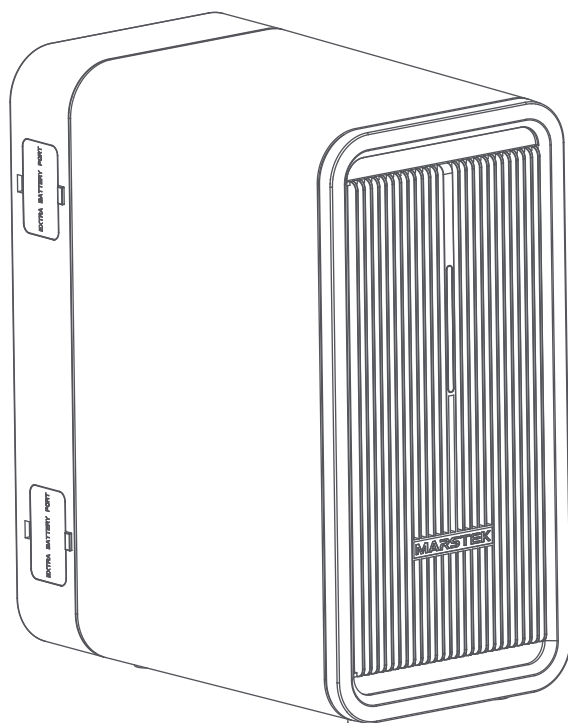


MARSTEK

MICRO ESS B2500 Instruction Manual



Attention! Please read this manual carefully before using this product.

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Specifications

					
Capacity	Weight	Dimension	Battery Cell	Waterproof	Certificate
2240Wh (5000mAh/44.8V)	18.7±0.5 kg	296*175*350mm	LiFePO ₄ Battery	IP65	 RoHS 

				
PV Input	PV Output	Extra battery port Input	Extra battery port Output	Extra battery port Capacity
12V-59V \rightleftharpoons 8.47A*2 500W*2 Max.	42V-50.4V \rightleftharpoons 9.25A*2 400W*2 Max.	44.8V-51.1V \rightleftharpoons 22A	42V-51.1V \rightleftharpoons 23A	6720Wh

				
Cycle times	Storage Temperature	Operation Temperature	Charging Temperature	Protect system
6000times (25°C)	-10 - 55°C	-10 - 50°C	0 - 50°C	Overcharge protection, Over-discharge protection, Overcurrent protection, Over temperature protection, Short circuit protection, Overvoltage protection.

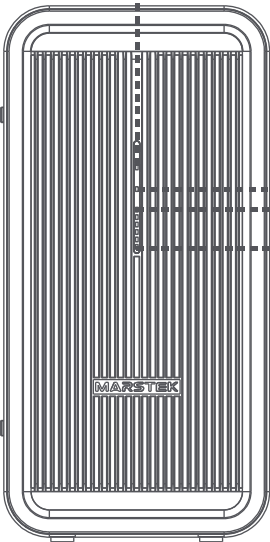
Operating Temperature range

Low temperature may affect the battery capacity of the product, The product can be charged in a temperature range of 0°C- 50°C. Charge the product when the temperature is below 0°C, We recommend placing the product in an insulated cooler or other temperature conditions. The product can be used in the temperature range of -10°C- 50°C. In order to extend the service life of the battery, it is recommended to use this product in the environment of 20°C to 30°C.

Product description

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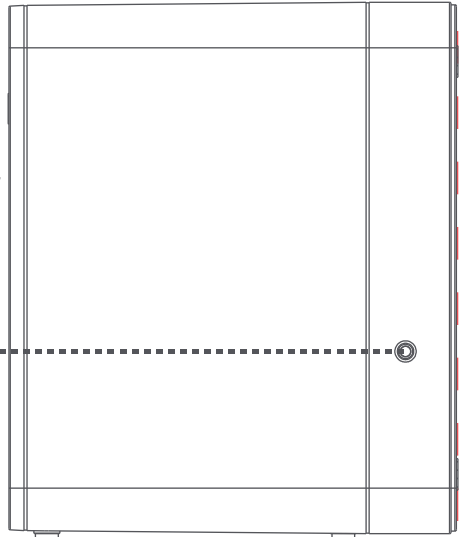
WiFi&BT indicator



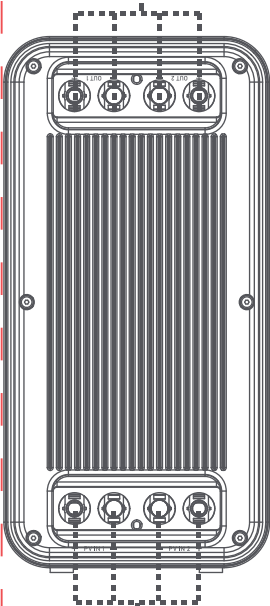
Warning indicator

Battery indicators

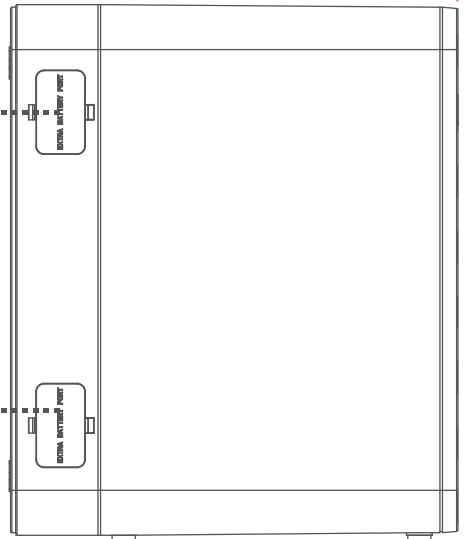
Power button



PV output



PV input



Extra battery port

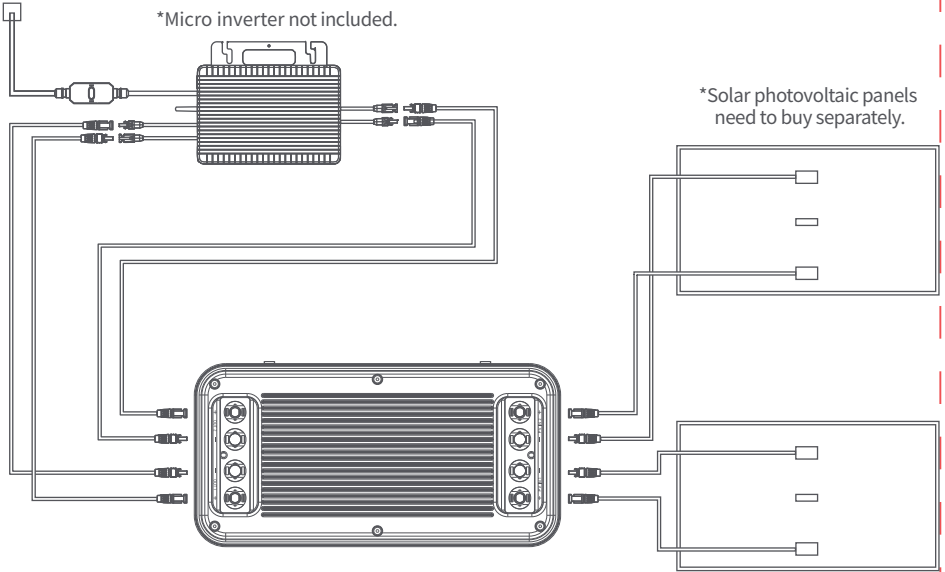
*Extra battery need to buy separately

Use Instructions

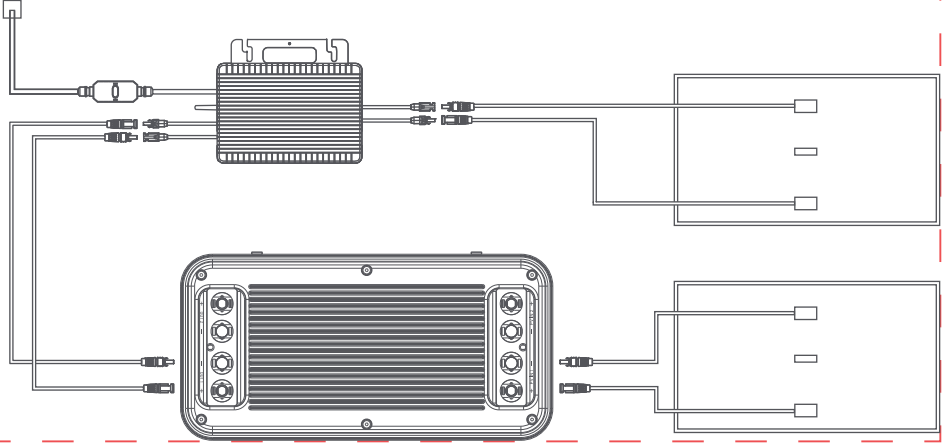
How to use it:

1. Connect the solar panel to B2500 PV IN;
2. Connect the micro inverter MC4 input to B2500 MC4 OUT;
3. Long press the B2500 switch button until the power display state light up;
4. If not in use, you can Long press 10S the switch button to turn off the the B2500.

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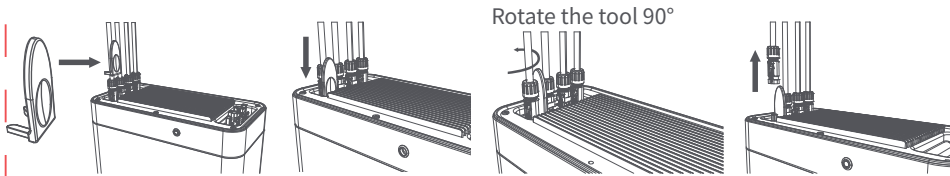


If you find that the micro inverter is not functioning properly after the connection described above, please connect as follows: Connect one of the micro inverter to the Output1 of the product, and the other micro inverter should either be disconnected or connected to the solar energy.



*This issue arises from the fact that some of the micro inverters available on the market have a common internal reference point. When both micro inverters are connected to a battery bank simultaneously, the micro inverter will function abnormally.

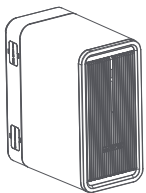
Cable removal:



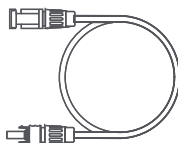
Important Tips:

- Before connecting cables, ensure that the micro inverter, solar panels, and the home grid are disconnected, and product is turned off.
- Before setting the output to micro inverter please confirm the rated power of your micro inverter, the output to micro inverter should not be greater than the rated power of your micro inverter.
- The product should be protected from direct sunlight to prevent rapid temperature increase.
- Please check the accessories before installation, some accessories need to be purchased separately.
- After the installation, please first download the App to check electricity produced .
- For long-term storage, charge and discharge product once every 3 months (discharge product to 20%,then recharge it to 80%).

Packing list



B2500*1



MC4 Extension Cable *4



Tools*1



User Manual

APP Instructions

MARSTEK APP can connect all your devices via Bluetooth or wi-fi to track your energy use and production in real time, dynamically display the status data of the device in real time, and control the energy of the device in its own hands.

This software could be operated on mobile phones with Android 6.0 and IOS12.0 or above.

Software installed

Scan the QR code and install the opened app on your smartphone.



Login

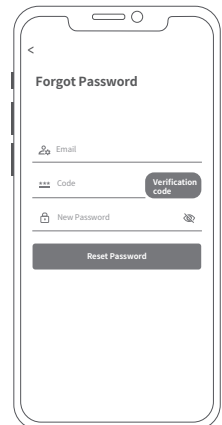
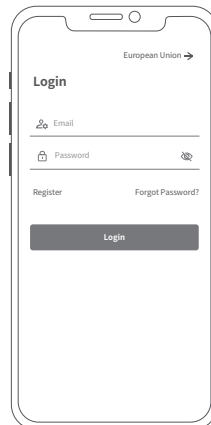
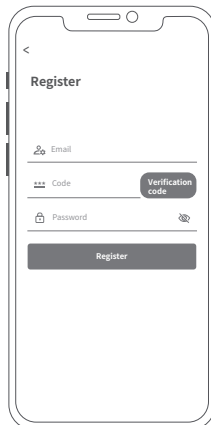
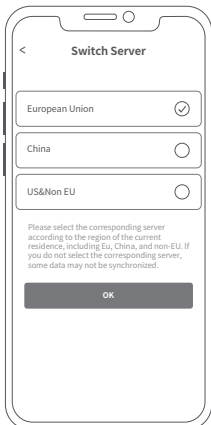
After installation, users can click the desktop icon to enter the login interface, you will enter the server switching interface when you open it at the first time.

Select Register Account, Enter your e-mail address. A confirmation code will be sent to the email address previously provided for verification. Confirm your email in the app with the code you have just received and set a password.

Log in with your e-mail address and the password you have chosen.

If you have forgotten your password, select "Forgot Password?" and reset it.

In the login interface click on the upper right corner -> enter the server selection interface, according to different regions to choose. If you select the wrong server, the app cannot retrieve device history data.



Adding devices

- . After successful login, select "Add Device" in the upper left corner to add a device.
- . Scan the QR code (QR code only for M5000) on your device to add the device, or open Bluetooth® on your smartphone and location sharing on the phone and select the device to add it directly.
- . Once the device has been successfully added, the name of your power station is displayed on the start page.
- . Clicking on different devices in the device management page will switch the connection to different devices, left swipe on IOS system triggers modifying and deleting devices, long press on the device list on Android system triggers modifying and deleting devices.

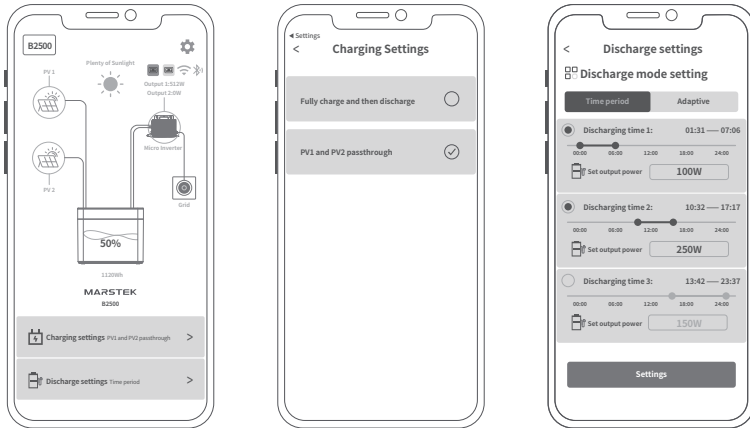


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Equipment home page

- . Real-time display the solar charging status, discharge and other status.
- . Charging settings: 1. PV1 and PV2 charging the battery for fully charged, then discharged.
- 2. PV1 and PV2 transmitting to Micro inverter.

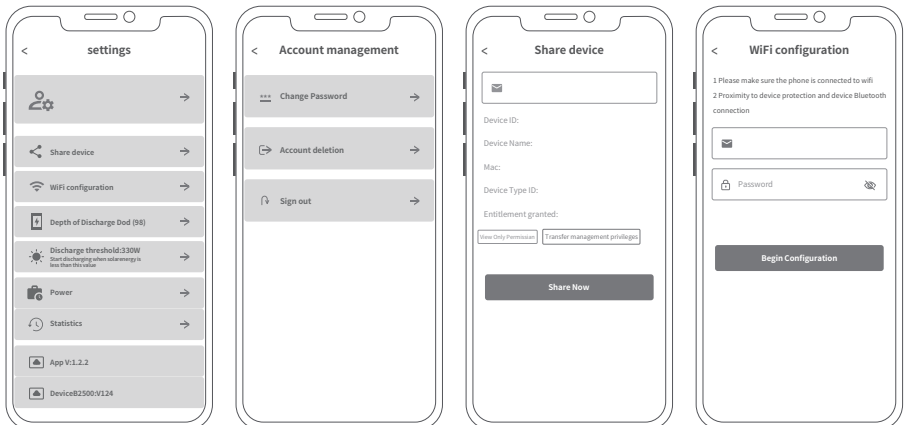
. Discharge settings: set the output mode of the product, (1) You can select the time period of each line and power output of the product through the APP. (2) You can turn on the smart power control mode, in which the product will automatically collect the household electricity, and control the product output of the household electricity needs, thereby saving electricity.



App settings

Select the settings wheel at the top right to change settings or get information:

- . Account Management.
- . Share Equipment.
- . WiFi network.
- . Deep discharge setting.
- . Discharge start threshold setting.
- . Power.
- . Statistics.
- . App and device information.



Frequently Questions & Answers

Q:What is the battery type?
LiFePO4 Battery.

Q: Can the product be taken on the aircraft?

No, according to the airline transportation standards, 100Wh capacity of lithium battery can not board the aircraft.

Q: Can be charged with solar panels from a different brand?

Yes. Please use solar panels that meet the following specifications for charging. Voltage range: 12-59VDC, Rated output power (discharging): 800W max. (Choose our solar photovoltaic products, just insert the DC port, you can easily charge the product with solar energy. This product uses MPPT (Maximum Power Tracking) technology, which can compare the output voltage point of the solar panel with the battery voltage of the product in real time, so as to find the maximum power output point that the solar panel can provide and charge the battery of the machine to obtain the best charging efficiency. * Actual performance is related to weather)

Q: How can I prolong the lifespan or better maintain my product that is mounted on the floor?

If your balcony is often flooded, we recommend raising your product. This will prevent malfunctions due to prolonged soaking.

Warranty and Contact Information

Under normal use of the product, it will not affect the result of defective workmanship and materials used in the product: This warranty period describes the complete and exclusive warranty obligations of the product, and we will not assign or authorize anyone to be responsible for any other products.

warranty period

Product warranty period of 3 years. In all cases, the warranty period starts from the date of purchase by the consumer. In order to ensure the start date of the warranty period, the consumer needs to provide proof of purchase or other reasonable supporting documents.

The following conditions are not covered by the warranty

- 1.The appearance of the product is damaged after use.
- 2.Unauthorized disassembly and maintenance of non-professionals.
- 3.Performance problems caused by human factors.
- 4.Damage caused by natural disasters, lightning Strikes, accidents and other irresistible factors.

How to get warranty service

You can contact our customer service through our official website or e-commerce platform. Thank you for your cooperation!

Chemical Composition of Toxic and Harmful Substances

Part Name	Toxic and harmful substances or chemical elements						O: The content of hazardous substances in homogeneous materials all components are limit requirement specified in GB-T 26572. X: The content of hazardous substance in at least one of the average materials of the part exceeds the limit requirement of GB-T 26572, and there is no mature alternative in the industry at present, which meets the environmental protection requirements of the EU RoHS directive.
	Pb	Hg	Cd	Cr(VI)	PBB	PBDE	
Product shell	0	0	0	0	0	0	
Circuit module	X	0	0	0	0	0	
button	0	0	0	0	0	0	
Small hardware	0	0	0	0	0	0	
Charging Cable	0	0	0	0	0	0	
Battery	0	0	0	0	0	0	

This information for reference purposes only and does not represent a binding agreement. Product (Color, Size, OSD, etc.) in kind prevail

Important safety information



Warnings!

Please notice the following safety precautions carefully. If physical injury, loss of data, or damage is caused by failure to follow instructions, the warranty does not apply.

- To reduce the risk of injury, close supervision is necessary when the product is used near children.
- Do not put fingers or hands into the product.
- Use of an attachment not recommended or sold by the product manufacturer may result in a risk of fire, electric shock, or injury to persons.
- To reduce risk of damage to the electric plug and cord, pull the plug rather than the cord when disconnecting the product.
- Do not use the product in excess of its output rating. Overload outputs above the rating may result in a risk of fire or injury to persons.
- Do not use the product or attachment that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion, or risk of injury.
- Do not operate the product with a damaged cord or plug, or a damaged output cable.
- Do not disassemble the product. Take it to a qualified service person when service or repair is required. Incorrect reassembly may result in a risk of fire or electric shock.
- Do not expose the product to fire or high temperatures. Exposure to fire or temperatures above 130°C may cause an explosion.
- To reduce the risk of electric shock, unplug the power pack from the outlet before attempting any instructed servicing.
- Have servicing performed by a qualified repair person using only identical replacement parts. This will ensure that the safety of the product is maintained.
- When charging a device, the product may feel warm. This is a normal operating condition and should not be a cause for concern.
- When charging the internal battery, work in a well-ventilated area and do not restrict ventilation in any way.
- Do not clean the product with harmful chemicals or detergents.
- Misuse, dropping, or excessive force may cause product damage.
- When disposing of secondary cells or batteries, keep cells or batteries of different electrochemical systems separate from each other.
- Do not use or store this product in direct sunlight for a long period, such as in a car, cargo bed, or any other place where it will be exposed to high temperatures. Doing so may cause the product to malfunction, deteriorate, or generate heat.
- Servicing of batteries should be performed or supervised by personnel knowledgeable about batteries and the required precautions.
- Do not use this product near strong static electricity or strong magnetic fields.
- Do not expose this product to flammable, explosive gas, or smoke.
- Do not stand on the product.
- Do not immerse the product in water. If the product accidentally falls into water, place it in a safe, open place and keep it away from fire until it is completely dry.
- Please deal with the scraps according to the regulations. For more details, please follow the local laws and regulations on battery recycling and disposal.

RoHS

