



Affordable. Reliable. Home Improvement.

2400W SMART BATTERY PACK

Model:Q2400BP

VEVOR Support Center



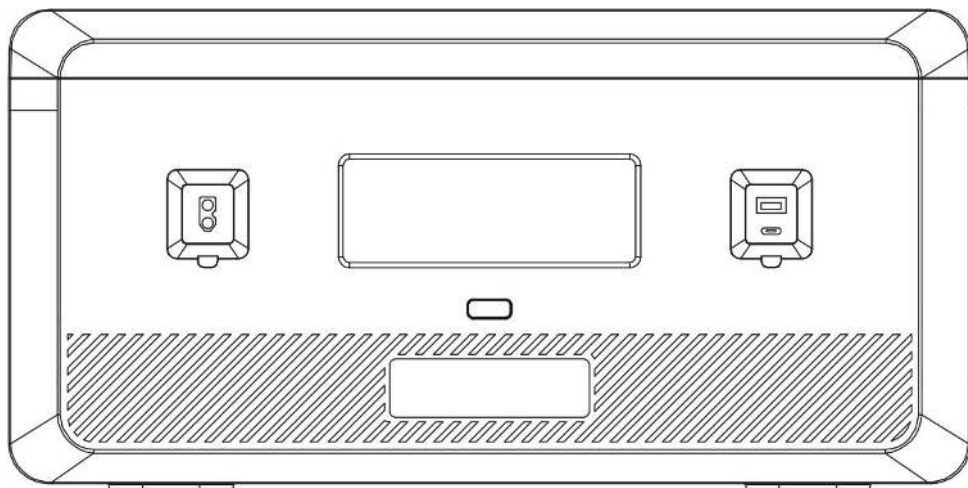
Q2400BP

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MODEL:Q2400BP



This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.

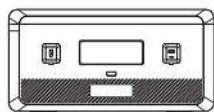
Dear Sir, thank you very much for purchasing and experiencing the Q2400BP Smart Battery Pack product. This product needs to be used in conjunction with the Q2400PRO. Before using this product, please read the instructions carefully for correct operation.

According to the transportation requirements of battery products, this product has less than 30% of power left when it leaves the factory. Please fully charge the product after unpacking it and start your Q2400BP experience journey

PRECAUTIONS FOR USE

1. Please avoid long-term storage and use of this product in environments with high temperature and humidity or direct sunlight to avoid shortened battery life and other failures. The product should not be placed near a heat source as it may lead to serious fires or accidents.
2. It is strictly prohibited to be disassembled or modified. Improper operation may cause product malfunction or even fire.
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 out of the reach of children, otherwise the product may be dropped or collided and may cause bodily injury to children.
5. Please use our original accessories, will not guarantee the defective products 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 Cause 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 energy 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. In order to prolong the life of the product, please take three months as a cycle, operate and keep it in this way.
8. If the product reaches the end-of-life condition, please dispose of or recycle the product according to local laws regulations.

Packing List



Smart Battery Pack



AC Cable



User Manual



XT90 to MC4

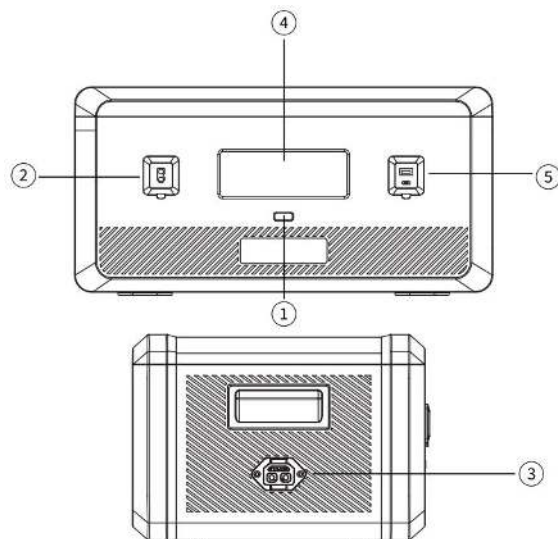
Product Introduction

This product is a portable power pack with charging/discharging functions. It is mainly used for parallel expansion of Q2400PRO energy storage power supply. It contains USB DC output interface, XT60 solar charging input port, parallel input and output port.

The following are the main features of this product:

- It uses lithium iron phosphate battery cells with a battery energy of up to 2160Wh and extremely high safety.
 - It can be paralleled with Q2400 Pro energy storage power supply to increase the capacity of Q2400Pro.
 - There are USB-A and Type-C PD3.0 output that can be used in non-parallel state.
 - With PV charging function, it can also be charged in non-parallel state.
- Multiple protection mechanisms such as battery, circuit, structure, etc. escort the safety of the product.

Button Function Introduction



- ① Power ON/OFF Button (long press)
USB ON/OFF Button (short press)
- ② XT60 Input
- ③ Parallel Input and Output
- ④ LCD Screen
- ⑤ USB Output

①Power ON/OFF Button (long press)

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

②XT60 Input

This interface supports solar panel input or car charger input. For details, please refer to page 8 of this manual, “Solar Panel Connection,” and page 9, “Car Charging.”

③Parallel Input and Output

The expansion is achieved by connecting to the host via a parallel cable. The interface can achieve a maximum input/output of 2800W.

④LCD Screen

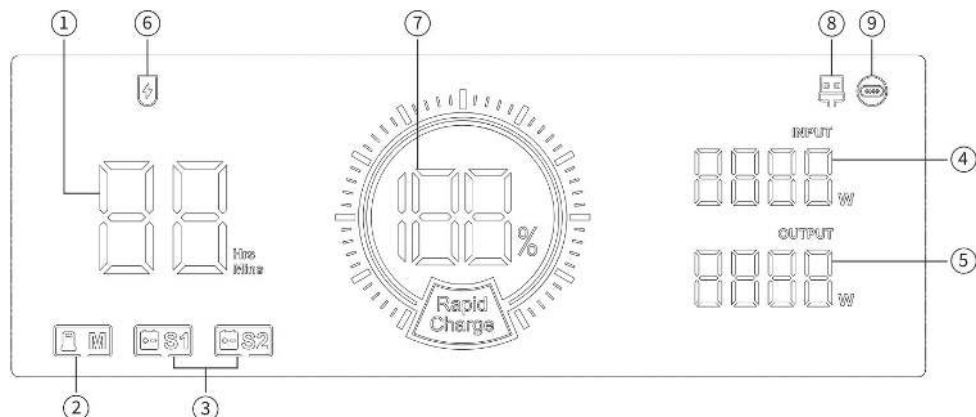
Display product battery level and usage status prompts.

⑤USB Output

USB output port

	
USB-A×1	TYPE-C×1
QC 3.0	PD 100W

Introduction of Display Interface



- | | | |
|----------------------------------|-----------------------|-----------------------|
| 1. Remaining usage/charging time | 4. Total input power | 7. Battery percentage |
| 2. Host indicator | 5. Total output power | 8. USB output |
| 3. Slave indicator | 6. XT60 input port | 9. PD output |

Screen display description

Power display: When the product is in the charging state, the power progress bar rotates clockwise in the form of a marquee, and the power percentage gradually increases; when the product is in the discharging state, the power percentage gradually decreases until it reaches 0.

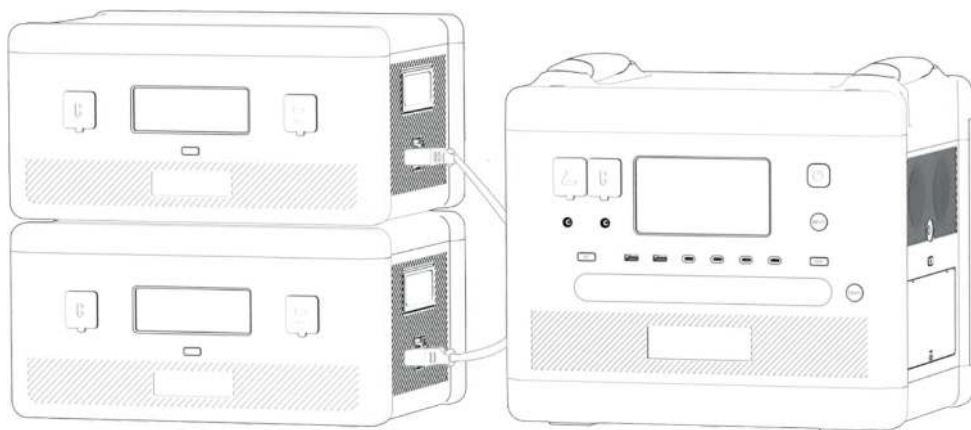
Input and output status: When the product is working, the total input power, total output power and the cursor of the corresponding working area will be displayed on the screen.

Alarm prompt: See the following troubleshooting table for details.

Introduction of Display Interface

Phenomenon	rationale	Treatment
 Any of the above output icons blinks and beeps.	overload/ short circuit	Remove the load, and press the switch in the corresponding area of the icon, to clear the alarm.
 Flashing of the Temperature warning icon, Beeping.	The temperature of the product is too high or too low	Remove the product from the charging state, and remove all loads, turn the power supply OFF, wait for the unit to return to a suitable operating temperature, to clear the alarm
 Parallel blinking.	parallelism failure	Charge the low battery unit or discharge the high battery unit (until the difference is less than 80%), and reconnect.

Battery Pack Connection Instructions



The host can connect up to two battery packs through the parallel line, with a maximum capacity of up to 11520wh. Please connect the product when the host and battery pack are turned off. After the connection is completed, the S1 and S2 connections will be displayed on the display. After the parallel connection is successful, the system can start charging or discharging. When charging and discharging after parallel connection, the charging and discharging power will be allocated according to the amount of electricity.

When charging, the charging power is small when the electricity is high, and the output power is large when the electricity is high when discharging. After the parallel connection is successful, if there is no external charging, the host and the slave may exchange energy, and the display will show the power.

Precautions

- It is forbidden to plug or unplug the parallel cable when the product is working. Please connect or disconnect the product when the product is turned off.
- It is forbidden to short-circuit the parallel port of the host.

Connection of Solar Panels

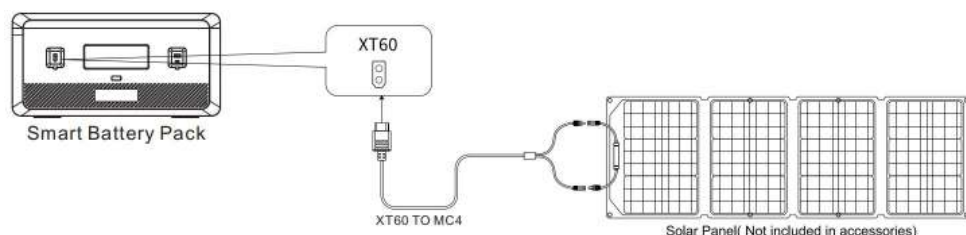
Under the condition of sunlight, this product can be connected to the solar panel and realize charging of the product. The charging power is determined by the conditions such as sunlight and weather.

Under this charging mode, we support solar panel input within 200W, and the input voltage cannot exceed 48V, otherwise the product abnormality caused is not covered by the warranty. We recommend the following two charging solutions:

- Solar panel charging

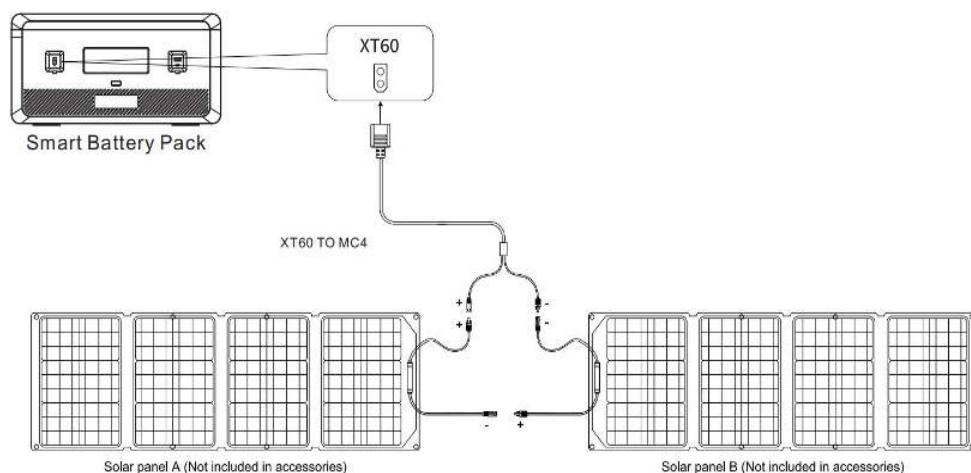
Option one

Portable Power Station Charging Area



Option two

Portable Power Station Charging Area



Car Charging

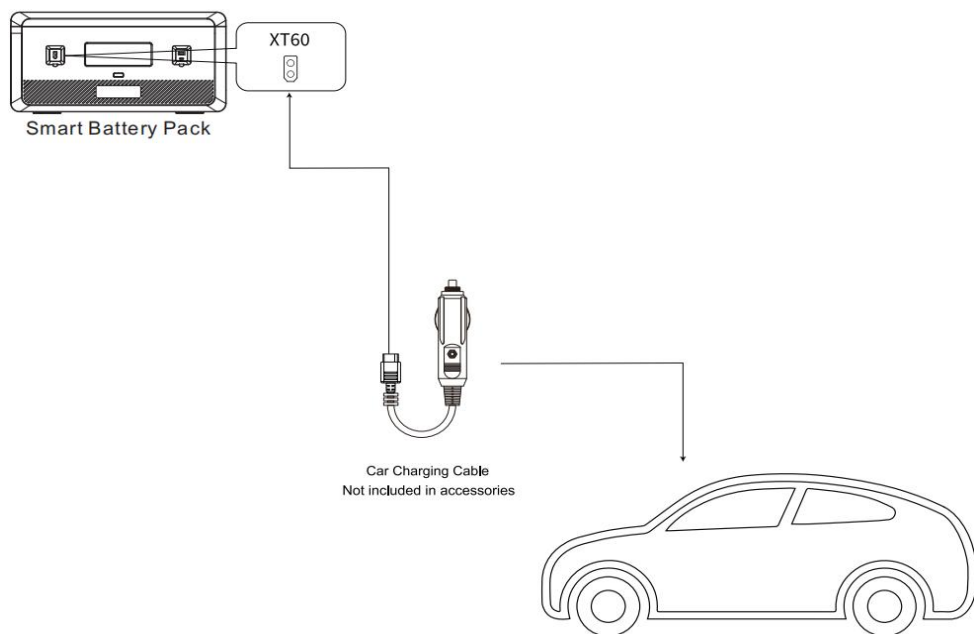
When the car is starting, connect the car charger port on the car and this product through the car charging cable to charge this product. The connection method is shown in the figure.

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

※Please do it when the car is started, otherwise the car battery may be exhausted.

※The charging power of the car is usually in the range of 90W-120W, and the charging time is longer.

If fast charging is required, it is recommended to use AC wall socket to charging.



Product Specifications

Product Name	Q2400BP 2400W Smart Battery Pack
Product Size	L*W*H=386.5*274*195mm
Product Weight	12kg
Battery Capacity	2160Wh
XT60 Input	12-48V 200W max
USB-A	QC3.0 18W Max
Type-C output	PD3.0 output Unidirectional 100W
Shut down Current	<500 μ A
Operating Temperature	-10~40℃
Environmental Humidit	≤90%(RH)
Cycle Life (computing)	>3500 times

Battery Specifications

Cell Type	LiFePo4
Rated Voltage of Single Battery	3.2V
Rated Capacity of Single Battery	15Ah
Battery Pack Rated Voltage	48V
Battery Pack Output Voltage Range	36V-54V
Rated Capacity of Battery Pack	2160Wh

Disclaimer

Before use, please read the user manual of this product to ensure that you fully understand it before using it correctly. After reading, please keep the manual properly for future reference. If you do not operate this product correctly, you may cause serious harm to yourself or others, or cause product loss and property loss. Once you use this product, it is deemed that you have understood, recognized and accepted all the terms and contents of this document. The user promises to be responsible for his own behavior and all consequences arising therefrom. Our

company does not bear any losses caused by the user's failure to use the product in accordance with the "User Manual".

In compliance with legal provisions, our company has the final right of interpretation of this document and all related documents of the product. If there is any update, revision or termination, no further notice will be given. Please visit our official website for the latest product information.

	FCC Information: CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment! This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1) This product may cause harmful interference. 2) This product must accept any interference received, including interference that may cause undesired operation. WARNING: Changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the product. Note: This product 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 product 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 product does cause harmful interference to radio or television reception, which can be determined by turning the product off and on, the user is encouraged to try to correct the interference by one or more of the following measures.
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	· Reorient or relocate the receiving antenna. · Increase the distance between the product and receiver. · Connect the product to an outlet on a circuit different from that to which the receiver is connected. · Consult the dealer or an experienced radio/TV technician for assistance.
	CORRECT DISPOSAL This product is subject to the provision of European Directive 2012/19/EU. The symbol showing a wheeled bin crossed through indicates that the product requires separate refuse collection in the European Union. This applies to the product and all accessories marked with this symbol. Products marked as such may not be discarded with normal domestic waste, but must be taken to a collection point for recycling electrical and electronic devices.
 Li-Ion	BATTERY DISPOSAL To minimize hazards to health and the environment at the end of this product's life, laws dealing with Waste Electrical and Electronic Equipment (WEEE) and The Waste Battery Directive require you to dispose of this product at a suitable collection facility where it will be sent in order to remove the batteries and for appropriate recycling. Please contact your local authorities for more details on recycling and safe disposal of these in your area.

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