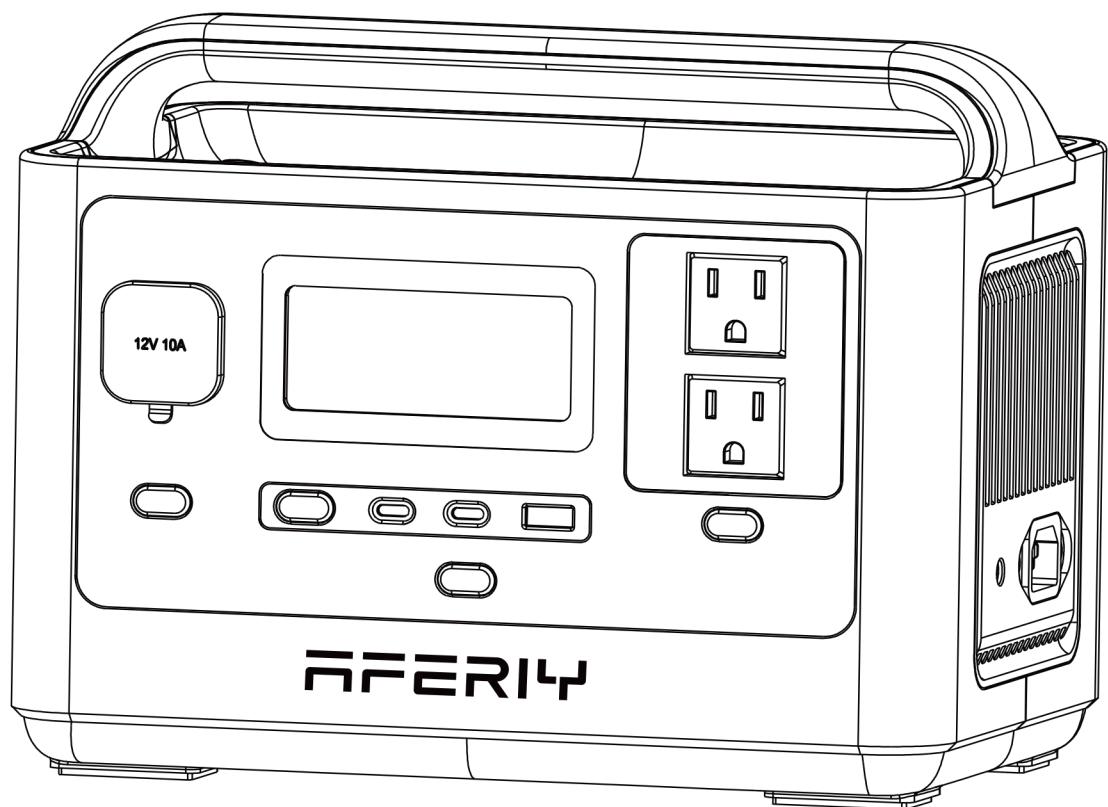


INTERIY

Portable Power Station

AF-P040 | User Manual

400W



Hi dear, thank you very much for purchasing and experiencing the AF-P040 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-P040

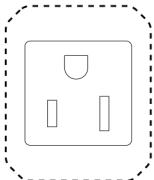
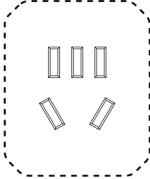
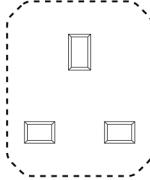
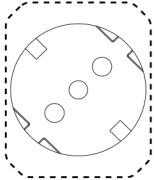
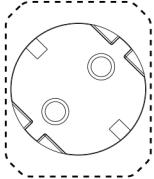
Precautions For Use

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 close to the fire source, otherwise it may cause a major fire or accident.
2. This product must not be disassembled or modified. Improper operation may cause product malfunction or even fire.
3. Be careful not to drop or drop the product from a high place, so as not to damage the product
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, and AFERIY 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 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.
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 scrap conditions, please discard or recycle the product in accordance with local laws.

Contents

• AC Output Parameter	01
• Packing List	02
• Product introduction	02
• Product Details	03
• Introduction of Display Interface	05
• UPS Mode	06
• Connection of Solar Panels	07
• Car charging	08
• Product Parameter	09
• Battery specification	09
• Troubleshooting table	10
• Warranty Card	11
• Disclaimer	12

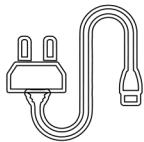
AC Output Parameter

Type of AC port	AC output
 US/JP	100V~120V 50Hz/60Hz
 CH	220V 50Hz
 UK	220V~240V 50Hz/60Hz
 EU	220V~240V 50Hz/60Hz
 KR	220V 60Hz

Packing List



Power Station



AC Charger



User Manual



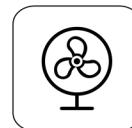
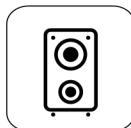
MC4 to DC5521 Plug
Charging Cable

Product Introduction

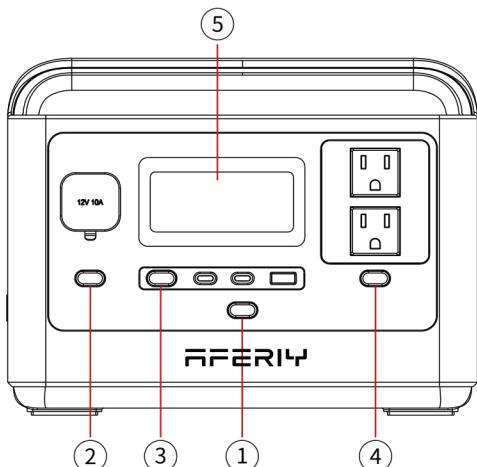
This product is a 256Wh large capacity 400W high power, 1.2 hours of high-speed charging portable energy storage power supply, using high safety performance of LiFePo4 battery.

It can be used as a backup power supply in case of emergency power cut, disaster, camping and vehicles, and can also provide power for various electronic devices.

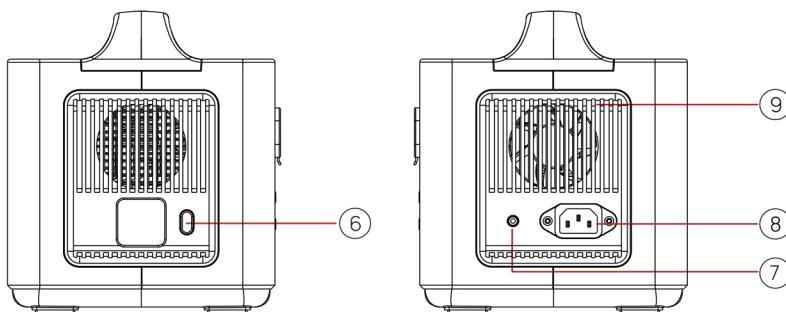
Through the 300W ultra-fast charging, this model can be full charged within 1.2 hours. The AC input/output voltage frequency can automatically switched between 50Hz/60Hz. This product also supports maximum 120W solar charge, allow you to charge even when the power cut or in outdoor situations.



Product Details



- ① Main power control
- ② DC control
- ③ USB control
- ④ AC on/off control
- ⑤ LCD display



- ⑥ Light control
- ⑦ DC5521 input port(for solar panel)
- ⑧ AC input port
- ⑨ Air intake/outlet

① Main Power Control

Main Control for the whole system turn on/off.

Operate method:long press the button for 3s to turn on/off the system.

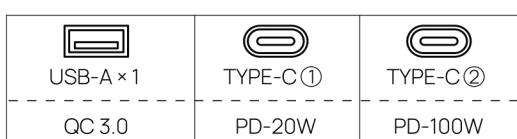
② DC button

Operate method:short press to turn on/off.



③ USB button

Operate method:short press to turn on/off.



④ AC button

Operate method:short press to turn on/off.

Notice: 1.Please confirm the output voltage or frequency before using.

2.Quick short press for 10 times to switch the voltage.

⑤ LCD display

Present the remaining power and using data.

⑥ LED light control

Operate method:short press to turn on and change the light mode (SOS/Flash).

Notice: you can turn off the light by long press the button(1-2s) in any mode.

⑦ Solar panel input

Use the DC5521 cable to connect the solar panel.

1.Solar panels can have a maximum input of 120W and a maximum voltage of 30V.

2.If exceeding the maximum voltage leads to equipment damage, it is beyond the scope of warranty

⑧ AC Input

Use wall socket to get 300W fast charging, which can full charge from 0 to 100% in 1.2 hours.

※The product can be charged directly by the wall socket, please do not use extension cords and cable taps. When the product is charging, do not plug other products in the same socket.

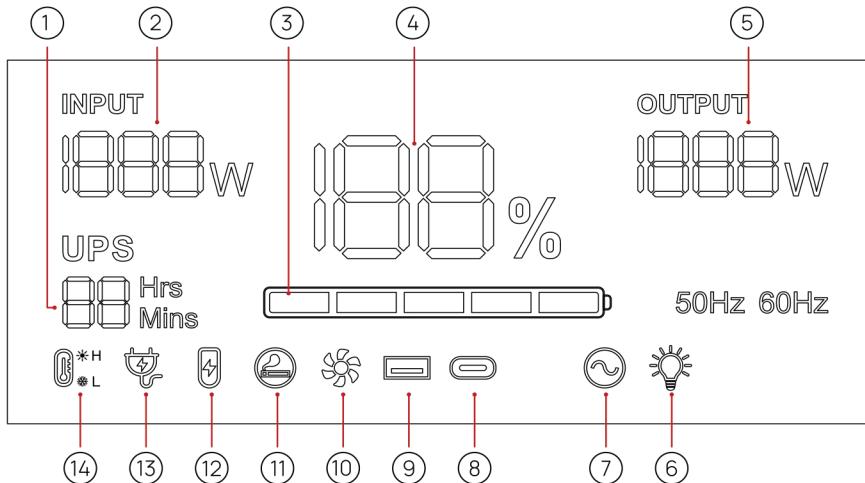
※Please do not plug several devices together in a extension socket at once, the current will be to high and bring damage to the cable and fire risk.

※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.

⑨ Cooling system

When the fan is working, please don't block the channel.

Introduction of Display Interface



① Charging/using time	⑤ Total output power	⑨ USB output	⑬ AC charging
② Total input power	⑥ LED light	⑩ Fan state	⑭ High/low temperature protection
③ Battery Progress Bar	⑦ AC output	⑪ Cigar lighter output	
④ Power percentage	⑧ Type-c output	⑫ DC5521 charging	

Display Attention



When this icon light up. Please keep Air intake/outlet unobstructed.



When this icon light up. Please note the device is now with high/low temperature and will possibly stop working till the temperature back to normal standard.



When this icon is blinking, represent that the AC input is fault, please recheck(Power/Hz/cable).



When the icon is blinking, represent the output is fault, please recheck.

UPS Mode

• UPS function

This product has the bypass mode, does not need to pass through the battery, can directly output from the AC.

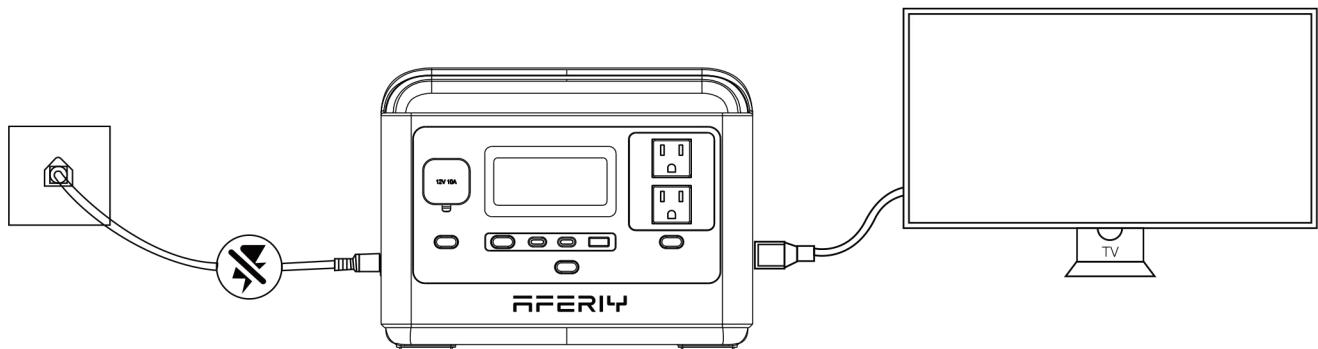
In UPS mode, when the AC input power of the mains is cut off due to a power outage, the ac input power of the mains can be used in about automatic switch to product battery power within 10 ms to ensure AC output.

• UPS Connections

As shown in the figure below, connect the product between the socket on the wall and the electrical appliances, and the power of the product is in the ON state. When you turn on the power of the electrical appliances, it will directly use the AC power of the power grid.

In this state, when the power grid is cut off, it will automatically switch to the product's internal battery to supply power.

※ In UPS mode, the maximum power output of AC is below 400W, and the AC output exceeds 400W. The AC output icon "⚡" blinks indicating overload.



Connection of Solar Panels

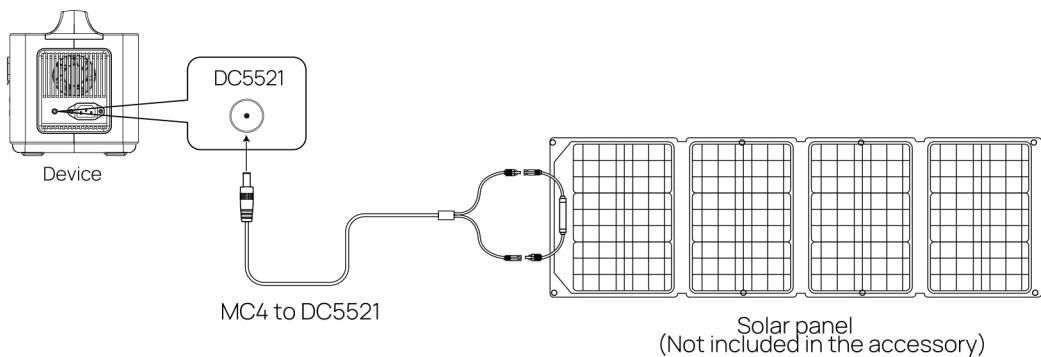
Under the condition of light, this product can be connected to the solar panel and getting charged. The charging power is determined according to the conditions of light and weather.

In this charging mode, we support solar panel input within 120W, and the input voltage cannot exceed 30V, otherwise the product abnormality caused by it will not be covered by the warranty.

- **We recommend the following charging schemes:**

Connecting Pattern

Portable Power Station Charging Area



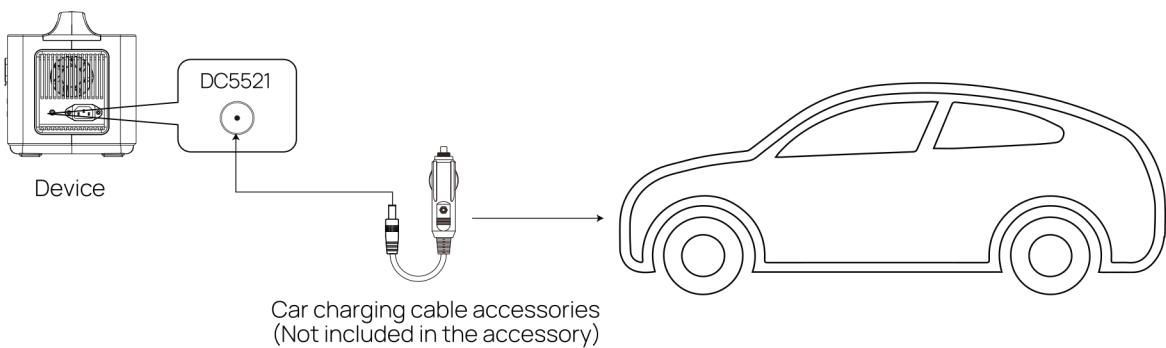
Car Charging

This product can be charged by the cigarette lighter in the car with an ACC cable (accessory: ACC hereinafter).

Turn on the power of this product, connect the ACC charging cable to the cigarette lighter in the car and the DC5521 interface on the side of the product, turn on the engine of the car, and the LCD of this product will show the input power.

※ On-board charging should be carried out with the car engine turned on. If the engine is not turned on, the battery might run out.

※ Car charging is usually low power of 90-120W, and the charging time will be long. If you need quick charge, it is recommended to use the mains.



Product Parameter

Product name	400W Portable Power station
Product size	L*W*H=259X174X201mm
Product weight	4kg
Capacity	256Wh
AC Charging	50/60Hz 300W max
MPPT input	11.5-30V 8A 120W max
AC output	400W 50Hz/60Hz,pure sine wave
USB-A output	(QC 3.0 18W)×1
Type-C① output	PD 20W
Type-C② output	PD 100W
Cigar lighter output	12V/10A
Power off current	< 500uA
Operating temperature	-10~40 °C
Charging temperature	≤90%RH
Environment humidity	-10~40°C

Battery Specifications

Battery type	40135 LiFePO ₄
Single cell rated voltage	3.2V
Single cell rated capacity	20Ah
Battery pack rated voltage	12.8V
Battery pack output voltage	10.5V-14.4V
Battery pack rated capacity	256Wh

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. Connect the AC cable to restore the AC input.

Notes:

1. The inadequate light at sunrise or sunset will cause sudden high or low output voltage, which may cause repeated switch of relay between "ON" and "OFF" status. As a result, the "ON" sound of the relay will continue all the time. It is recommended to actively disconnect the input of solar energy after sunset and manually connect the input of solar energy after sunrise. This operation can both avoid the trouble of continued "ON" sound of the relay and reduce power consumption of the product.
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. 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.
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.

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

Email address: support@aferiy.com.

Sincerely.

Warranty Card

Warranty Card	
Name	
Address	
Tel	
Mail	
Brand、Order number	
Buying date	
Fill in the 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.

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 correct-ly, 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.