codes when error happened.

DC output status: It will display the output power of DC port when working or fault information codes when error happened.

AC output status: It will display the output power of AC port when working or fault information codes when error happened.

Note that this value can be adjusted multiple times as the energy consumption of the connected device changes. This is evident when the port is initially activated using a connected device.

USB output status: The display will provide the output power of the USB port when working or fault information codes when error happened.

AC charging cable insertion status: When the AC charging cable is inserted, the display screen displays the identification.

Temperature status: When the inverter or the batteries is overheated, the display screen displays this identification.

Fan start cooling status: When the fan is running, the display screen displays this identification.

UPS working status: When the unit is connected to the wall outlet and the electrical appliances are operated on the output outlets, the display shows the working state of UPS.



List of fault codes:

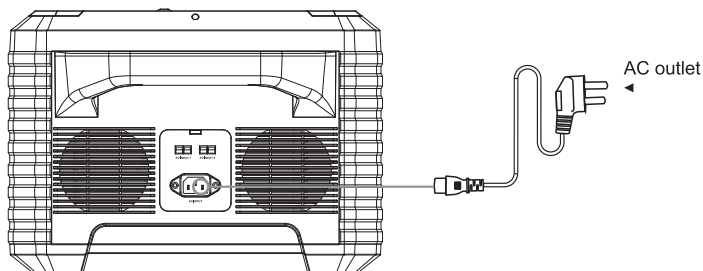
Code displayed on the LCD	Significance	Solutions
E01	Battery overvoltage	Please disconnect the charging cable and stop charging
E02	Battery undervoltage	Please disconnect the output and charge the device
E03	Inverter overheating	Please disconnect the output and wait 1-2 hours before operation
E04	Abnormal input voltage	Please disconnect the AC charging cable or Solar PV input cable
E05	Abnormal grid frequency	Please disconnect the charging cable
E06	Abnormal output voltage	Please disconnect the output and check the electric appliance
E07	AC output short circuit	Please disconnect the output and check the electric appliance
E08	AC output overload	Please disconnect the output
E09	Inverter fault	Please contact customer service center
E16	AC charging overload	Please disconnect the output

NOTE: When the DC load is abnormal, the system will automatically turn off the output and will not show the fault code. Please disconnect the output and check the electrical equipment then try again. When the USB load is abnormal, the corresponding output power will be zero and the system will not show the fault code. Please disconnect the outputs and check the electrical equipment, then try again.

How to charge MP2000

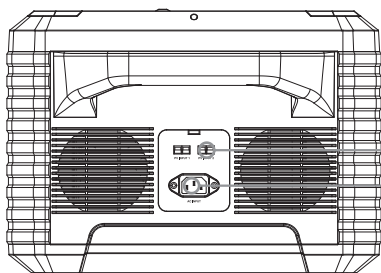
AC charging

Use the AC charging cable we provided to charge the device. It takes 1.8 to 2.5 hours to full capacity. When the LCD shows that the battery power is 100% it means that the battery will be fully charged and the input power will turn off after several minutes.



⚠ Note: When the device is charging, the power of the electrical appliances connected to the device through the AC output port should not exceed 450W. If the AC output power is greater than 450W during charging, the charging current will decrease. When the device is charging, if the AC input current is more than 15A, the device will be overloaded, a fault code "E16" will be showed on the LCD, the output will be shut off after 10 seconds. Please disconnect the output load then press the AC switch once to clear it.

Re-charging time



From solar charger
600W 4-5 hours
Depending on solar conditions

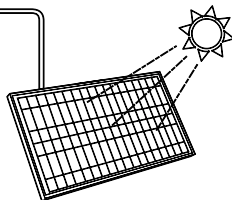
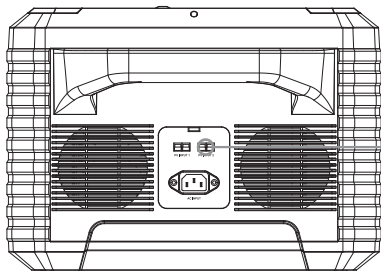


From wall outlet **1.8-2.5 hours**

Solar panel charging

The total open circuit voltage of solar modules after series-parallel connection should not exceed 75V!

Please place as many solar panels in direct sunlight as possible. Support 12-75V, 60W/80W/100W/120W/150W/600W solar panel charging, the charging time is determined by the sunlight intensity.



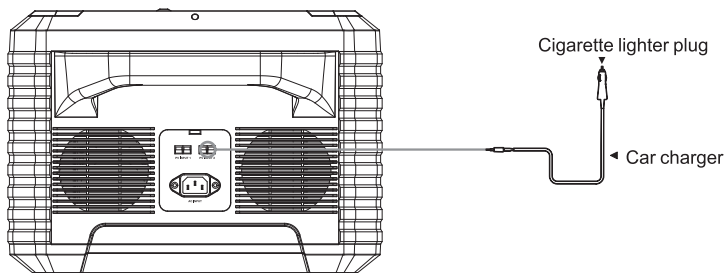
(Not included)

⚠ Caution:

- 1) Do not plug in power supplies with different voltages at the two PV input ports at the same time!
- 2) It allows that two solar PV panels are paralleled to the two PV input ports, when paralleled, please confirm the same voltage specification.

12V car charger

Use the car charger we provided to charge. It takes 32 to 34 hours to fully charge. When the LCD shows that the battery power is 100%, it means that the battery is fully charged.



⚠Caution: Do not charge the product with solar PV input and car port at the same time!

What it powers



Laptops (41.4Wh)
Around
43 Recharges



32" TV(60W)
Around
30 hours



CPAP without heated
humidifier (15W)
120 hours



Gopro (5.9Wh)
Around
307 Recharges



Floodlight(40W)
Around
45 hours



Mini Fridge(40W)
Around
45 hours



DJ Drone(89.2Wh)
Around
20 Recharges



Smartphone(10Wh)
Around
181 Recharges

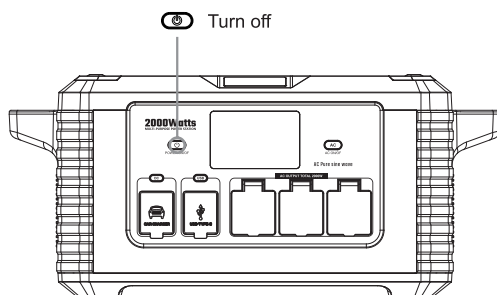


Switch(16Wh)
Around
113 Recharges

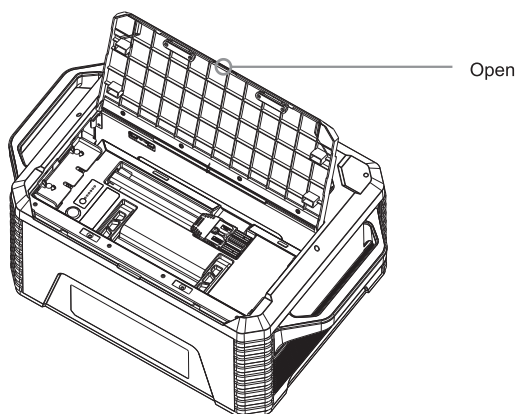
+MORE

Operating instructions for battery replacement

- 1) Before replacing the battery, turn off the power to the device.



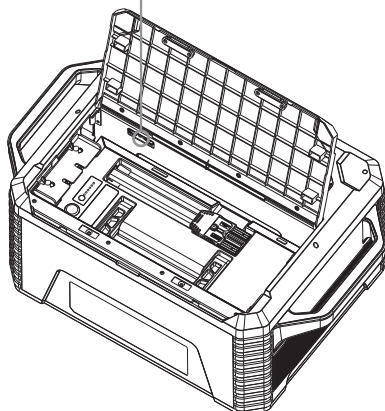
- 2) Open the upper cover of the device and turn off the battery switch button.



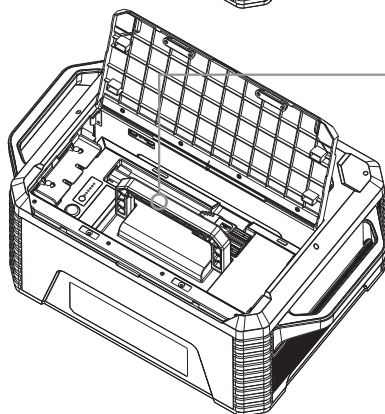
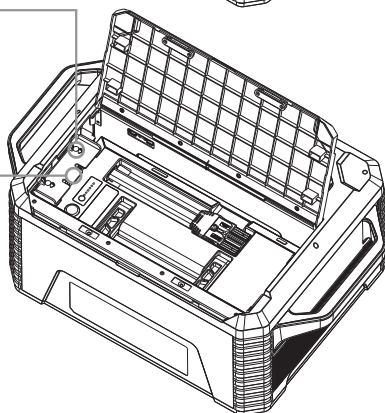
- 3) Please disconnect the battery socket, then loosen the butterfly screw and take out the pressure piece and then take out the battery.



Disconnect the socket

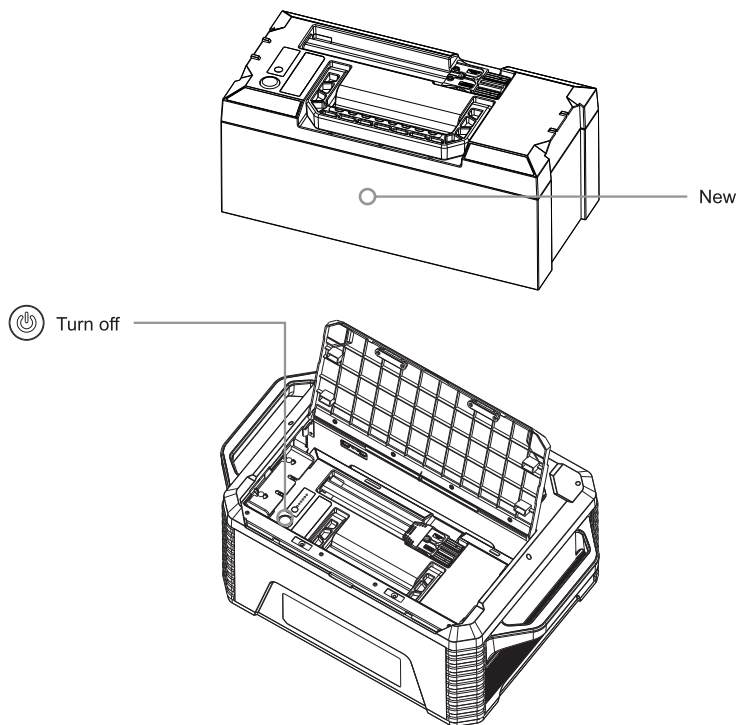


Loosen the screw a bit,
then pull out the metal sheet



Take out the battery

- 4) Please put in the new battery and insert the metal pressing piece then tighten the butterfly screw, and insert the battery socket.
- 5) Please open the battery button inside the device, and finally put the cover on the device.



Operating instructions

Re-charging

Use the original AC line to charge, the full charge time is about 1.8-2.5 hours. When charging, the LCD screen will be lit, the LCD display will provide real-time display data of battery charging, and the device will display 100% when it is fully charged. It is recommended to fully charge the device every 3 months to maintain the life of the device.

Power output attention

Press output switch to select the desired outlet type. The output port must press the corresponding button to activate the port. When activated, the LCD display will turn on and provide detailed information about the charging output. When no output is activated, the LCD screen will automatically turn off.

Overload condition

If the output ports is overloaded, the device will automatically turn off the output power. The code "E08" will be displayed on the LCD screen.

Discharging

Press the "Power on/off" button for 1 seconds to turn on the device. Press the "Power on/off" button for 3 seconds to turn off the device. The device uses an advanced battery management system that allows it to charge the connected device through AC or DC output or USB output.

How to switch frequency?

The device can intelligently identify the frequency of voltage when charging, and can automatically set the frequency, so please charge before using. After plugging in the charging cable, the display will show the frequency of current grid voltage if it displays "F50", it is 50Hz, if it displays "F60", it is 60Hz.

You can also manually set and change the voltage frequency. Before using the power station MP2000, please confirm the voltage frequency of your electrical equipment, 50 Hz or 60 Hz?

Then press the "Power on/off" button for 1 seconds to turn on the device. If "F50" is displayed on the LCD, it means that the operating frequency of the power station MP2000 is 50 Hz. If "F60" is displayed on the LCD screen, it means 60 Hz.

If the frequency displayed on the LCD display does not match the frequency of the local power grid, you must change the frequency according to the following steps:

First Step: press the button 'Power on/off' for 3 seconds to power off (the LCD display screen will turn off);

Second Step: keep pressing the button 'AC on /off' with your right finger first and then press the button 'Power on/off' for 1 seconds with your left finger, then release the both fingers off the buttons. You will see the frequency.

Cooling fan

The equipment is designed with an internal cooling fan to ensure that the product runs within the proper temperature range. When the device experiences a high output load, it will automatically turn on the fan. During discharging and charging, the fan may run intermittently to keep the internal temperature within the operating range. When the AC circuit is activated, the fan is likely to start to ensure normal operation.

Power saving sleep mode

- 1: No charging (AC input + PV), no discharging (DC + USB + AC). When charging is not connected and only the main switch is turned on: sleep after 5 minutes.
- 2: Any charging is connected (regardless of whether there is power), and it does not sleep.
- 3: USB <5W, DC <5W, AC <25W, three conditions are met at the same time, and sleep after a delay of 8 hours.
- 4: The self-consumption of whole machine is less than 5mA after shutting down all switch and sleeping.
- 5: Please open the upper cover and switch off the battery during transportation or it will not be used for a long time. Self-consumption after switching off is less than or equal to 200μA.

Equipment cleaning

Please make sure that the device is disconnected from all input power and output devices. Wipe with a clean, dry, non-soft cotton cloth. Remove all any foreign objects, dirt or other obstructions on the vents on both sides. While cleaning foreign objects in the side vents, do not allow debris, dirt or other blockage to enters the equipment.

Do not use corrosive cleaners or solvents.

Do not use compressed air to clean the side cooling vents, as it will cause foreign particles to enter the interior and cause a short circuit.

⚠ Note: To avoid the risk of electric shock, do not use metal objects to clean the ports.

Storage

If it will be stored for more than 1 month, please charge it to 50% capacity and keep it indoors, at normal temperature, and the maximum storage time shall not exceed 6 months. Please keep it away from direct sunlight (see the general specification section).

Excessive temperature will lead to reduced service life, overheating and fire. Extremely cold conditions below the specified storage range can also impair the performance and service life of the equipment. Please keep away from corrosive chemicals and gases.

After taking it out of storage, perform a visual inspection to ensure that the appearance of the equipment and all accessories are qualified. Check the vents on the intake and exhaust sides to make sure they are free of foreign objects.

Notice:



Transportation: The MP2000 power station meets all legal requirements for the transportation of dangerous goods. The capacity of the lithium battery pack exceeds 100Wh. According to international standards, if the power station is transported by air, it must be transported in accordance with IATA standard packaging. The instructions and labeling requirements of the International Air Transport Association and related declarations must be completed.

Not permitted on aircrafts

Avoid dropping

To preserve the battery lifespans, please use and recharge at least once every 3 months

Do not disassemble

Use original or cerified charger and cables

It's not waterproof,do not expose to liquids

Avoid extreme temperature

Please dispose of batteries and electronic goods in accordance with local regulations

Technical specifications

General parameters		
	Rated capacity	2264Wh
	Net weight	≈27kg
	Product size	574mm *369mm*259mm
Input		
	AC charge input voltage	AC 95-130V (50Hz/60Hz)
	AC charge input voltage power	AC 1200W max
	Solar charge input	DC 12-75V/600W max.
	Car charger	DC 12V/24V 5A max
Output		
	AC output voltage	110V±10V, 50/60Hz
	Rated output power	2000W
	Output waveform	Pure sine waves
	Overload protection power	2100±80W
	Cigarette lighter socket output	12V/8A
	DC5525 output	12V/4A
		Total: 10A max.
	USB-A fast charge output	5V 2.5A, 9V 2A, 12V 1.5A, 18W max.
	USB-C output	5V/9V/12V/15V/20V 3A DC, 60W max.
Battery		
	Cell chemistry	Lithium-ion battery
	Standard capacity of cells	3.7V/612000mAh
	Operating temperature	5 to 113°F (-15 to 45°C)
	Charging temperature	32 to 104°F (0 to 40°C)
	Cycle life	1000 times, 70%, 25°C
	The maximum shelving period	Half a year

Trouble shooting

The device does not discharge:

- 1) Check whether the connecting wire has been inserted in right place;
- 2) Check whether the total output power exceeds the rated output power;
- 3) Check whether the temperature of the equipment is too high.

The device is not charging:

- 1) Confirm that the AC socket on the wall and the AC charging cable are fully inserted into the AC input terminal;
- 2) Confirm whether the battery pack wiring is in good condition and whether the switch of the battery pack is turned on;
- 3) The device cannot be charged immediately after it is discharged. Please put it aside for an hour and try again, because it may enter the over-temperature protection.

Maintenance and warranty

Maintenance

Check as needed. If the MP2000 power station cannot be used regularly, please charge and discharge it every 3 months under normal temperature to keep the service life. Regularly check all ports and wall chargers for any debris, dirt, damage, and corrosion.

Do not disassemble the device privately.

Do not cover the equipment with towels, clothes or other items. Regularly observe the side vents for dust and foreign matter, and clean them according to the cleaning procedures specified in the manual.

Disposal/recycling



Do not put the device and its accessories in the trash can. Items must be properly handled in accordance with local laws and regulations. For additional information, please see www.epa.gov.

Affirm

Copyrighted equipment. All rights reserved. All trademarks cited here are the property of their respective owners. The information contained in this agreement is subject to change without notice. The We is not responsible for technical or editorial errors or omissions contained in this agreement. First edition: Aug. 2021.

We assure the original purchaser that our products are free of defects in workmanship and materials during the applicable warranty period determined in the "Warranty Period" section below, but the exclusions set below is excluded.

This warranty statement sets total and exclusive obligations of us. We will not assume, nor authorize any person to assume for us any other liability related to the sale of our products.

Warranty period

The warranty period is 12 months, and the warranty period is calculated by the original consumer purchaser from the date of purchase. In order to determine the start date of the warranty period, a sales receipt from the first consumer purchase or other reasonable documentary proof is required.

Repair processing

We will repair or replace any products that cannot be operated due to defects in workmanship or materials within the applicable warranty period. If a valid claim is filed within the applicable period, we can choose:

- (1) Replacement product.
- (2) It can be exchanged with products of equal value. The replacement product bears the remaining warranty period of the original product or replaces it (90) days from the date of warranty, whichever is greater. The customer is responsible for the shipping cost of the return.

Exclusions

The warranty of MP2000 does not apply to 1) any product that is modified, misused, abused, damaged by accident, or used for anything other than normal consumer use as authorized in current product literature or 2) any product purchased through an online auction house. The warranty of MP2000 does not apply to the battery cell unless the battery cell is fully charged by you within seven days after your purchase the product and at least every 6 months thereafter.

After-sales service

For after-sales maintenance service, please contact our customer service team.

EVERGEAR®