

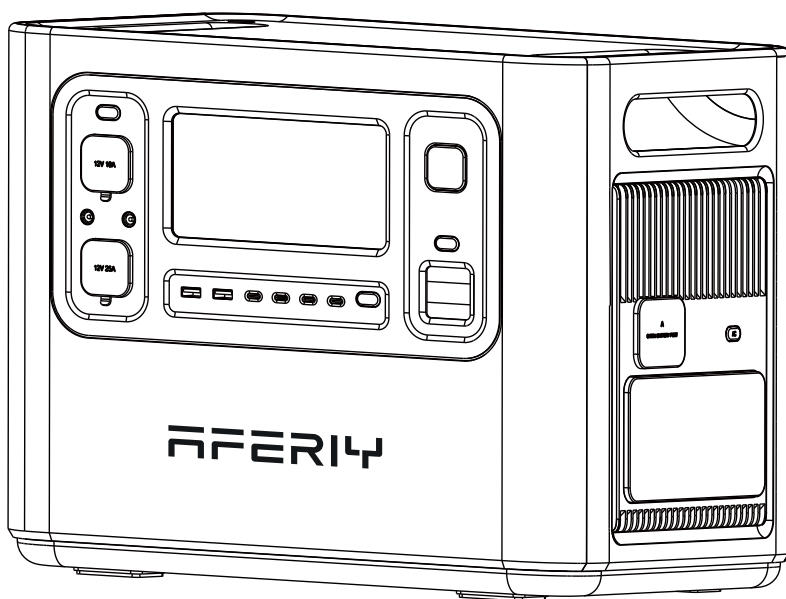
AFERIU

Haven3000

Portable Power Station

AF-P300 | User Manual

3000W



Hi dear, thank you very much for purchasing and experiencing the AF-P300 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 35% when it leaves the factory. Please fully charge the product after unpacking it to start the experience tour of AF-P300.

ComplianceDeclaration

Hereby, [Shenzhen Wodefeng Technology Co., Ltd.] declares that this product complies with the essential requirements and other relevant provisions of Directive 2014/53/EU (RED), 2014/35/EU (LVD), 2014/30/EU (EMC), 2011/65/EU (RoHS) and (EU) 2015/863.

This product complies with the safety requirements of EN 62368-1 for general safety protection of electrical and electronic equipment

This equipment complies with EU RF exposure limits for general population (uncontrolled environment). This device should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

WARNING

1. Risk of short circuit, fire or battery explosion. This device contains a built-in non-removable lithium battery. Do not attempt to remove or replace the battery. Forced battery removal causes cell rupture, liquid leakage & fire. Forbid user self-disassembly/self-repair. Only professional technician can maintain product.

2. Water ingress causes short-circuit & overheating. Keep it dry at all times. Keep away from liquid & damp condition.

3. Blocked ventilation causes overheat & fire. No covering product during charging/working.

4. High ambient temperature triggers battery swelling/ignition. Do not place the product in high-temperature environments, direct sunlight, closed vehicles or near fire sources.

5. Out-of-range temp accelerates battery deterioration & fire risk. Charging Temperature: 0°C - 40°C, Discharging Temperature: -10°C - 40°C. Do not charge or use the product outside this temperature range.

6. Unapproved chargers may cause overheating, fire or damage. Only use certified and compliant power adapters to charge this device.

7. This product is not intended for use by children without adult supervision.

8 This fixture must be permanently connected to protective earth (ground). Failure to ground may cause electric shock.

DANGER

1. Electrolyte liquid is corrosive, damages skin & ocular tissue. In case of battery liquid leakage, avoid contact with skin and eyes. If contact occurs, rinse immediately with clean water and seek medical help if necessary.

2. Impact damages internal lithium cell, result in leakage/ignition. Do not drop, squeeze or subject the device to strong mechanical impact.

3. Abnormal status means hidden fire/explosion risk. Do not use the product if it emits abnormal odor, overheats, bulges or deforms. Keep it away from flammable objects.

CUATION

1. Continuous high power output brings high surface temperature, scald & fire risk. Slight temperature rise during high-power output is normal. Do not place the product close to human body or flammable materials while working at high power.

2. Abnormal electric parameters may damage connected equipment without protection The product is equipped with over-current, over-voltage, short-circuit and over-temperature protection. The output will automatically shut down when abnormal conditions are detected.

3. Over-discharge during storage accelerates cell failure & bulging. Long-term storage shall be kept at 40%–60% power level. Recharge the device every 3 months to maintain battery performance and safety. Storage temperature -20 °C to 45 °C.

WEEE

This electronic product and battery shall not be disposed of with household waste. Please follow local regulations and deliver it to a designated electronic waste and battery recycling collection point.

Manufacturer Details

Shenzhen Wodefeng Technology Co., Ltd.

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Packing List



Portable Power Station



AC Charging Cable



User Manual



MC4-XT90

Product Introduction

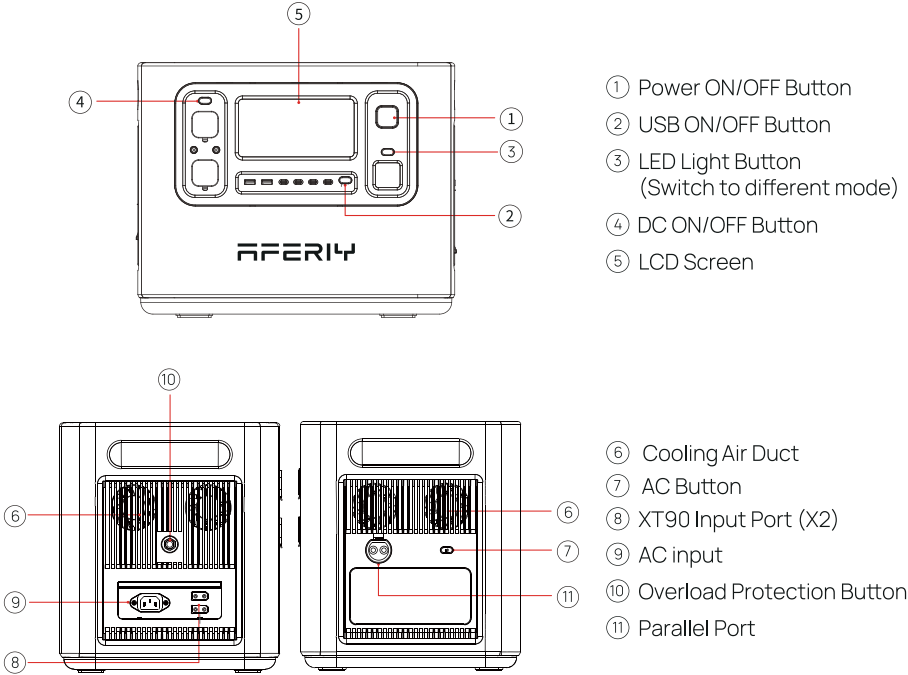
This product is a portable power device with a built-in battery pack with charge/discharge function. It includes both AC output interface and DC output interface such as USB output, cigarette lighter output, DC output, etc. It also has functions such as display, interface control, protection, and alarm. Moreover, this product can be charged by mains AC, solar panels and vehicle charging.

The following are the main features of this product:

- Equipped with LiFePo4 battery, the battery capacity is as high as 2048Wh, and the safety level is extremely high.
- 2800W pure sine wave AC output can meet almost all daily electronic equipment and small household appliances.
- Two-way fast charging technology is adopted to fully charge the product within 1.5 hours.
- A great variety of output interfaces such as USB-A, Type-C PD3.0, DC5521, XT60, cigarette lighter output, etc., meet many different application scenarios.
- In UPS mode, the switchover time is less than 10ms which is truly seamless switching.
- IP54 waterproof grade, all interfaces are designed with dust-proof and water-proof.
- Multiple protection mechanisms such as battery, circuit, structure, etc., guarantee the product safety.



Button Function Introduction



❶ Power ON/OFF Button

Instructions: Press and hold the power button for 3S to wake up the system, turn on the LCD display, and press and hold again for 3S to turn it off.

❷ USB ON/OFF Button

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

		
USB-A X 2	TYPE-C X 2	TYPE-C X 2
5V 2,4A	PD-20W	PD-140W

❸ Light Button

Instructions: Short press the Light button, the LED lights are all on; short press again, the LED light enters the SOS mode, short press in turn, enter the strobe mode, and finally the LED light turns off (LED in any mode , long press the light button for ≥ 1 second directly turn off the LED light).

④ DC ON/OFF Button

Instructions: Short press the DC button to turn on the DC output port, and short press again to turn it off.

 Dcoutput X 2 12V/3A	 Cigarette port X 1 12V/10A	 XT60 X 1 12V/25A
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⑤ LCD Screen

Display the product's battery level and usage status tips.

⑥ Cooling Suction/Exhaust Port

When the product reaches the temperature threshold set by the system, the cooling fan will automatically run, accompanied by a cert-ain 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.

⑦ AC Button(AC output port, the sum of electrical load power should be <3000W)

Tap the AC button to enable the AC output function.

The needed AC input power may vary in different time periods. If the input power needs to be switched, the operations are as follows: Press and hold AC button for 10s to enter the power switching mode, the display screen will show the input power setting interface in which the switched input power can be set; stay at the input power interface of current settings for 5s, the system will automatically save the input power of current settings and go to the main interface. The input power can be set at 5 grades: 600W/900W/1200W/1500W/1800W.

⑧ XT90 Port

This interface supports solar panel input or car charger input. For details, please refer to "Solar Panel Connection" on page 9 of this manual and "Car Charging" on page 10.

⑨ AC Input

To charge the product by a household socket can achieve 1800W fast charging. It only takes 1.5 hours to fully charge from 0 to 100%. When charging in this way, please pay attention to the following points:

- * 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.

⑩ Overload Protection Button

When the power supply current is unstable due to lightning or other reasons, and there is a large current input at the AC Input, in order to protect the product, the overload protection function (safety circuit breaker) will activate and cut off the AC input port.

Please follow the sequence below to restore the AC input function:

- 1) Turn off the power button and unplug all ports.
- 2) After confirming that there is no abnormality in each part, turn on the power button.
- 3) Press the overload protection button, connect the AC Cable to restore the AC input.

⑪ Parallel Port

Capacity expansion can be achieved by connecting parallel cables to the portable power station. This interface supports a maximum input/output power of 4608W.

Download Method

Method 1:

Scan the QR code on the right.

Method 2:

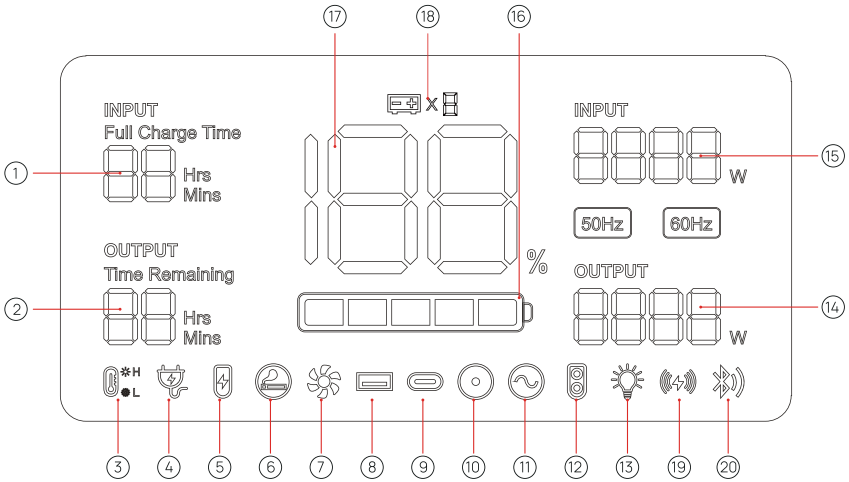
Search for "AFERIY" in the App Store (iOS)
or in other mobile app stores.

Method 3:

Open a browser and search for the website:
"<https://new.wodefengpower.com/download>"



Introduction of Display Interface



- | | | |
|-----------------------------------|---------------------|-------------------------------|
| ① Recharging Time | ⑦ Fan Status | ⑭ Output Power in Total |
| ② Remain Using | ⑧ USB Output | ⑮ Input Power in Total |
| ③ High/Low Temperature Protection | ⑨ PD3.0 Output | ⑯ Battery Progress Bar |
| ④ Connected to the AC Mains | ⑩ DC (12V) Output | ⑰ Battery Level Percentage |
| ⑤ XT90 Input | ⑪ AC Output | ⑱ Parallel Operation Quantity |
| ⑥ Cigar Lighter (12V) Output | ⑫ XT60 (12V) Output | ⑲ Wi-Fi Connection |
| | ⑬ LED Light | ⑳ Bluetooth Connection |

Screen Display Description

Battery power display: When the product is in charging state, the battery progress bar jumps while displaying the battery power level, and the percentage gradually increases; when the product battery power is 0, the battery 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.

Troubleshooting Table

Phenomenon	Cause	Processing method
 The above output icon flashes and beeps.	The output exceeds the standard and it's short-circuited.	Remove the load, and then short press the switch in the area corresponding to the icon to remove the alarm
 The temperature warning icon flashes and beeps.	The temperature of the product 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 overload protection function is activated	1. Turn off the power button and unplug all ports 2. After confirming that there are no faults in each part, turn the power switch back on. 3. Press the overload protection button, connect the AC cable to restore the AC input
	The charging voltage is insufficient.	Press the power button to use the device normally. However, if you need to charge the product, please check that the input voltage is within the specified range of the charging port.
 Parallel System Flashing	Parallel Operation Failure	Charge products with low battery capacity, or discharge products with high battery capacity (until the SOC difference is below 80%), then reconnect them.
 The screen displays "180%"	BMS communication error.	Please try restarting it, or it may need to be sent to an after-sales service point for inspection.
The screen displays "181%"	Photovoltaic panel communication error.	
The screen displays "182%"	AC control board communication error.	

Notes:

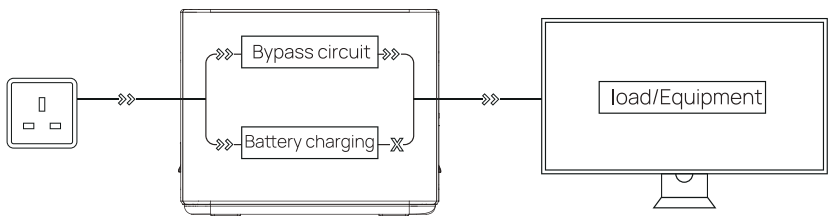
1. The inadequate light at sunrise or sunset will cause the output voltage to rise or fall suddenly, which may lead to the relay repeatedly switching between the "ON" and "OFF" states until the sunlight recovers its intensity. It is recommended to actively disconnect the solar energy input after sunset and manually connect the solar energy input after sunrise. This operation can both avoid the trouble of the relay continuously making the "ON" sound and reduce the power consumption of the product. Meanwhile, weak photovoltaic conditions may cause screen flickering issues.
2. When the relay is turned on, a blue LED indicator will be "ON" in the product, of which the blue light will penetrate through the ventilation opening at night. This is a normal phenomenon.
3. The long transportation may lead to deviation of displayed battery capacity with actual battery capacity at the first application. Before normal use of the product, you need to charge the product to 100% battery capacity, then discharge the product to automatically turn off and recharge to 100% battery capacity.
4. The product has low-temperature charge and discharge protection functions. At the environments below 0°C, the product will stop charging and continue the normal charging until its temperature recovers.
5. "Energy-saving mode" is enabled by default: If there is no input or output, the product will automatically turn off all switches after a set time (AC and DC switches are set to 8H, USB switches to 3min, and the main switch will turn off after 5min if none of the three switches are activated). The power consumption of the product itself may cause error in power collection if the output power is small, as a result, the displayed output power is 0, and automatic shutdown may occur after a period of application. To disable "Energy-saving mode" and enable "Always-on mode", press the DC button 10 times consecutively. To restore "Energy-saving mode", press the DC button 10 times again or restart the product.
6. The product has smart charging protection function. If the battery capacity reaches 70% in the process of charge, the charging power will automatically decline, which can raise service life of its battery.

UPS Mode

• UPS Feature

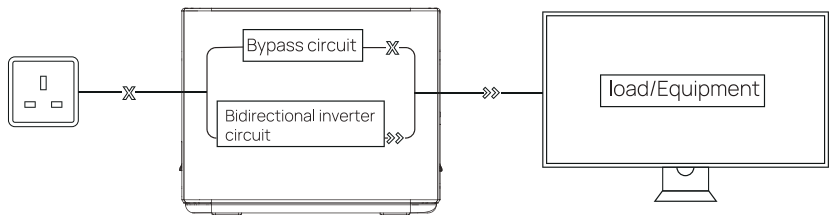
This product has the function of backup uninterruptible power supply. The usage and operation precautions are as follows:

As shown in Pic 1 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 operating state, the rated power of the appliance must be below 1500W (only 100V,JP), 1800W (only 110V-120V,US), 2400W (only 220V-240V), otherwise overload protection may be triggered.



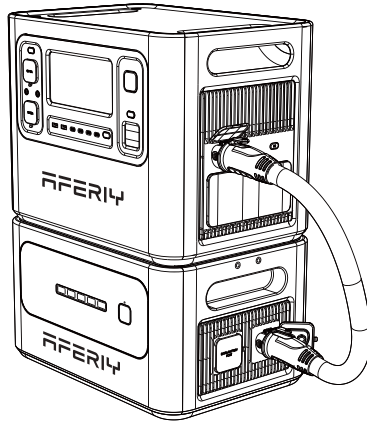
(Pic 1)

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



Portable Power Station (Base Capacity: 2048Wh) can be expanded by connecting up to 4 additional battery packs via parallel cables, with a maximum expansion capacity of 8192Wh. The total system capacity thus reaches 10240Wh.

Connection Procedure:

- 1.Ensure both the power station and additional battery packs are powered OFF before connection.
- 2.After connection, S1 and S2 icons will appear on the display.
- 3.The system will automatically initiate charge/discharge once successfully connected.

Power Distribution Logic:

- During charging: Units with lower State of Charge (SOC) receive reduced charging power.
- During discharging: Units with higher SOC deliver greater output power.
- Energy may transfer between units without external power input.
- Charging terminates when SOC levels equilibrate, with real-time SOC displayed.

Precautions

- Please do not insert or remove the connection cable during product use; connect or disconnect while both products are turned off.
- Do not short-circuit the connection ports of the portable power station.

Connection of Solar Panels

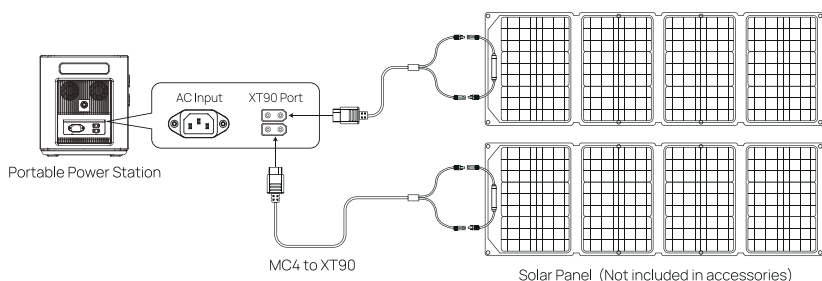
Under the condition of light, this product can be connected to the solar panel and getting charged. The charging power is determined according to the conditions of light and weather.

In this charging mode, each XT90 port supports a maximum of 600W. The two ports collectively support up to 1200W input from solar panels. The input voltage must not exceed 55V, otherwise any resulting equipment malfunction will not be covered under warranty.

- We recommend the following two charging schemes:

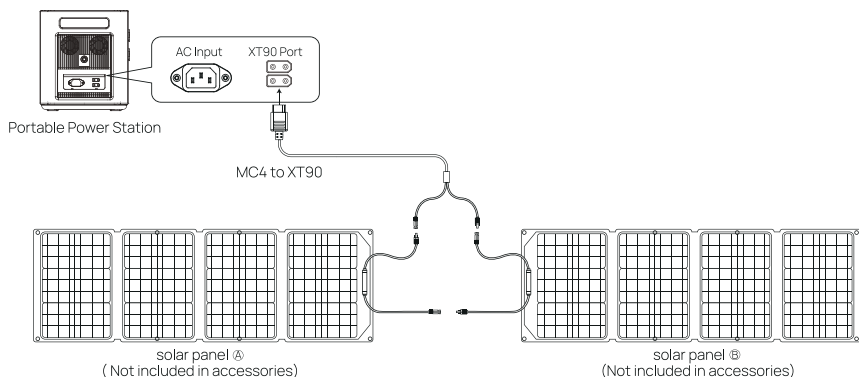
Scheme One

Portable Power Station Charging Area



Scheme Two

Portable Power Station Charging Area

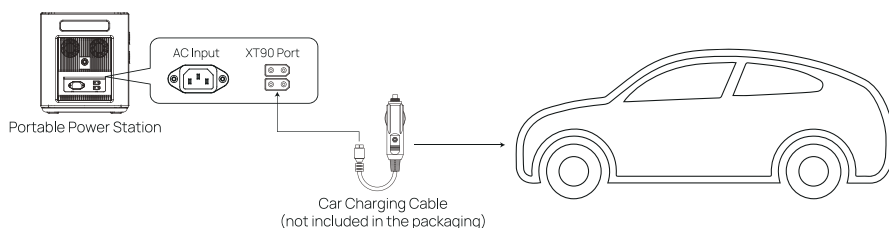


Car Charging

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 use it when the car started, otherwise the car battery may be exhausted.
- ※ Vehicle charging power is usually in the range of 90W-120W, and the charging time is long. If fast charging is required, the AC mains charging is recommended.



If you have any questions, please feel free to contact us.

Email address: support@aferyi.com.

Sincerely.

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. AFERIY is 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 the AFERIY official website for the latest product information.

Product Parameter

Product Name	3000W Portable Power Station
Dimension	L*W*H=398X280X315mm
Weight	21.6kg
Capacity	2048Wh
AC Charging	AC Mains Input, 1800W max
MPPT Input	(11.5-55V 20A below 600W max)×2
AC Output	50/60Hz (switchable), rated 2800W, pure sine wave with overload, short circuit protection
USB-A	(5V 2.4A)X 2
Type-C ①	(PD20W) X 2
Type-C ②	(PD140W)X 2
DC 5521	12V/3AX2
XT-60 Output	12V/25A
Car Charging Output	12V/10A
Shutdown Current	<500uA
Working Temperature	-10~40℃
Environment Humidity	≤90%RH
Cycle Times	> 4000 times

Battery Specifications

Cell type	40135 LiFePo4
Rated voltage of single battery	3.2V
Rated capacity of single battery	20Ah
Rated voltage of battery pack	51.2V
Output voltage range of the battery pack	43.2-57.6V
Rated capacity of battery pack	2048Wh

Warranty Card

Warranty Card	
Model	
Name	
Address	
Tel	
Mail	
Name of the store	
Buying 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.