

FB3840

Smart Battery Pack

User Manual



Dear Customer, thank you very much for purchasing and experiencing the FB3840 Smart Battery Pack product. This product needs to be used in conjunction with the F3600 Pro. Before using this product, please read the instruction manual carefully for correct operation.

In accordance with the transportation requirements for battery products, the battery level of this product is only within 30% when it leaves the factory. After unpacking the product, please fully charge it to start your FB3840 experience journey.



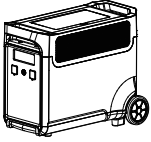
Use precautions

1. Please avoid storing and using this product in high-temperature, high-humidity, or direct sunlight environments for an extended period to prevent a shortened battery life and other malfunctions. The product should not be placed near a heat source, as it may lead to significant fires or accidents.
2. It is strictly prohibited to disassemble or modify this product. Improper handling may result in product malfunctions or even fires.
3. Be careful not to drop the product from a high place or let it fall to prevent damage.
4. Please store or use this product in a place inaccessible to children to prevent potential harm caused by the product's drops and collisions..
5. Please use the original accessories from our company. The use of non-original accessories may result in product defects, and we will not provide warranty service.
6. Please directly connect the product to electrical outlets on walls or similar locations for charging, avoiding the use of extension cords or cable splitters. Otherwise, there is a risk of damage to the extension cord and cable splitter, even leading to a fire. If using a risk of damage to the extension cord and cable splitter, even leading to a fire. If using a power strip to charge this product, do not connect other appliances to the same power strip, as there is a high likelihood of tripping the household circuit breaker.
7. When the product is not in use or idle, please set the product's power to the OFF state and unplug the power cord. If it needs to be stored for an extended period, discharge the product from a full charge to an empty state, then recharge it to around 50% battery capacity for storage. To extend the product's lifespan, please follow this operation and storage procedure every three months.
8. If the product reaches the end-of-life conditions, please dispose of or recycle the product according to local laws and regulations.

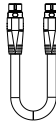
Table of Contents

■ Package List	01
■ Product Introduction	01
■ Button Function Introduction	02
■ Introduction to the Display Screen User Interface	03
■ Troubleshooting Table	04
■ Battery Pack Connection Instructions	05
■ Solar Panel Connection	06
■ Car charging	07
■ Product Parameters	08
■ Battery Specifications	08
■ After-Sales Card	09
■ Disclaimer	10

Package List



Smart Battery Pack



Parallel Wiring
(Power Connection
Cable)



User Manual

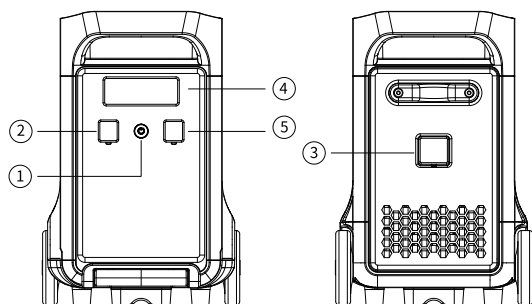
Product Introduction

This product is a portable power supply and charging pack with charging and discharging functions. It is mainly used for expanding the parallel capacity of the F3600 PRO Portable Power Station. It includes a USB direct current output interface, XT60 solar charging input port, and parallel input/output port.

The following are the main features of this product:

- Using EVE brand lithium iron phosphate battery cells, the battery capacity reaches up to 3840Wh, ensuring extremely high safety.
- Can be parallelized with F3600 PRO energy storage power supply to increase the capacity of F3600 PRO.
- It has USB-A and Type-C PD3.0 output interfaces, which can also be used independently in non-parallel mode.
- It has a PV charging function, and can also be charged in non-parallel mode. Multiple protection mechanisms such as battery, circuit, and structure ensure the safety of the product.

Button Function Introduction



- ① Power Switch
- ② XT60 Input
- ③ Parallel Input and Output
- ④ LCD Screen
- ⑤ USB Output

① Power Switch

Usage: Long press the power button for 3 seconds to wake up the system, turn on the LCD display, and long press again for 3 seconds to close. Short press the power button to turn on/off the USB ports function.

② XT60 Input

This interface supports solar panel input or car charger input. For details, please refer to page 6 of this manual for 'Solar Panel Connection' and page 7 for 'Car Charging'.

③ Parallel Input and Output



Expansion is achieved by connecting parallel cables to the host. This interface can achieve a maximum input/output of 4000W.

④ LCD Screen

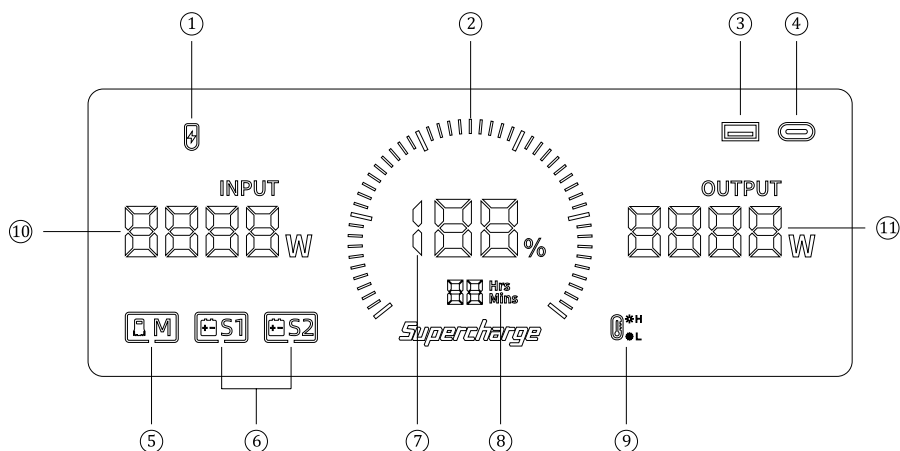
Displays the product's battery level and usage status prompts.

⑤ USB Output

USB output port.

	
USB-A×1	TYPE-C×1
QC 3.0	PD 100W

Introduction to the Display Screen User Interface



1. XT60 Input Port

2. Battery Level Indicator

3. USB output

4. PD3.0 Output

5. Host Indicator

6. Expansion Battery

7. Battery Percentage

8. Remaining Use/Charge Time

9. High/Low-Temperature Protection

10. Input Total Power

11. Output Total Power




Screen Display Instructions

Battery Level Display: When this product is in charging mode, the battery progress bar continuously rotates in a clockwise manner, and the battery percentage gradually increases. When the product's battery level is 0, the battery percentage icon will blink.

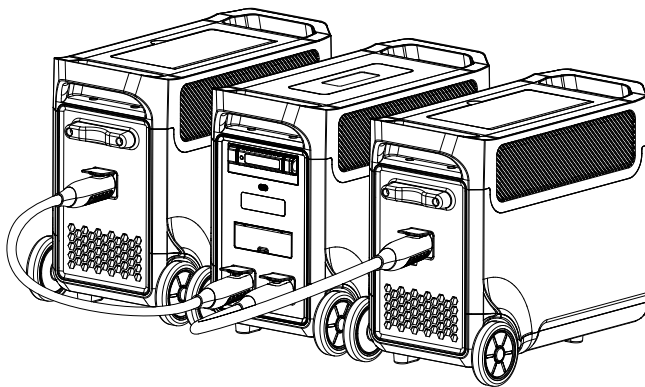
Input and Output Status: When the product is operating, the total input power, total output power, and the cursor for the corresponding working area will be displayed on the screen.

Alarm Prompt: Refer to the troubleshooting table below for details.

Troubleshooting Table

Symptom	Cause	Solution
 Any of the above output icons flash accompanied by a buzzing sound.	Output Overload/Short Circuit	Remove the load, then short press the switch in the corresponding area of the icon to clear the alarm.
 Flashing temperature warning icon, beeping.	Product temperature too high or too low.	To remove the alarm, disconnect the product from the charging state, remove all loads, turn off the power, and wait for the device to return to a suitable operating temperature.
 Parallel connection blinking.	Parallel connection failure.	Charge products with low battery capacity or discharge products with high battery capacity (until the battery level difference is less than 80%), then reconnect.

Battery Pack Connection Instructions



The host can connect up to two battery packs through a parallel connection, with a maximum capacity of up to 11520Wh. Please connect the product when both the host and the battery packs are powered off. After the connection is complete, the screen will display "S1, S2 connected," indicating successful parallel connection. Once paralleled, the system can begin charging or discharging. During charging or discharging after paralleling, the power will be distributed according to the amount of battery capacity.

When charging, the charging power is lower for products with high battery levels, and when discharging, products with high battery levels have higher output power. If there is no external charging, there may be a short-time power exchange between the host and slave machine.

Precautions

- Do not plug or unplug the parallel cable while the product is operating. Please connect or disconnect the product only when it is in the powered-off state.
- Do not short-circuit the parallel port of the host.

Solar Panel Connection

In conditions of sufficient sunlight, this product can be connected to a solar panel to facilitate charging. The charging power is determined by factors such as sunlight and weather conditions.

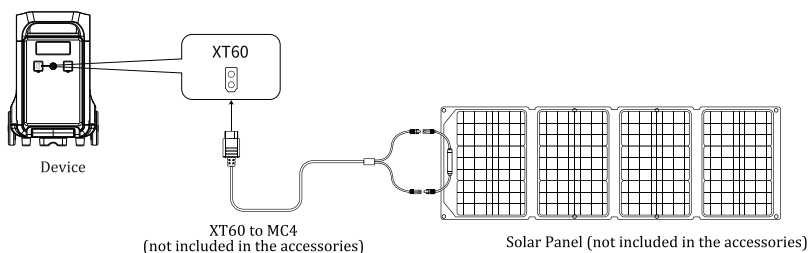
In this charging mode, we support solar panel inputs up to 200W, and the input voltage should not exceed 50V; otherwise, any resulting product anomalies will not be covered by the warranty.

We recommend adopting the following two charging schemes;

● Solar Panel Charging

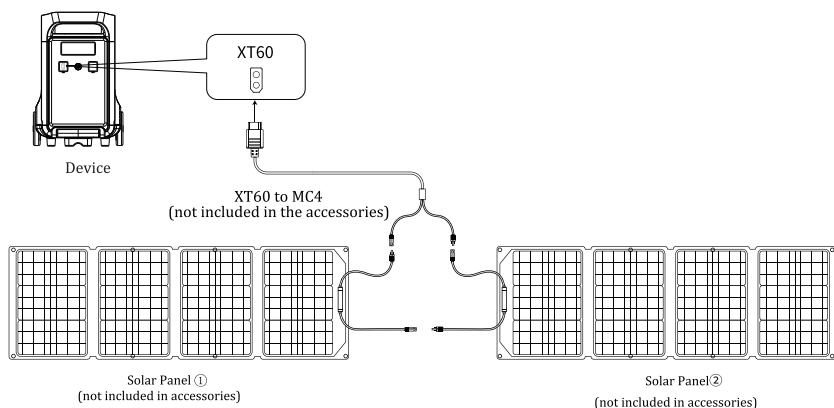
Option One

Device Charging Area



Option Two

Device Charging Area



Car charging

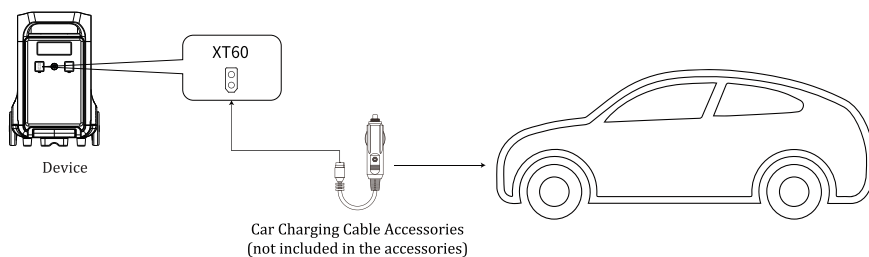
When the car is in the starting process, you can charge this product by connecting the car charging port on the car to this product using the vehicle charging cable, as shown in the diagram.

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

- * Please perform this operation with the car in the 'ON' state, as otherwise it may lead to the depletion of the car battery.

- * The power of car charging is usually in the range of 90W-120W, resulting in a longer charging time.

If rapid charging is needed, it is recommended to use mains power.



Product Parameters

Product Name	FB3840 Smart Battery Pack
Product Dimensions	L*W*H=609*321*475.5mm
Product Weight	37.8Kg
Battery Capacity	3840Wh
XT60 Input	11.5V-50V 200W Max
USB-A	QC3.0 18Max
Type-C Output	PD3.0 Unidirectional 100W
Shutdown Current	< 500uA
Operating Temperature	-10 ~ 40°C
Environmental Humidity	≤90%RH
Cyclic Charging	> 6500 Times

Battery Specifications

Type	40135 Lithium Iron Phosphate
Single-cell battery rated voltage	3.2V
Single-cell battery rated capacity	20Ah
Rated voltage of the battery pack	48V
Output voltage range of the battery pack	40V~54V
Rated capacity of the battery pack	3840Wh

After-Sales Card

After-Sales Card	
Name	
Address	
Phone	
Email	
Brand, Order Number	
Purchase Date	
Fill in the Date	
Description of Fault	
Please complete the above information in full	

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

- If there are quality issues within normal usage range, we provide warranty service.
- After purchasing our company's product, please keep the product together with the invoice and other related items. If repair service is needed, please provide the required documents according to our company's specifications.
- If the warranty certificate is damaged or altered, and there is no official stamp from the selling store on the warranty certificate, warranty service will not be provided.
- Damages caused by exceeding normal usage parameters are not covered by the warranty service.
- The content within the scope of the warranty is subject to approval by our company.
- Even within the warranty coverage, there may be instances where a product with similar functionality is provided. Shipping and repair costs for products outside the warranty coverage are the responsibility of the customer.
- At times, product specifications and features may be updated without prior notice.

Disclaimer

Before using, please read the user manual of this product to ensure a complete understanding for correct usage. After reading, please store the manual safely for future reference. Failure to operate this product correctly may cause serious harm to yourself or others, leading to product and property losses. Once using this product, it is considered that you have understood, accepted, and agreed to all the terms and content of this document. Users commit to being responsible for their actions and all consequences arising from them. Our company is not liable for any losses incurred due to users not following the product manual.

In compliance with legal regulations, our company reserves the ultimate right to interpret all documents related to this document and the product. In the event of updates, revisions, or termination, no separate notice will be provided. Please visit our official website for the latest product information.