F7200

User Guide

Hello, Thank you very much for purchasing and experiencing the F7200 Portable Energy Storage Power Supply. Before using this product, please carefully read the user guide to ensure correct usage.

Due to transportation requirements for battery products, the power level of this product is limited to within 30% when leaving the factory. After unpacking the product, please fully charge it to begin your F7200 experience journey.

Usage Precautions

1. Please avoid long-term storage and use of this product in environments with high temperature, high humidity, or direct sunlight, to prevent shortening the lifespan of the battery and other malfunctions. Do not place this product near fire sources, as it may cause serious fires or accidents.

2. Do not disassemble or modify this product under any circumstances. Improper operation may cause product malfunctions or even fire.

3. Be careful not to drop the product from a height or let it fall, to avoid damaging the product.

4. Please store or use this product out of the reach of children. Dropping or impact of the product may cause physical injury to children.

5. Please use the original accessories provided by our company. We will not provide warranty service for product defects caused by using non-original accessories.

6. Please connect the product directly to wall outlets for charging. Avoid using extension cords or cable splitters, as there is a risk of damage to extension cords and cable splitters, or even fire. If using a power strip to charge this product, do not connect other electrical appliances to the same power strip; otherwise, there is a high possibility of the household circuit breaker tripping.

7. When the product is not in use or idle, please switch the power of this product to the OFF position and unplug the power cord. If you need to leave it unused for a long time, please discharge the product from a full charge to no power, then charge it to about 50% before storage. To extend the product's life, please operate and store it in this manner every three months.

8. If the product reaches the end of its service life, please dispose of or recycle it in accordance with local laws and regulations.

AC Output Parameters

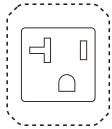
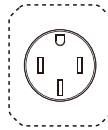
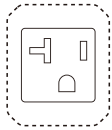
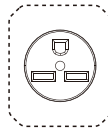
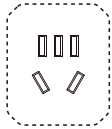
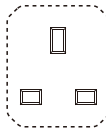
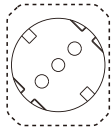
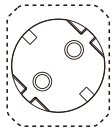
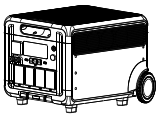
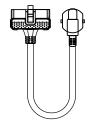
Power Outlet	AC Output
 US	120V 50Hz/60Hz
  US	240V 50Hz/60Hz
 JP	100V 50Hz/60Hz
  JP	200V 50Hz/60Hz
 CH	220V 50Hz
 UK	220V~240V 50Hz/60Hz
 EU	220V~240V 50Hz/60Hz
 KR	220V 60Hz

Table of Contents

Package Contents

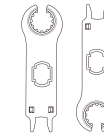


Portable Power Station

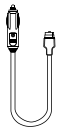


AC Power Cable

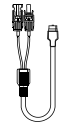
User Guide



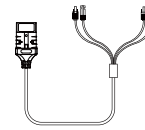
Wrench*2



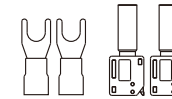
Cigarette Lighter to XT60 Power Cable



MC4 to XT90 Power Cable



Anderson to MC4 Cable



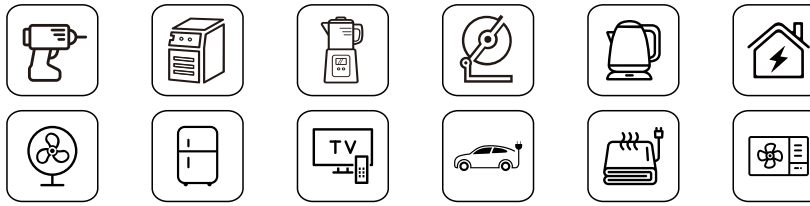
Insulated Fork Terminal*2
Insulated Banana Plug*2

Product Introduction

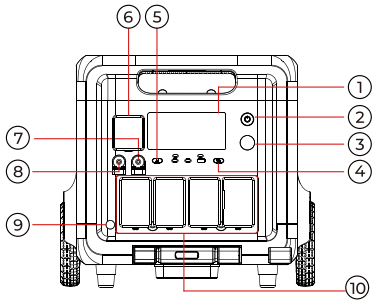
This product is a portable power device with a built-in battery pack, featuring both charging and discharging capabilities. It includes AC output interfaces as well as DC output interfaces such as USB output and Anderson port for connecting micro inverter. Additionally, it offers display, interface control, protection, and alarm functions. The product can be charged via mains electricity, solar panels, or car charging, and it can be used with up to two additional battery packs, achieving a maximum capacity of 15666Wh.

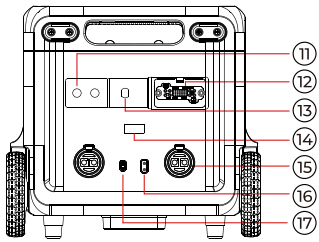
The main features of this product are as follows:

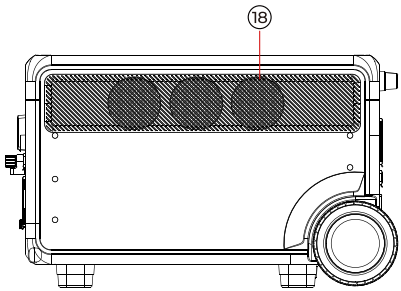
- Utilizes lithium iron phosphate ($LiFePO_4$) battery cells, with a battery capacity of up to 5222.4Wh, expandable to a maximum of 15666Wh when combined with additional battery packs, meeting the daily energy needs of a single household. To connect additional battery packs, follow the instrutions on page 10.
- Pure sine wave output, capable of powering everyday electronic devices and small household appliances.
- Employs bidirectional fast-charging technology, fully charging the product in approximately 2.5 hours.
- Diverse output interfaces including USB-A and Type-C PD, accommodating a wide range of application scenarios.
- Equipped with UPS functionality, featuring a switching time of less than 10 ms, truly achieving seamless transition.
- Multiple protection mechanisms for the battery, circuitry, and structural components, ensuring comprehensive safety for the product.



Introduction to Button Functions







1. LCD Screen
2. Main Power Switch
3. Input Power Adjustment Button
4. USB Switch
5. AC Switch
6. Circuit Breaker
7. Neutral Wire Terminal
8. Live Wire Terminal
9. Grounding Terminal
10. AC Output
11. High-Voltage PV Input
12. AC Input
13. High-Voltage PV Input Switch
14. Micro Inverter Interface
15. Battery Pack Interface
16. Low-Voltage PV Input
17. Car Charger Input
18. Cooling Fan

① LCD Screen

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

② Main Power Switch

Usage: Press and hold the Power button for 3 seconds to wake up the system and turn on the LCD screen. Press and hold the Power button again for 3 seconds to turn it off.

③ Input Power Adjustment Button

When the product is connected to mains power for charging, you can manually adjust the input power using the knob. It provides 5 levels of input power regulation: 600W/1200W/1800W/2400W/3000W.Turning it clockwise increases the input power; turning it counterclockwise decreases it.

Note: Charging this product at lower power levels is beneficial for extending the battery's lifespan.

④ USB Switch

Usage: Briefly press the USB button to turn on the USB panel output ports.
Press again briefly to turn them off.

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

⑤ AC Switch

Press the AC button to activate the AC output function. Since the AC output frequency may vary in different regions, proceed as follows to switch frequencies: Press and hold the AC button for 3 seconds to enter frequency switching mode. The 50 Hz or 60 Hz icon will flash on the display screen. Briefly press the AC button again to select either 50Hz or 60Hz. The icon will stop flashing and display the chosen frequency, indicating a successful switch.
To enter voltage switching mode, press the AC button 10 times consecutively. The mode will automatically exit after a short period.

⑥ Circuit Breaker

Controls the connection and disconnection of the binding posts. Pull up the circuit breaker to connect the terminals, and push it down to disconnect them.

⚠

Note: When connecting appliances to the binding posts, please ensure that the circuit breaker is in the down (off) position.

⑦ ⑧ Live/Neutral Wire Terminal

Banana Plug Connection: Use a banana plug to connect to the live and neutral terminals respectively. After confirming the wiring is correct and firm, turn on the air switch.

SV Fork Connection: Loosen the terminal counterclockwise, insert the SV fork shaped pre-insulated terminal into the plastic shell, then tighten the terminal clockwise. After confirming the wiring is correct and firm, turn on the air switch.

⚠

When plugging or unplugging wires for the terminal, make sure the air switch is in the OFF state.

⑨ Grounding Terminal

If the installation location has insufficient grounding or local regulations require special grounding conditions, establish compliant grounding via this product's grounding connector.

⑩ AC Output

Delivers 220-240Vac pure sine wave AC power, with a maximum total output of 7200W.

1. Exceeding 7200W rated load triggers automatic constant power mode.

2. Current over 20A in either left/right parallel output ports activates corresponding overload protector, cutting output (see Troubleshooting Table for solutions).

⚠

When AC switch is on but no output, it auto-shuts off after 8 hours (adjustable via APP for wireless models).

⑪ High-Voltage PV Input

High-voltage photovoltaic (PV) MC4 input interface with a maximum power of 2500 W, supporting 120 V–450 V.

Note: When connecting or removing the high voltage PV, ensure that the high-voltage PV input switch is in off state.

⑫ AC Input

Connect to a household outlet to charge the product. This enables 3000 W (220 V–240 V) fast charging, taking only 2.5 hours to fully charge from 0% to 100%.

When charging in this manner, please note the following:

※ Please connect the product directly to a wall outlet for charging. Avoid using extension cords or cable splitters, as there is a risk of damage to the cords and splitters, or even fire hazards.
※ If using a power strip to charge the product, do not connect other appliances to the same power strip. Doing so greatly increases the likelihood of tripping the household circuit breaker.

⑬ High-Voltage PV Input Switch

Controls the on/off of the high-voltage DC input, providing additional safety for the user.

Note: When connecting or removing the high voltage PV, ensure that the high-voltage PV input switch is in off state.

⑭ Micro Inverter Interface

Through this port, you can connect a micro inverter, allowing the device to connect to the power grid and supply power to the entire household.

⑮ Battery Pack Interface

Expansion is achieved by connecting additional battery packs to the main unit via parallel cables. This interface can support up to 200A of input and output.

⑯⑰ Low-Voltage PV Input/Car Charger Input

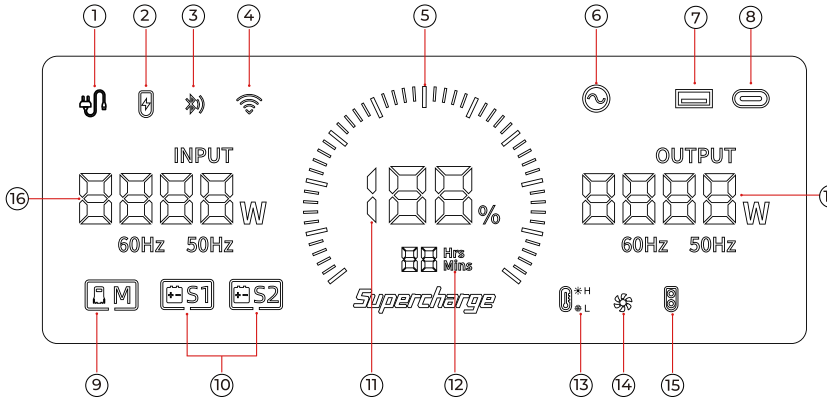
This interface supports input from solar panels or a vehicle charger. For more details, please refer to the sections "Solar Panel Connection" and "Car Charging" in this manual.

Note: The low-voltage PV input and the car charger input port cannot be used simultaneously.

⑱ Cooling Fan

When the product reaches the system's set temperature threshold, the cooling fan will automatically operate, accompanied by some fan noise (a fan noise level below 60dB is normal). During use, do not block the cooling air intake or exhaust ports, and do not place objects within 30cm of them.

Overview of Display Interface



① AC Charging

② PV/Car Charger Input

③ Bluetooth

④ WIFI

⑤ Battery Progress Bar

⑥ AC Output

⑦ USB Output

⑧ PD Output

⑨ Main Unit Indicator

⑩ Slave Unit Indicator

⑪ Battery Percentage

⑫ Remaining Usage/ Charging Time

⑬ High/Low Temperature Protection

⑭ Fan Status

⑮ Micro Inverter Interface

⑯ Total Input Power

⑰ Total Output Power

Screen Display Description

Battery Level Display: When the product is charging, the battery progress bar rotates continuously in a clockwise marquee fashion, and the battery percentage gradually increases. When the product's battery level is at 0%, the battery percentage icon will flash.

Input and Output Status: During operation, the total input power, total output power, and the cursor indicating the corresponding working area are displayed on the screen.

Alarm Notifications: For details, please refer to the following troubleshooting table.

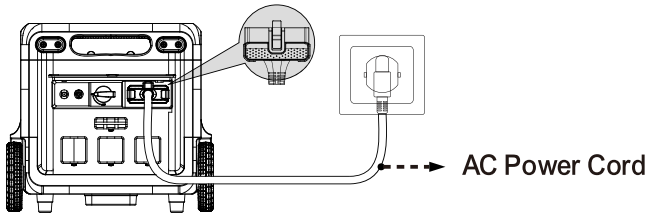
Troubleshooting Table

Phenomenon	Cause	Solution
 Any of the output icons flashing accompanied by beeping sounds.	Output overload/ short circuit	Remove the load, then briefly press the switch corresponding to the flashing icon to clear the alarm.
 Temperature warning icon flashing and beeping.	Temperature warning icon flashing and beeping.	Disconnect the product from charging, remove all loads, turn off the power, and wait until the device returns to an appropriate temperature; the alarm will clear.
 Grid power connection icon flashing, cannot charge.	Poor connection of the charging cable	Check the connection status of the cable and ensure the power supply is functioning properly.
 Parallel operation icon flashing.	Parallel operation failed	Charge the product with lower battery capacity or discharge the product with higher battery capacity (until the battery difference is less than 80%), then reconnect

AC Input

When using mains power to charge this product, please be sure to use the power charger supplied with the product. At standard voltage (220V-230V), the charger can provide up to 3000 W of input power to the product.

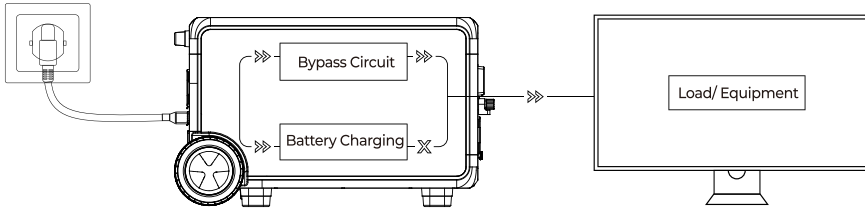
When connecting the product to a mains outlet using the charging cable, first connect the charger to the product by inserting the rear plug of the charger into the product's AC input port. You will hear a "click" sound, indicating that the charger is securely connected to the product.
Then, connect the front plug of the charger to the mains socket.



• UPS Mode

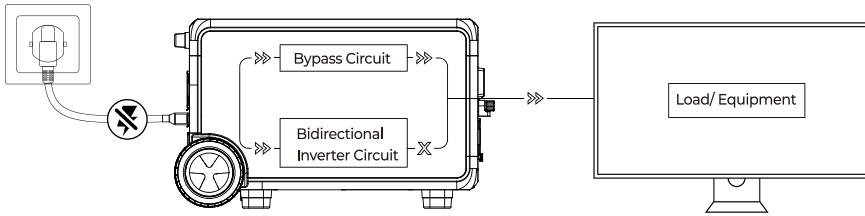
This product features a standby Uninterruptible Power Supply (UPS) function. The usage method and operational precautions are as follows: As shown in Figure 1 below, when this product is inserted between a power outlet and an appliance, and both the product's power switch and AC switch are in the ON position, the product enters UPS working mode. The mains electricity from the outlet supplies power to the appliance through a bypass circuit, while simultaneously charging the product.

In this operating state:
The total charging and discharging power of the product must be less than 3000W (220V-240V only); otherwise, it may trigger overload protection.



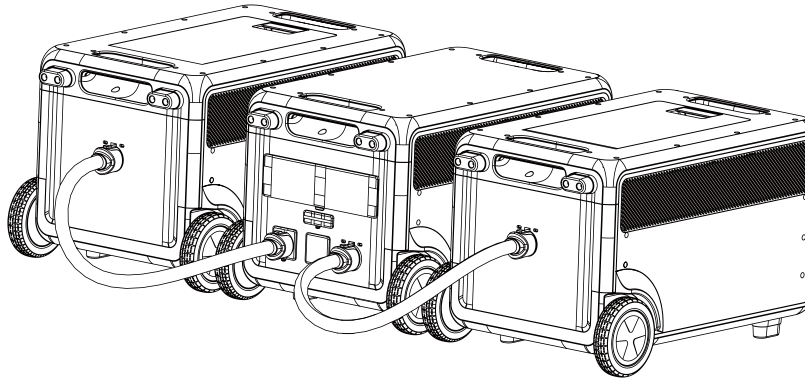
(Figure 1)

As shown in Figure 2 below, when the mains electricity from the outlet is disconnected, the internal bypass output of the product stops functioning. Within 10 ms, the product switches to the bidirectional inverter circuit, which then supplies power to the appliance, ensuring that the appliance remains continuously powered and operates normally during this process.



(Figure 2)

Battery Pack Connection Instructions



The main unit can be connected to up to two battery packs via parallel cables, achieving a maximum capacity of 15666 Wh. Please connect the products when both the main unit and the battery packs are powered off. After the connection is completed, the display screen will show the connections of S1 and S2. Once the paralleling is successful, the system can begin charging or discharging. When charging or discharging after paralleling, the charging and discharging power will be distributed according to the remaining battery capacity.

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

During charging, the unit with a higher remaining battery level will have a lower charging power; during discharging, the unit with a higher remaining battery level will have a higher output power. After successful paralleling, if there is no external charging, energy exchange may occur between the main unit and the slave units. When their remaining battery levels become similar, the charging process will stop.

Cautions

- Do not plug or unplug the paralleling cables while the product is operating. Please connect or disconnect the products only when they are powered off.
- Do not short-circuit the paralleling port of the main unit.

Solar Panel Conection

Under sunlight conditions, this product can be connected to solar panels to charge it. The charging power depends on factors such as sunlight intensity and weather conditions.

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

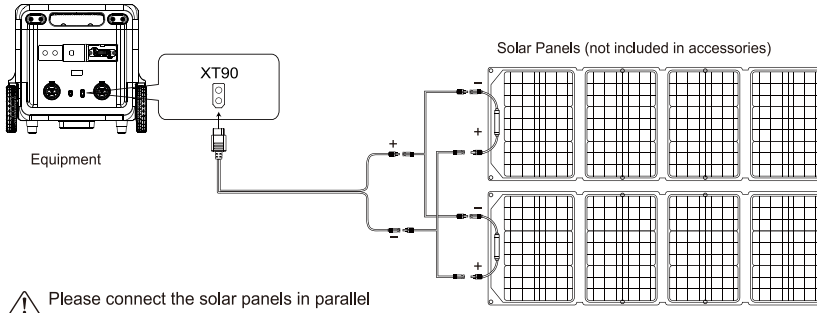
Low-Voltage PV Input (XT90 Interface):
Maximum Power: 1200W
Voltage Range: 12V-50V
Connection: XT90 interface

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 potentilal damage to the product.

• Solar Panel Charging

Solution One

Low-Voltage PV Input (XT90)

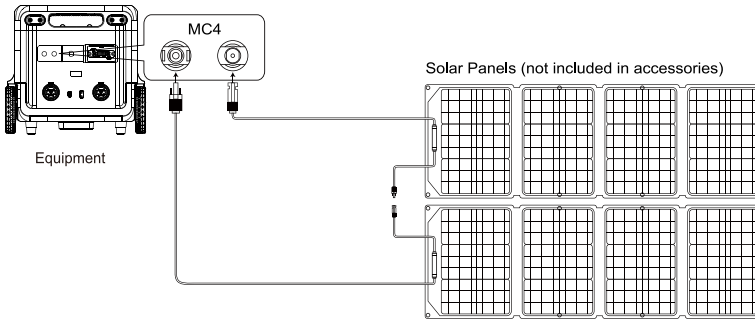


⚠ Please connect the solar panels in parallel and ensure that the voltage does not exceed

Multiple solar panels can be connected in parallel

Solution Two

High-Voltage PV Input (MC4)



⚠ Make sure that the parameters of the solar panels in series are consistent, and ensure that the voltage is between 120V and 450V.

Multiple solar panels can be connected in series

※ 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.

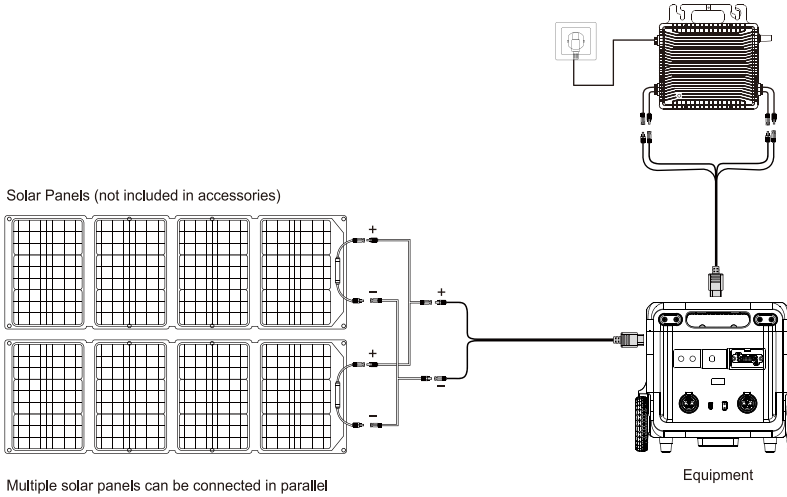
Micro Inverter Connection

To connect the micro-inverter system, after turning on the power switch, press the USB button three times consecutively to activate the micro-inverter switch. According to the user's power using habits, the discharge period and discharge power can be set through the APP, which greatly improves the photovoltaic self-use rate and achieves the purpose of saving electricity.

In cases of overvoltage, overcurrent, or short circuits, it automatically disconnects the circuit to protect the equipment from damage.The micro-inverter should be installed near the photovoltaic modules to ensure good ventilation.

Use a grid-tied connection cable to connect the product's micro-inverter interface with the input port of the micro-inverter.

Users can use Anderson-to-MC4 cable to connect F7200 and micro inverter.



⚠ Micro inverter is not included in product standard package.

※ Connecting to the Grid: Connect the AC output end of the inverter to the grid, usually through a distribution box or a dedicated grid-tie interface.

※ Grounding Procedure: Ensure that the inverter and photovoltaic modules are properly grounded to prevent electric leakage.

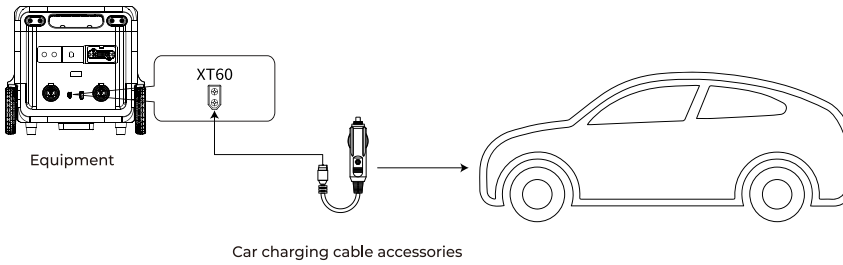
Car Charging

While the car is running, you can charge this product by connecting the car's charging port to the product using the car charging cable, as shown in the illustration.

This product supports charging via 12 V or 24 V car chargers. When using this charging method, please pay attention to the following two points:

※ Please charge while the car is running; otherwise, it may result in the car's battery being depleted.

※ The charging power of a car charger is usually in the range of 120W (12V) to 240W (24V), so the charging time will be relatively long.
If you need fast charging, we recommend using mains electricity.



Product Specifications

Product Name	F7200 Portable Power Station
Product Dimensions	L×W×H = 670×450×410 mm
Product Weight	70 kg
Battery Capacity	5222.4Wh
AC Charging	3,000 W (220 V–240 V)
AC Output	7200 W (220 V–240 V)
Solar Charging	High Voltage: Max 2500 W (120 V– 450 V) Low Voltage: 1200 W (12 V–50 V / 30 A)
USB-A Output	18 W
USB-C Output	100 W / 20 W
Anderson Output	800W, 28V-35V 30A Max, for Micro Inverter
Shutdown Current	<200 μA
Operating Temperature	-10 °C to 40 °C
Ambient Humidity	≤90% RH
Charge Cycles	>6500 times

Battery Specifications

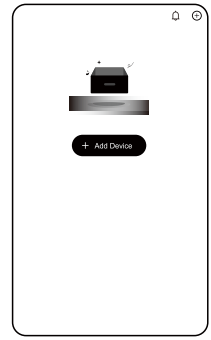
Type	LF100LA
Rated Voltage per Cell	3.2V
Rated Capacity per Cell	102Ah
Rated Voltage of Battery Pack	51.2V
Battery Pack Output Voltage Range	40V~54V
Rated Capacity of Battery Pack	5222.4Wh

APP Connection

Step 01

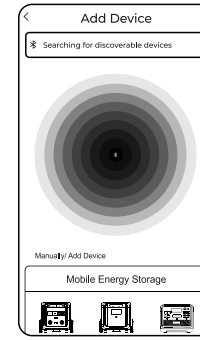
BrightEMS

Step 02



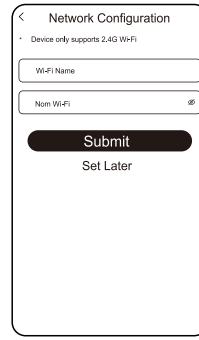
Add Device

Step 03



Search Using Bluetooth

Wi-Fi Connection



Connect to Network

After-Sales Service Card

After-Sales Service Card	
Name	
Address	
Phone	
Email	
Brand and Order Number	
Purchase Date	
Fill in the Date	
Fault Description	
Please complete the above information thoroughly.	

This product comes with a 24-month warranty from the date of purchase.

- If quality issues occur under normal usage conditions, we provide warranty service.
- After purchasing our product, please retain the product along with the invoice and other items. When you require repair services, please provide the necessary documentation as requested by our company.
- Warranty service will not be provided if the warranty card is damaged or altered, or if it lacks the stamp of the sales store.
- Damage caused by usage beyond normal parameters is not covered under the warranty service.
- The content of the warranty coverage is subject to our company's approval.
- Even within the warranty period, a product with the same functionality may sometimes be exchanged. For products outside the warranty scope, shipping and repair costs shall be borne by the customer.
- Product specifications and features may be updated at any time without prior notice.

Disclaimer

Before using this product, please read the user manual thoroughly to ensure proper understanding and correct usage. After reading, please keep the manual in a safe place for future reference. Failure to operate this product correctly may result in serious injury to yourself or others, or cause product loss and property damage. By using this product, you acknowledge that you have understood, accepted, and agreed to all the terms and contents of this document. The user agrees to be responsible for their own actions and all consequences arising therefrom. Our company shall not be liable for any losses caused by the user's failure to use the product according to the User Manual.

Within the bounds of legal compliance, our company reserves the right of final interpretation of this document and all related product documentation. In the event of updates, revisions, or termination, no further notice will be provided. Please visit our official website to obtain the latest product information.

Product Information	Product name	Portable Power Station	Brand	FOSSiBOT
	Product model	F7200	Place of Manufacture	made in china
Manufacturer Information	Manufacturer	Shenzhen Qichang Intelligent Technology Co., Ltd		
	Address	Room 510, 5th Floor, Building 7, Yunli Smart Park, No.7 Changfa Middle Road, Yangmei Community, Bantian Street, Longgang District, Shenzhen, CN		
	E-mail	support@fossibot.com		
EU Responsible person information	Principal	SUCCESS COURIER SL		
	Address	CALLE RIO TORMES NUM.L, PLANTA 1, DERECHA, OFICINA 3, Fuenlabrada, Madrid, 28947 spafr		
	E-mail	successservice2@hotmail.com		
WARNING	Flammable and Explosive Warning			
Compliance label	CE FC RoHS