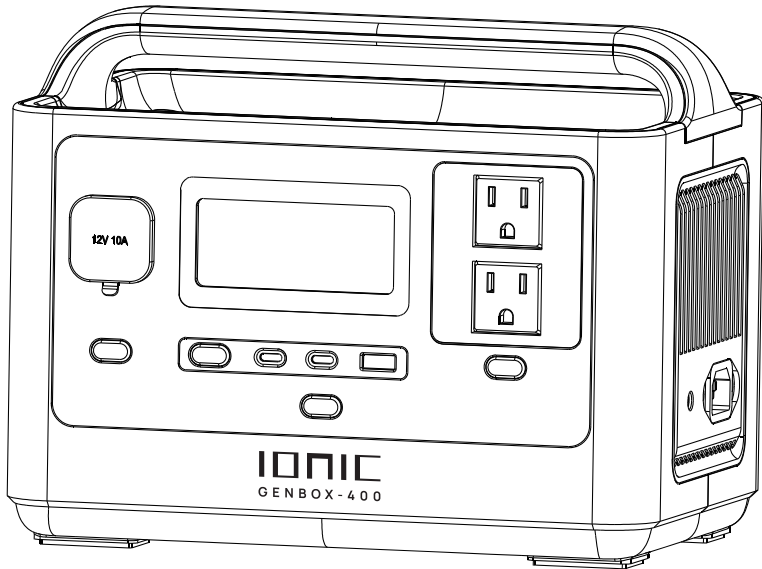


# IONIC

## Portable Power Station

GENBOX-400 | User Manual

400W



Hi there, thank you very much for purchasing and experiencing the GENBOX-400 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 prior to using of GENBOX-400.

## **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 a 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, so as not to damage the product.
4. Please store or use this product out of the reach of children.
5. Please use our original accessories. IONIC 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 discharge the product from a fully charged state to an uncharged state, then recharge it to about 50% of the battery level and store it. To prolong the life of the product, repeat this process every three months.
8. If the product reaches scrap conditions, please discard or recycle the product in accordance with local laws.

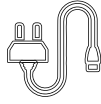
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# Packing List



Power Station



AC Charger



User Manual



MC4 to DC5521 Plug  
Charging Cable

# Product Introduction

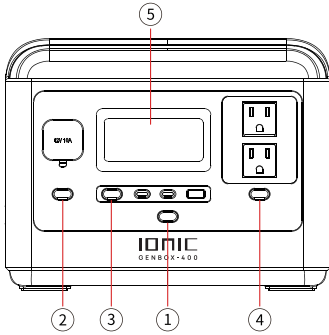
This product is a 256Wh large capacity 400W high power, 1.2 hours of high-speed charging portable energy storage power supply, using high safety performance of LiFePO4 battery.

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.

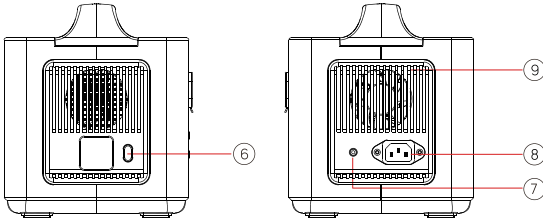
Through the 300W ultra-fast charging, this model can be fully charged within 1.2 hours, The AC input/output voltage frequency can automatically be switched between 50Hz/60Hz. This product also supports maximum 120W solar charge, allowing you to charge even when the power cut or in outdoor situations.



# 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.

		
USB-A × 1	TYPE-C ①	TYPE-C ②
QC 3.0	PD-20W	PD-100W

#### **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 fully 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.

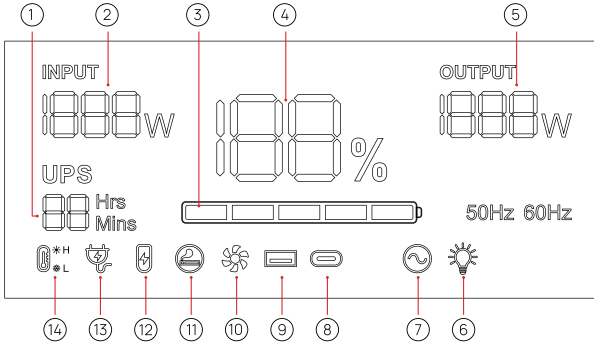
※ \* Please do not plug several devices together in a extension socket at once, the current will be to high and damage the cable and fire risk.

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

<b>Display Attention</b>	
	When this icon is lit up. Please keep Air intake/outlet unobstructed.
	When this icon is lit up. Please note the device is now with high/low temperature and will possibly stop working till the temperature back to norma standard.
	When this icon is blinking, this represents that the AC input is fault, please recheck (Power/Hz/cable).
	When the icon is blinking, this represents the output is fault, please recheck.

# UPS Mode

- **UPS function**

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

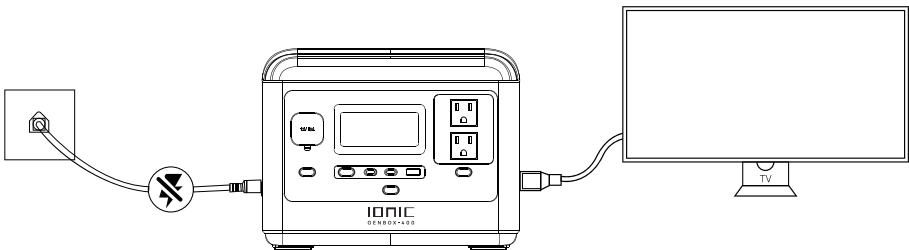
In UPS mode, when the AC input power of the mains is cut off due to a power outage, the ac input power of the mains can be used in the automatic switch to product battery power within 10 ms to ensure AC output.

- **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.

When the power grid is cut off, it will automatically switch to the products 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

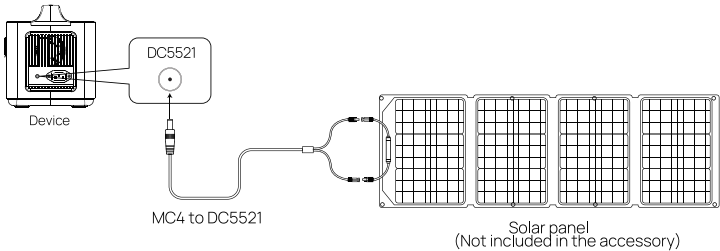
Under the condition of light, this product can be connected to the solar panel and be charged. The charging power is determined according to the conditions of light and weather.

In this charging mode, it supports 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






# 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)x1
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 <sub>4</sub>
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
 <p>The above output icon flashes and beeps.</p>	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
 <p>The temperature warning icon flashes and beeps.</p>	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.
 <p>The icon of connecting to the AC mains flashes and the product cannot be charged.</p>	The charging cable is poorly connected.	The overload protection function is enabled
	The overload protection function is activated	<ol style="list-style-type: none"> <li>1. Turn off the power button and unplug all ports</li> <li>2. After confirming that there are no faults in each part, turn the power switch back on.</li> <li>3. Connect the AC cable to restore the AC input.</li> </ol>

## 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 errors 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 the battery.

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

Email address: [info@lithiumhub.com](mailto:info@lithiumhub.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 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 responsibility for their own actions and all consequences arising therefrom. IONIC is not responsible for any 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 IONIC official website for the latest product information.