



F7200

Portable Power Station

User Manual



Dear customer, thank you very much for purchasing and using the F7200 portable power station. Before operating this product, please carefully read the user manual for proper operation.

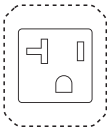
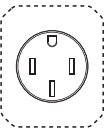
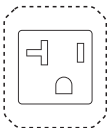
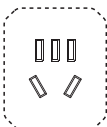
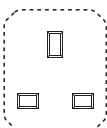
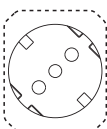
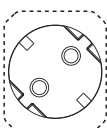
According to the transportation requirements of the international customs for battery products, the battery level of this product is only less than 30% when it leaves the factory. After unpacking, please fully charge the product before first use.



Precautions For Use

1. Please avoid long-term storage and use of this product in environments with high temperature, high humidity, or direct sunlight, to prevent the battery life from being shortened and to avoid other malfunctions. Keep the product away from fire sources, otherwise it may cause a fire hazard or explosion.
2. This product must not be disassembled or modified. Improper operation may cause product malfunction or even fire. Unauthorized disassembly or modification may void the warranty.
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 or collided and may cause bodily injury to children. Keep the product away from pets as well.
5. Please use our original accessories, and we do not guarantee defects caused by the use of non-original accessories.
6. Please directly plug in the wall socket to charge the product, 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 plugged in 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 consume the product from a fully charged state to an uncharged state, then recharge it to about 50% of the battery level and store it. For long-term storage, recharge to 50% every 3 months in a dry, room-temperature environment.
8. If the product reaches scrap conditions, please discard or recycle the product in accordance with local laws. Contact your local recycling center for proper disposal instructions.

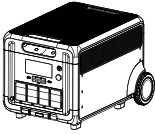
AC Output Parameter

Type of AC port	AC output
 US	120V 50Hz/60Hz
  US	240V 50Hz/60Hz
 JP	100V 50Hz/60Hz
  JP	200V 50Hz/60Hz
 CH	220V 50Hz
 UK	220V~240V 50Hz/60Hz
 EU	220V~240V 50Hz/60Hz
 KR	220V 60Hz

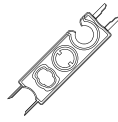
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Packing list



Portable Power Station



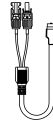
MC4 disassembly
wrench (x2)



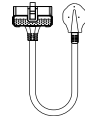
User Manual



Cigarette Lighter Output Port to
XT60 Plug Cable



MC4 to XT90 Plug
Charging Cable



AC Charging Cable *2
(120V+240V)

Product Introduction

This product is a portable power device with a built-in battery pack with charge/discharge capabilities. It includes both AC output interface and output, etc. It also has functions such as display, interface control, protection, and alarm. Moreover, this product can be charged by mains AC, solar panels and vehicle charging. It can be used with up to two battery packs with a maximum capacity of 15666Wh.

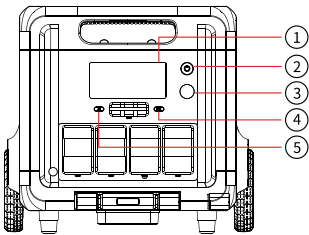
The following are the main features of this product:

- Equipped with LiFePO4 battery host, the battery energy is up to 5222.4Wh and after merging, the maximum capacity can reach 15666Wh, which can meet the daily consumption of a family. To connect additional battery packs, follow the instructions on page 10.
- Pure sine wave AC output can meet almost all daily electronic equipment and small household appliances.
- Bidirectional fast-charging technology enables full recharge in approximately 2.5 hours.
- Multiple output interfaces including USB-A and Type-C PD (Power Delivery) support diverse application scenarios.

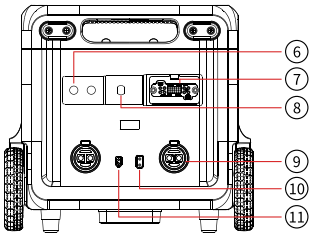
- Integrated UPS functionality achieves sub-10ms switching time, ensuring seamless power transition.
- Multi-layer protection mechanisms (battery management, circuit protection, and structural safeguards) ensure operational safety.



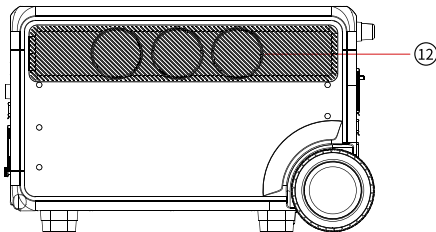
Button Function Introduction



- ① LCD Screen
- ② Power ON/OFF Button
- ③ Input Power Adjustment
- ④ USB ON/OFF Button
- ⑤ AC Button



- ⑥ High Voltage PV Input
- ⑦ AC Input
- ⑧ High Voltage PV Input Button
- ⑨ Parallel Port
- ⑩ Low Voltage PV Input
- ⑪ Car Charger Input
- ⑫ Cooling Fans



① LCD Screen

Display the product's battery level and usage status tips.
(e.g., charging, discharging, USB port turned on, etc.)

② Power ON/OFF Button

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

Press and hold the Power button again for 3 seconds to turn it off.

③ Input Power Adjustment

When the product is connected to the AC mains for charging, the power is adjusted according to the actual input voltage. It provides 5 levels of input power regulation: 600W/1200W/1800W/ 2400W/ 3000W. The clockwise rotation increases the input power, and the counterclockwise rotation decreases the input power. It is worth noting that charging this product at low power is beneficial for extending battery life.

④ USB ON/OFF Button

Instructions: Short press the USB button to turn on the USB output p and short press it again to turn it off.

		
USB-A×1	TYPE-C×1	TYPE-C×1
QC 3.0	PD-20W	PD-100W

⑤ AC Button

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

Press the AC button 10 times in succession to enter the voltage switching mode, and then automatically exit the mode after a period of time.

⑥ High Voltage PV (Photovoltaic) Input

High voltage photovoltaic input MC4 interface, maximum power 2500W, 120V-450V supported.



Danger: High voltage (120V-450V). Turn off the PV switch before connection or disconnection.

⑦ AC Input

Charging the product via a household outlet enables rapid charging at 1800W (120V) or 3000W (220V-240V), achieving a full 0% to 100% charge in just 2.5 hours. When using this charging method, please observe the following precautions:

- ※ Please directly plug in the wall socket to charge the product, do not use extension cords or cable taps, otherwise there is a risk of damage to the extension cords and cable taps or will even be a fire disaster.
- ※ If the extension socket is plugged in to charge this product, please do not connect other electrical appliances to this socket, otherwise the household meter may trip.

⑧ High Voltage PV Input Button

It can control the on and off of high voltage DC input to further ensure the safety of users.



Danger: High voltage (120V-450V). Turn off the PV switch before connection or disconnection.

⑨ Parallel Port

The capacity expansion need to be accomplished by connecting the parallel cable into the portable power station. This interface can achieve a maximum input and output of 7200W.

⑩ ⑪ Low Voltage PV Input/Car Charger Input

This interface supports solar panel input or car charger input. For more details, please refer to "Solar Panel Connection" on page 11 of this manual and "Car/Vehicle Charging" on page 13.

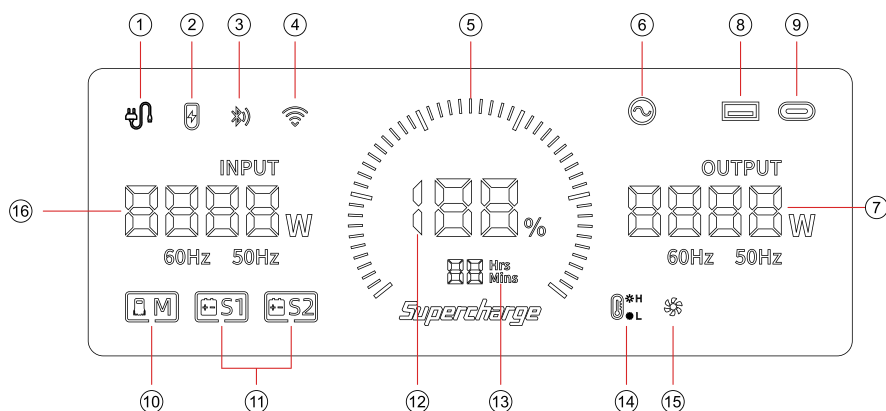


Only one input source (either the low-voltage PV input or the vehicle-mounted charger input port) can be used at a time.

⑫ Cooling Fans

When the product reaches the temperature threshold set by the system, the cooling fan will automatically run, accompanied by a certain fan noise (fan noise below 60dB is normal). Do not block the cooling suction/exhaust port during use of this product, and do not place any object within the range of 30CM.

Introduction of Display Interface



1.Connected to the AC Mains

2.PV/Car Charger Input

3.Bluetooth

4.WIFI

5.Battery Progress Bar

6.AC Output

7.Output Power in Total

8.USB Output

9.PD Output

10.Host Logo

11.Parellel Operation Logo

12.Battery Level Percentage

13.Remain Using/Recharging Time

14.High/Low Temperature Protection

15.Fan Status

16.Input Power in Total

Screen Display Description

Power display: When the product is in the charging state, the battery progress bar rotates continuously in the form of a clockwise marquee, and the battery level percentage gradually increases; when the product 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 cursor corresponding to the working area will be displayed on the screen.

Alarm prompt: See the following troubleshooting table for details.

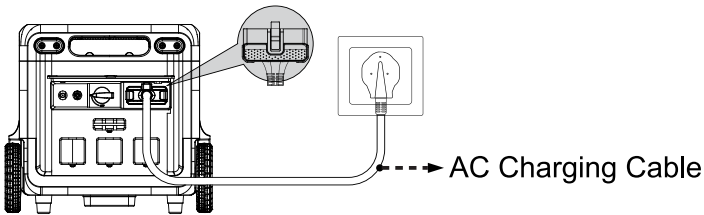
Troubleshooting Sheet

Phenomenon	Cause	Processing method
 The above output icon flashes and beeps.	The output exceeds the rated limit and it's short-circuited.	Remove the load, and then short press the switch in the area corresponding to the flashing icon to clear the alarm.
 The temperature warning icon flashes and beeps.	The product temperature is too high or too low.	Take the product out of the charging state, remove all loads, turn the power off, wait for the device to reach a suitable working temperature, then the alarm is removed.
 The icon of connecting to the AC mains flashes and the product cannot be charged.	The charging cable is poorly connected.	The overload protection function is enabled.
 The parallel light blinks.	Parallel failure.	Charge the product with lower battery capacity, or discharge the product with higher battery capacity (until the power difference of these two products is less than 80%), and then reconnect them.

AC Input

When charging the product via mains input, the provided power cable must be used. Under single-phase input at standard voltage (120V), the charger delivers an input power of 1800W. With dual-phase input at standard voltage (240V), the charger provides 3000W input power.

When connecting the product to the AC socket with a charging cable, first connect the charger to this product, insert the charger tail plug into the product's AC input port, and hear a "click" sound, indicating that the charger and product are connected, and then connect the charger head plug to the AC socket.



UPS Mode

• UPS Feature

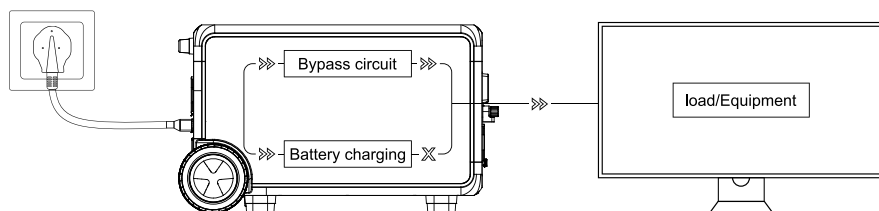
This product has the function of backup uninterruptible power supply. The usage and operation precautions are as follows:

As shown in Pic1 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.

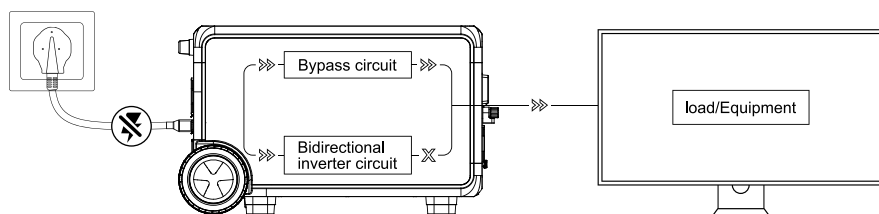
In this working state:

The total charge and discharge power of this product must be lower than 1800W(100V-120V) or 7200W(220V-240W), otherwise the overload protection may be triggered. Note: In 120V voltage Ups mode, only ports 1 and 2 work properly, and ports 3 and 4 are disabled.



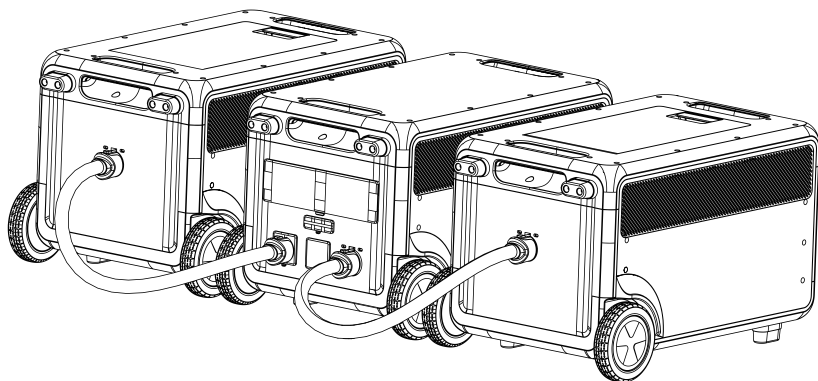
(Pic 1)

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 10ms, 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 two battery packs through parallel cables, with a maximum capacity of up to 15666Wh. Please connect the product when the portable power station and extra battery pack are turned off. After the connection is completed, there will be icons of S1 and S2 connection displays on the screen. After connecting them successfully, the system can start charging or discharging. When charging and discharging after connection, the power will be distributed according to the left power of the product.

To ensure balanced charging and discharging, the system will automatically distribute power based on the remaining capacity of each battery pack.

The charging power of the device with lower capacity is small when charging, and the output power of the device with higher capacity is high when discharging. If there is no external charging, energy exchange may occur between the portable power station and battery packs. When the left capacity of them is close, the charging process will stop, and the power will be show on the screen.

Precautions

- Please do not plug and unplug the connecting cable when the products is under use, please connect or disconnect these two products when they are turned off.
- Please do not make the connecting ports of the portable power station short-circuited.

Connection of Solar Panels

Under the condition of light, this product can be connected to the solar panel and getting charged. The charging power is determined according to the conditions of light and weather.

This product supports solar panel charging with the following specifications:

High-Voltage PV Input (MC4 Interface):

Maximum Power: 2500W

Voltage Range: 120V- 450V

Connection: MC4 interface

Low-Voltage PV Input (XT90 Interface):

Maximum Power: 1200W

Voltage Range: 12V-50V

Connection: XT90 interface

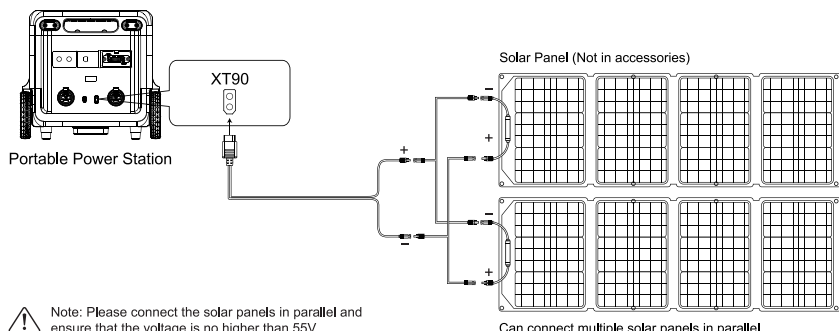
Important Notes: Ensure that the input voltage from the solar panels does not exceed the specified ranges.

Any damage caused by exceeding the voltage limits (above 450V for high-voltage input or above 50V for low-voltage input) will not be covered under warranty. When connecting solar panels, follow the instructions provided in this manual to ensure proper setup and avoid potential damage to the product.

• Solar panel charging

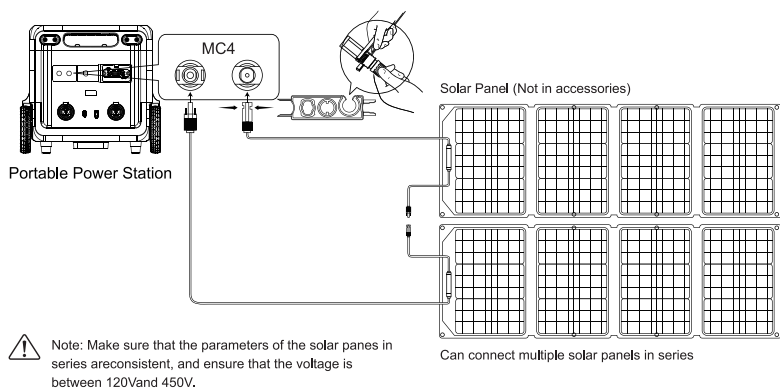
Scheme One

Low voltage PV input (XT90)



Scheme Two

High voltage PV input(MC4)



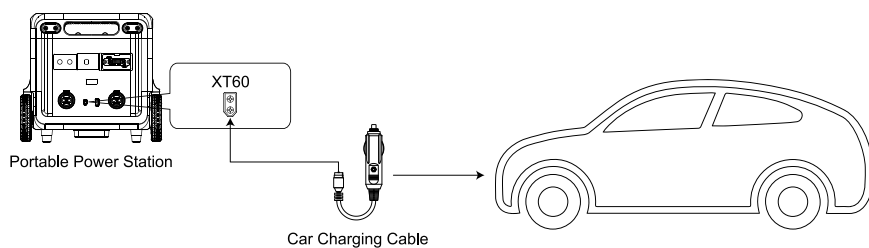
※ How to remove the HV PV panel: Clamp the main connector with the wrench's small clip and pull the PV panel's MC4 ports out.

Car/Vehicle Charging

When the car is in the process of starting, connect the car charging port on the car and the product through the car charging cable to charge the product. The connection method is shown in the picture below:

This product supports 12V/24V car charger charging, please pay attention to the following two points when using this method to charge:

- ※ Please do it when the car started, otherwise the car battery may be exhausted.
- ※ Vehicle charging power is usually in the range of 120W(12V) to 240W(24V), and the charging time is long.
If fast charging is required, the AC mains charging is recommended.



Product Specifications

Product Name	F7200 Portable Power Station
Dimension	L × W × H=670 × 450 × 410mm
Weight	70Kg
Capacity	5222.4Wh
AC Input	1800W(120V), 3000W(240V)
AC Output	7200W (Single-phase Port + Dual-phase Port)
Solar Recharging	High-voltage: 2500W max (120V-450V) Low-voltage: 1200W (12V-50V/30A)
USB-A Output	18W
USB-C Output	100W/ 20W
Car Charging	12V-30V 10A
Shutdown Current	<500uA
Working Temperature	-10~40°C
Environment Humidity	≤90%RH
Cycle Times	> 6500 times

Battery Specifications

Cell type	LF100LA
Rated voltage of single battery	3.2V
Rated capacity of single battery	102Ah
Rated voltage of battery pack	51.2V
Output voltage range of the battery pack	40V~54V
Rated capacity of battery pack	5222.4Wh

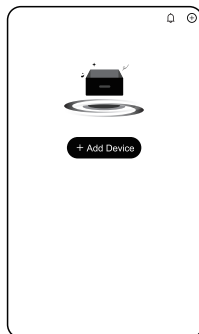
Connecting to APP

Step 01



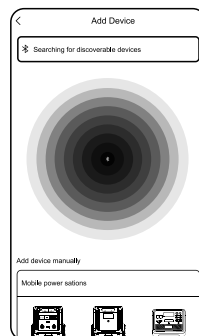
BrightEMS

Step 02



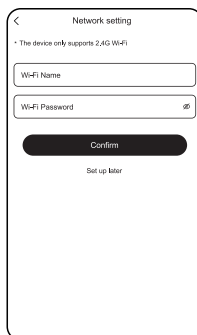
Add Device

Step 03



Search By Bluetooth

Connecting To Wi-Fi



Connect The Network

FCC Statement

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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.

RF Exposure Information

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

Warranty Card

Warranty Card	
Name	
Address	
Tel	
Mail	
Brand , Order number	
Buying date	
Fill in the date	
What is the product failure	
Please fill in all the above items.	

This product provides a 24-month warranty service from the date of purchase

- 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 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, sometimes it will 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.

Manufacturer: Shenzhen Qichang Intelligent Technology Co., Ltd.

Address: Room 510, 5th Floor, Bld 7, Yunli Smart Park, Bantian Street, Longgang District,
Shenzhen, Guangdong, China

Technical service email: support@fossibot.com

Company official website: <https://us.fossibot.com/>



<https://us.fossibot.com/>

N090_主机说明书_(英)_V1.01

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;