FBP1200

User Guide



Thank you very much for purchasing the FBP1200 Balcony Photovoltaic Energy Storage Power System. Please be sure to read this manual thoroughly before using the product to ensure correct operation. Please keep this manual together with your invoice and other proof of purchase, as it is required for product warranty claims.

To ensure the safety of this product during transportation, the battery was charged to approximately 30% at the time of packaging. Please charge it immediately after unboxing before use.

This product can be charged directly using a wall outlet. Please do not use extension cords or multi-outlet adapters. When charging from an outlet, do not use the same outlet for any other products besides this one.

⚠ Precautions for Use

1. Avoid using the product in high-temperature, high-humidity environments, direct sunlight, or near fire sources.
2. Never disassemble or modify the product, as this may cause malfunctions or fire hazards.
3. Dispose of or recycle the product in accordance with local regulations.
4. Avoid dropping the product from heights or subjecting it to strong impacts.
5. Store or use the product out of reach of children.
6. Use only genuine accessories provided by our company. Non-genuine accessories may void free repair services.
7. Do not obstruct the cooling of the product during use. Place it in a well-ventilated area.
8. For long-term storage, drain the battery from full charge to complete discharge every 3 months, then recharge it to approximately 50% before storage.
9. If the main unit, cables, or connected devices are suspected to be faulty, stop using them immediately to prevent further issues.
10. Avoid prolonged storage in extreme temperatures (e.g., inside vehicles or outdoor sheds) to prevent battery degradation.
11. When using multiple battery packs, place the product on a flat surface and secure it to a wall if necessary.

Disposal Guide

1. If possible, fully discharge the battery before disposal. Please consult your local regulations for battery recycling and disposal.

2. If the battery cannot be fully discharged due to product failure, contact a professional battery recycling company for further handling.

3. When disposing of secondary batteries or cells, keep batteries or cells of different electrochemical systems separate from each other.

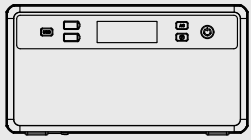
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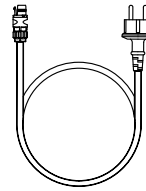
Parameters and Specifications

Basic Parameters	Model	FBP1200
	Weight	24.5kg
	Dimensions	476×308×257mm
	Capacity	1958Wh
	Wireless Type	WIFI/Bluetooth
Output	Grid-Tied Output Power	800W
	Off-Grid Output Power	1200W
	Off-Grid DC Output	USB-A 5V/2.4A
		USB-C PD100W
Input	PV Input	2000W
	Off-Grid Input	1200W
Operating Environment	Operating Temperature	-20 - 55℃
	IP Rating	IP65
	Operating Humidity	≤90%

Packing List



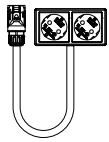
Balcony Photovoltaic Energy Storage Power Supply



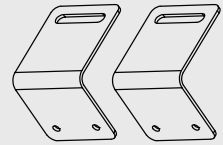
AC Cable (with Plug) (5m)



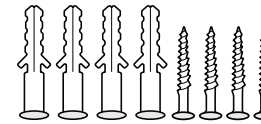
Balcony Installation Wrench (×2)



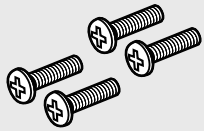
Aviation Socket Output Cable



L-Shaped Wall Mount Bracket (×2)



M5×60 Self-Sealing Expansion Screw (×4)



M5×10 Cross Recessed Composite Screw (×4)

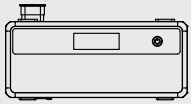


Safety Instruction Manual

Optional Accessories

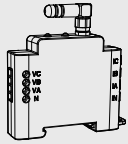
※ The following accessories must be ordered separately.

Balcony Energy Storage Battery Pack

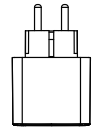


Balcony Energy Storage Battery Pack

Smart Meter and Smart Socket



Smart Meter



Smart Socket



Wireless Meter Reading Head
(WiFi&Lora) SMeter-RS02

Product Introduction

This product is a grid-tied/off-grid multi-functional balcony photovoltaic energy storage power supply designed for versatile scenarios. It utilizes extremely safe LiFePO4 batteries with a cell cycle life of up to 6,000 cycles. The product supports 800W grid-tied wall plug connection and 2000W PV input. Based on an average of 3.5 hours of effective solar daily sunlight hours, it can generate 7 kWh of electricity per day, saving 2,500 kWh annually.

Battery Heating Function Description

Each main unit battery pack and additional power pack is equipped with a heating module. When the device is charging and its temperature is below 0°C, it enters battery heating mode. The battery pack gradually warms up until the charger is disconnected or the minimum temperature of the battery pack reaches 10°C, at which point heating stops.

APP Download

Download Methods

Method 1: Scan the QR code below.

Method 2: Search for "Fossibot" in your mobile app store.

Method 3: Open a browser and search for the website: “https://cdn.shuoxd.com/app_download_page/odm/fossibot.html”。

Home AI Energy Management System

This product integrates an AI wireless module. Please use an electricity meter or smart socket to activate the Home AI Energy Management System. The system consists of a cloud platform, AI edge collection devices, and a mobile app. The advantages of the Home AI Energy Management System are as follows:

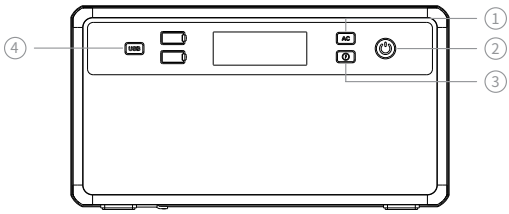
1. Rapid adaptation to solar and storage devices, compatibility with multiple smart meters, enabling home energy interoperability.
2. Incorporates AI algorithms to automatically shift peak loads and fill valleys based on dynamic electricity pricing and historical energy consumption, increasing the proportion of green energy usage and reducing electricity costs.
3. comprehensive after-sales support with an AI-powered customer service based on the ChatGPT large language model to resolve your usage issues.

How to Use the Smart Socket:

1. Turning On: Control the socket switch via the mobile app or the physical button on the smart socket. The indicator light will illuminate when the socket is turned on.
2. Connecting to Network: ① Open the app and go to "Home"; ② Tap "Add Device"; ③ Select your Wi-Fi network and enter the password (Note: The Wi-Fi must be the same as the one connected to the main unit); ④ Complete the connection.

Wireless module compatible electricity meter brands include: SMeter-RC01, Shelly Pro 3EM, Homewizard P1, etc.

Key Function Description



① Off-Grid AC Switch
② Main Power Switch
③ AI Mode Switch
④ USB Switch

① Off-Grid AC Switch

1.Press once briefly to turn on AC output; AC LED indicator lights up.
2.Press once briefly again to turn off AC output; AC LED indicator turns off.

② Main Power Switch

Usage: Long-press the Power button for 3 seconds to wake the system; long-press again for 3 seconds to turn it off.

③ AI Mode Switch

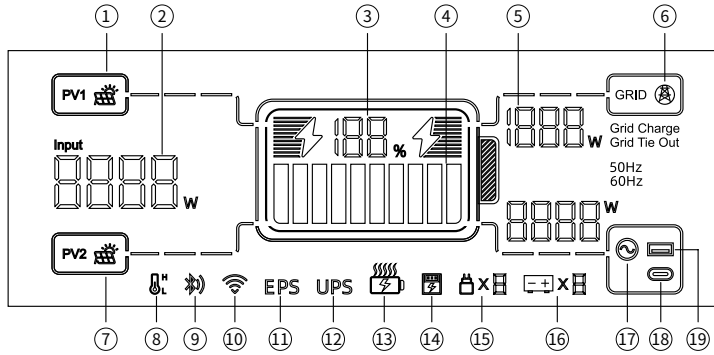
1.Press once briefly to enter AI mode, where the charging/discharging status is determined by the AI energy management system.
2.Press once briefly again to enter standby mode.

④ USB Switch

Usage: Press the USB button briefly to activate the USB panel output port; press briefly again to turn it off.

USB-A×1	TYPE-C × 1
QC 3.0	PD-100W

Display Introduction



1.Solar Panel Input PV 1
2.Total Input Power
3.Battery Percentage
4.Battery Level Progress Bar
5.Off-Grid Power
6.Off-Grid/On-Grid Indicator
7.Solar Panel Input PV 2
8.High/Low Temperature Protection
9.Bluetooth
10.WiFi
11.EPS
12.UPS
13.Heating
14.Smart Meter
15.Smart Socket
16.Parallel Connection Indicator
17.AC Output
18.PD Output
19.USB Output

Screen Display Description

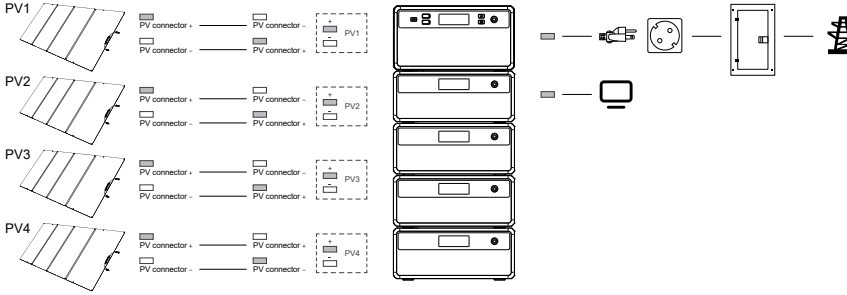
Battery Level Display: When the product is charging, the battery level progress bar rotates continuously in a clockwise marquee pattern, and the battery percentage gradually increases. When the battery level is 0%, the battery percentage icon flashes.。

Input and Output Status: When the product is operating, the total input power, total output power, and the corresponding working area cursor are displayed on the screen.

Solar Panel Connection

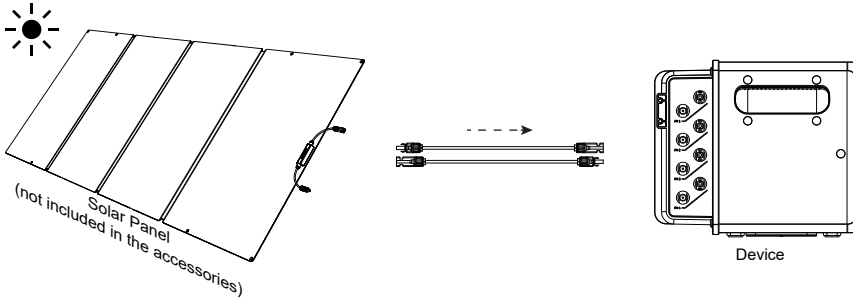
Our company's products can be connected to solar panels for charging.

※The solar charging power depends on weather and climatic conditions.
※If the solar panel voltage exceeds 60V, the device may be damaged, which might not be covered by the warranty.



Solar Panel Charging

- Device Charging Area



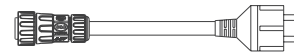
Tips

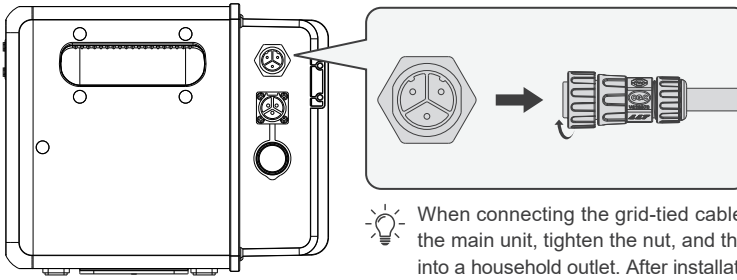
※ When connecting solar panels, please follow the instructions provided with the solar panels.
※ Before connecting, ensure the solar panel's output voltage is between 22-60V to avoid damaging the product.
※ Ensure identical solar panel models are used when connecting to the product.
※ Avoid connecting solar panels in series.

Connection

Grid-Tied Connection

- Grid-Tied Connection Cable

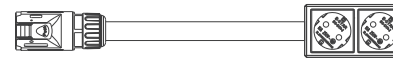


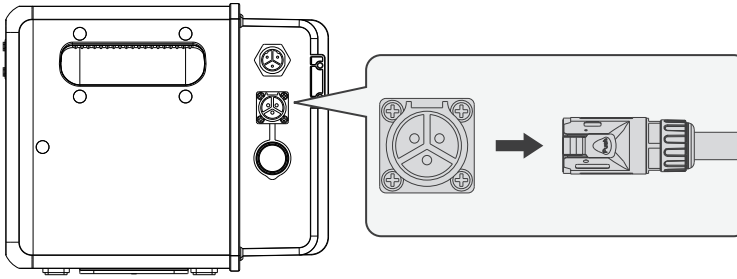


When connecting the grid-tied cable, first connect it to the main unit, tighten the nut, and then plug the socket into a household outlet. After installation, check that the nut is tightened.

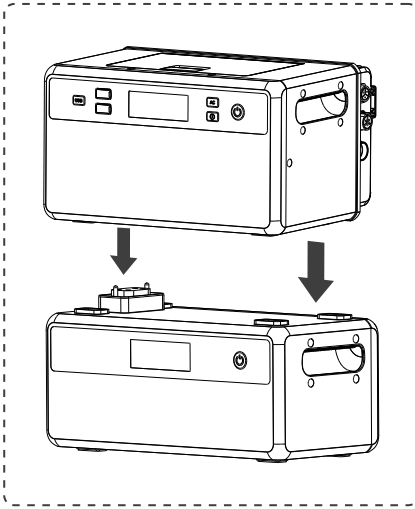
Off-Grid Connection

- Aviation Socket Output Cable



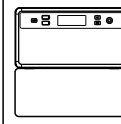
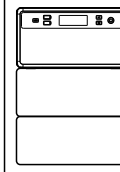
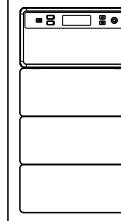


Main Unit and Battery Pack Connection



When connecting the slave unit, first align the right guide line and place the host's feet into the fixed slots of the battery pack. Then align the left guide line, gently lower the left side, and allow the host's docking port to connect with the battery pack's docking port.
When separating the host from the slave unit, gently lift the right side by 1-2 cm, then gently wiggle the left docking port to loosen it before lifting the entire unit to separate.

- The host unit can connect to multiple battery packs via the docking port.

Balcony Photovoltaic Energy Storage Power Supply					
Battery Pack	0	× 1	× 2	× 3	× 4
Battery Capacity	1958Wh	3916Wh	5874Wh	7832Wh	9790Wh

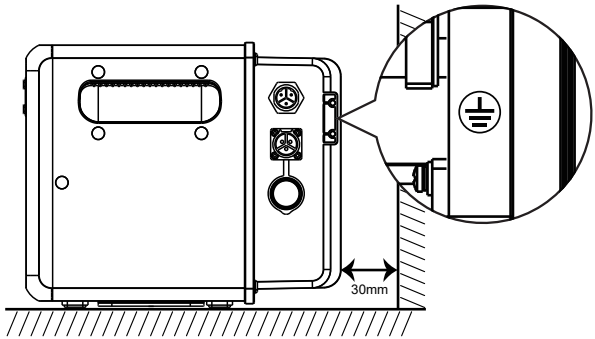
Notes

- Do not plug or unplug the docking port while the product is operating. Connect or disconnect products only when the device is powered off.
- Do not short-circuit the host unit’s docking port.

Installation

Balcony Photovoltaic Energy Storage Power Supply Installation

Place the product flat on the ground, 30 mm away from the wall. (For detailed installation steps, refer to: Wall Mounting Kit Installation)



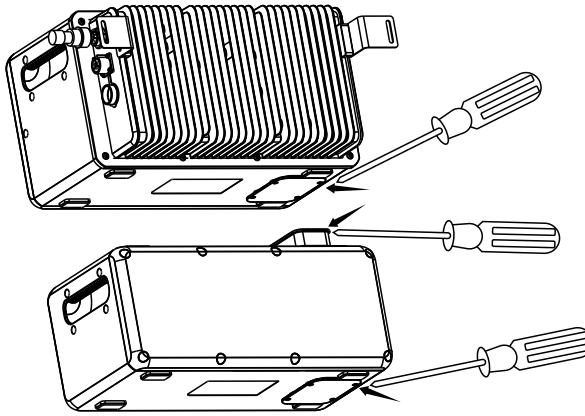
External
Grounding Terminal

External Grounding Terminal Description:

When the installation environment lacks sufficient grounding or when special grounding requirements specified by local regulations need to be met, a reliable grounding connection can be established using the external grounding terminal screws of this product. There are two screws with grounding symbols (also serving as L-bracket fixing screws) on each side of the back of the product, totaling four, all of which can be used as grounding terminals.

Expansion Battery Installation

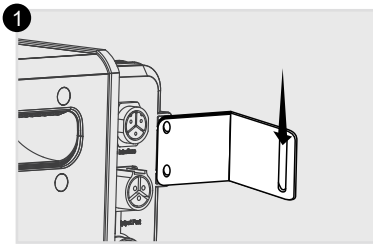
Use a cross-head screwdriver to remove the four screws of the waterproof panel at the bottom of the balcony photovoltaic energy storage unit and the expansion battery. After removing the waterproof panel, align and connect the two.



Wall-Mount Kit Installation

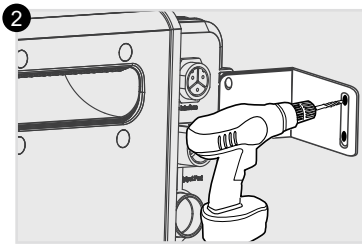
Fix the L-shaped wall mounting brackets to both sides of the balcony photovoltaic energy storage power supply and connect them to the wall.
Expansion batteries do not require additional mounting brackets. The diagram below shows one side as an example; the other side is installed in the same way.

1



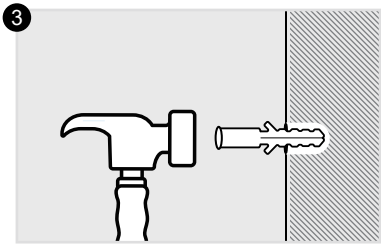
Align the two holes of the L-shaped bracket with the holes on the side of the product and mark the positions on the wall.

2



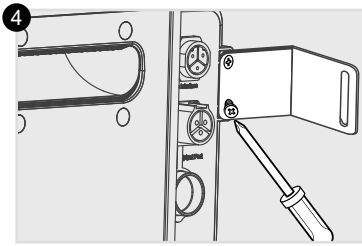
Drill holes at the marked positions with a 5 mm diameter drill bit to a depth of 65-70 mm.

3



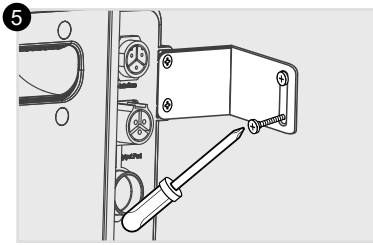
Tap the expansion tubes into the drilled holes and secure them in place.

4



Tighten the short screws to fix the bracket to the product.

5



Finally, tighten the long screws to secure the bracket to the wall.

Warranty Certificate

Warranty Certificate	
Name	
Address	
Tel	
Email	
Brand & Order Number	
Purchase Date	
Date of Completion	
Please complete the above information in full	

This product comes with a 5-year warranty service starting from the date of purchase

- We provide warranty service for quality issues that occur under normal use.
- After purchasing our product, please keep this product along with the invoice and other documents. When requesting repair service, please provide the required documents according to our company's regulations.
- Warranty service may not be provided if the warranty certificate is damaged, altered, or deemed invalid, or if it does not bear the seal of the selling store.
- Damage caused by use beyond normal scope is not covered by the warranty service.
- The scope of warranty coverage is determined solely by our company.
- Even within the warranty scope, products may sometimes be replaced with items of equivalent functionality. Shipping and repair costs for products outside the warranty scope are to be borne by the customer.
- Product specifications and functions may be changed without prior notice.

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