140mm

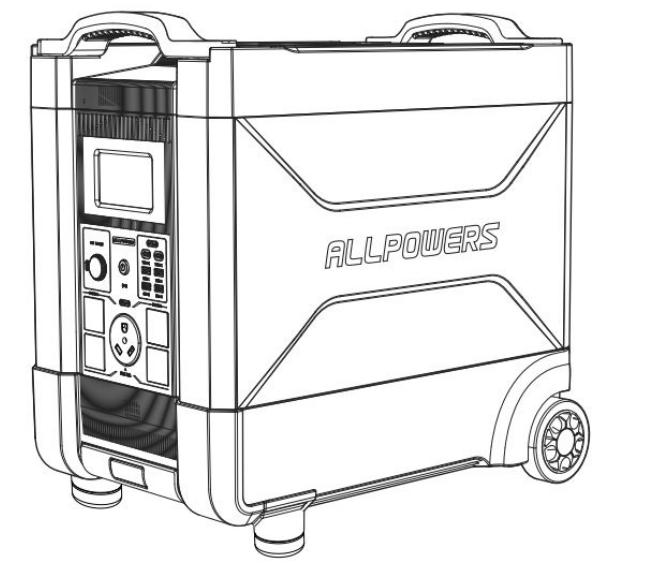
180mm

R4000 V3.0

ALLPOWERS®

Portable Power Station

Model:R4000



The products and materials described in this manual will be changed at any time due to technical upgrades. The company reserves the final right to change and explain the contents of the manual.

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1.Safety Instructions

This product is power station battery, be sure to take basic precautions including:

1. Be sure to operate the product in a dry and well ventilated place, and if it gets wet, dry it thoroughly before use.
2. To reduce the risk of injury, close monitoring is required when using this product near children.
3. Do not stick your fingers into the product, otherwise it may cause electric shock or other dangers.
4. Do not touch the AC interface with metal, otherwise it may cause electric shock, fire and other dangers.
5. During charging or using the product, do not block the product vents, otherwise it may cause permanent damage to the product.
6. Please do not expose the product to rain and snow.
7. It is forbidden to use this product in the environment of strong static electricity or strong magnetic field.
8. Please use the cable specially designed for the product, the company does not assume any responsibility for the damage caused by the third party equipment.
9. Do not disassemble the product at will. If this product needs service or maintenance, please find a qualified repairer.
10. Improper use, falling or excessive force may cause damage to the product.
11. When disposing of used batteries, please separate batteries of different electrochemical systems.
12. In case of fire, dry powder fire extinguisher can be used or immersed in water.
13. Be sure to keep the product away from fire and heat sources.

2.Specifications

General Info

Net weight: Approximately 45KG (106lbs)
Size: 540*490*300mm (21.25*19.29*11.81in)
Battery capacity: 3456Wh (48V⎓72Ah)
Wi-Fi: Supported
Bluetooth: Supported
UPS (uninterruptible power supply): Supported

Input Ports

AC: (100~120)V~15A / (220~240)V~10A Max
Solar*3: (12~60)V⎓13A, Single port 650W Max, three ports 2000W Max
AC+Solar: 3000W Max

Output Ports

AC : 100-120V Total output 3600W Max (peak 6000W Max)
220-240V Total output 4000W Max (peak 6000W Max)
USB-A*2: 5V⎓2.4A, Single port 12W Max
USB-A*2: 5V⎓3A,9V⎓2A,12V⎓1.5A, Single port 18W Max
USB-C*2: 5/9/12/15V⎓3A, 20V⎓5A, Single port 100W Max
Car port:12V⎓10A, 120W Max

Battery Info

Battery type: LFP Lithium Iron Phosphate
Protection type: High temperature protection, Low temperature protection, Over discharge protection, Over charge protection, Overload protection, Short circuit protection, Over current protection

Environmental Operating Temperature

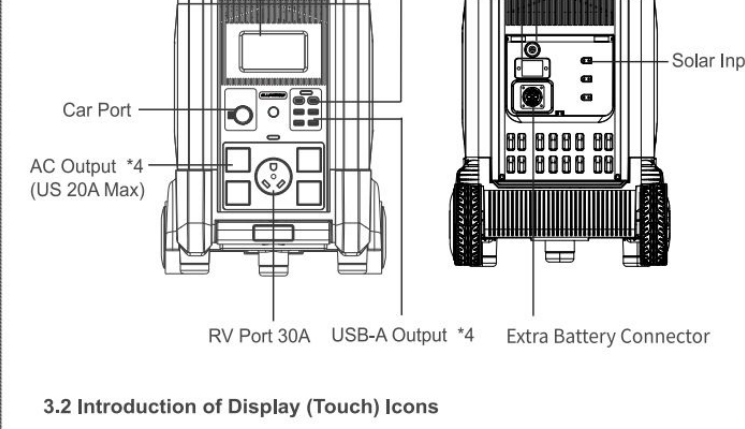
Charge Temperature: 0°C ~ 40°C (32°F ~ 104°F)
Discharge Temperature: -10°C~40°C(14°F~104°F)
Storage Temperature: -20°C~40°C(-4°F~104°F)*recommend: 20~30°C
Operating humidity range: 10 - 90%

Certification

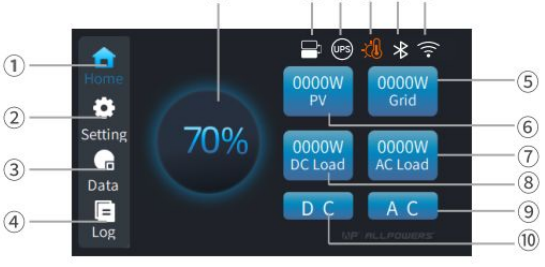
CE FC RoHS IC UKCA

3.User guide

3.1 Product appearance introduction



3.2 Introduction of Display (Touch) Icons



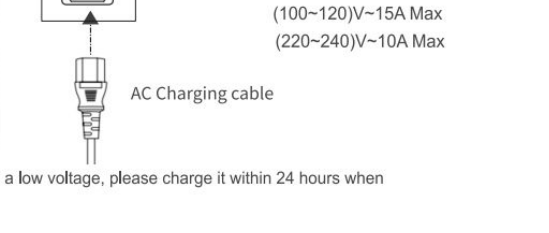
Number	Function Introduced
①	Home icon, touch it once to enter the home page display interface, you can view the current function status
②	Settings icon, touch it once to enter the setting interface, you can set the function; (see 3.9 for details)
③	Data icon, tap to enter the data interface, you can view the device model and version, etc.
④	Log icon, touch it to enter the log interface, you can view related faults
⑤	AC charging icon, real-time power display of device charging, touch the icon to view detailed parameters
⑥	Solar charging, solar charging real-time charging power, touch the icon to view detailed parameters
⑦	AC load icon, real-time display of AC output on-load power, touch the icon to view detailed parameters
⑧	DC load icon, real-time display of DC output on-load power, touch the icon to view detailed parameters
⑨	AC switch icon, touch it to turn on the AC output function
⑩	DC switch icon, touch to turn on the DC output function
⑪	Power icon, real-time display of current available power, touch the icon to view detailed parameters
⑫	Extra battery active
⑬	UPS active
⑭	High temperature warning icon
⑮	Bluetooth icon, displayed when Bluetooth is turned on
⑯	WIFI icon, displayed when WIFI is turned on

3.3 AC charging

The AC power of this product adopts AP-POWER fast charging technology, and the charging power can be adjusted through the AC charging Fast Mode/Standard Mode/Mute Mode. The maximum input of Fast Mode can reach 100-120V 1500W/ 220-240V 2000W ; the maximum input of charging in Standard Mode can reach 1000W; Mute Mode 650W (self-adjusting technology) to achieve mute. The default input power of custom charging is Mute Mode, and the charging power is adjustment needs to be set in the mode switch of this product.

When the AC input current continues to be abnormally larger than 15A (220V-240V) (100V-120V input current is larger than 32A), set the power station will protect itself, and the overload protector button will automatically pop up. After confirming that the product is not faulty, press the AC overload protector, charging can be resumed. When the AC input current is too high, it may cause the power protection switch to trip. After confirming that the product is not faulty, turn on power protection switch, the product resumes use.

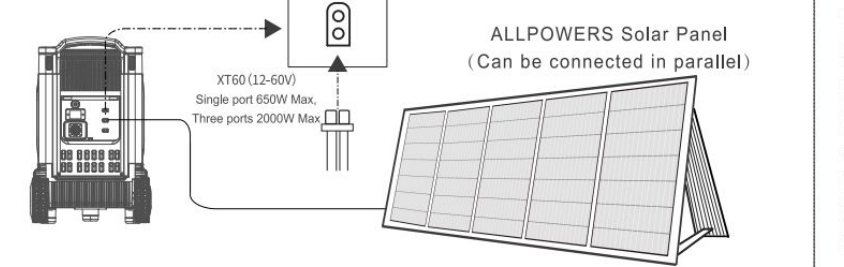
Please use the original standard AC charging cable of the product, ALLPOWERS will not bear any damage caused by the use of other unofficial charging cables bear any responsibility. Please connect directly to the wall power socket. It is not recommended to go through the extension power socket. At the same time, pay attention to whether the household line can last for 10A current.If the above conditions are not met, please switch to standard mode or mute mode for charging.



* To avoid the powerstation being in a low voltage, please charge it within 24 hours when the power is less than 5%.

3.4 Solar charging

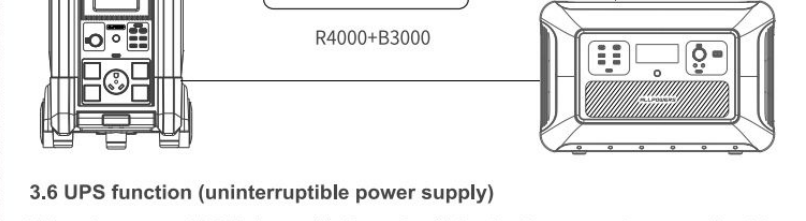
Users can charge the product by connecting solar panels in series as shown in the figure.



When using this product for solar panel charging, please connect according to the user manual specifications. Before connecting the solar panel, please confirm that the output specification of the solar panel corresponding to a single XT60 interface is within 60V to avoid damage to the product.

3.5 Smart Extra Battery

This R4000 power station can use two or more extra battery for expansion connection, which can meet the needs of larger capacity.
When using this product for extra battery connection, please connect it according to the specifications of the user manual.
Please note that in the connection state, the rated maximum output power does not change, only the battery capacity is superimposed.
Please use the connection cable provided by our company for connecting to avoid damage to the product.
Users can connect the power station capacity as shown in the figure below.

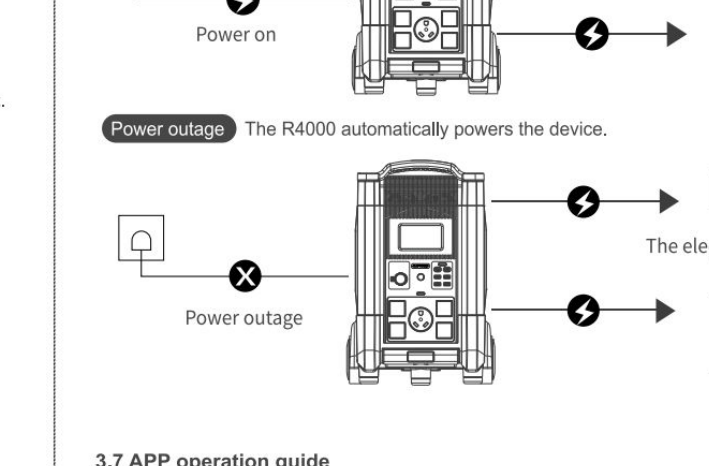


3.6 UPS function (uninterruptible power supply)

This product supports UPS (Uninterruptible Power Supply) function. You connect the power grid and the AC input port of this product through the AC charging cable, and the electrical appliance can use the AC output port of this product to work (at this time, the AC power comes from the power grid, not the battery). When After the power grid is suddenly cut off, this product can automatically switch to the battery power supply mode of this product within 15ms. It is recommended to use only one device during use, and do not use multiple devices at the same time to avoid overload protection of this product. If the power station fails to operate normally or data is lost if the operation is not in accordance with the instructions, our company does not assume the corresponding responsibility.
Note: 1.When AC charging and AC output active, the UPS function icon automatically lights up to activate the UPS function.
2. To ensure the UPS works, the maximum power of the AC output ports should not exceed 1500W when the mains voltage range is 100~120V; the maximum power of the AC output ports should not exceed 2000W, when the mains voltage range is 220~240V. Otherwise, the mains and the power station will supply power to the devices at the same time until the power station consumes to 5% of the power and turns off the AC output.

Normally When fully charged, the power grid supply directly supplies power to the device.

Power outage The R4000 automatically powers the device.



3.7 APP operation guide

3.7.1 APP download:

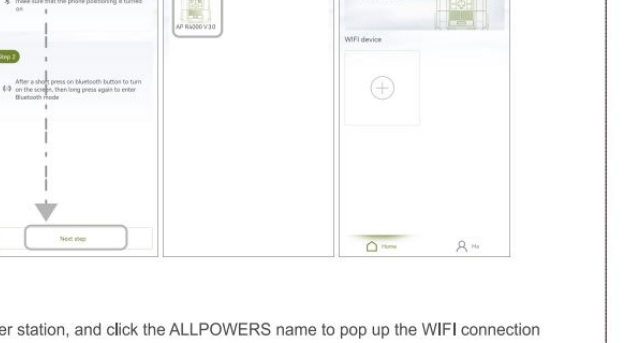
Use your mobile phone to scan the QR code below to download and install the APP

IOS

Android

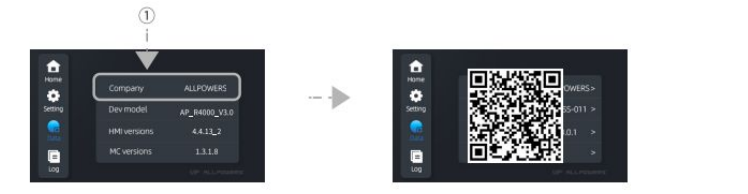
3.7.2 Bluetooth connection power station:

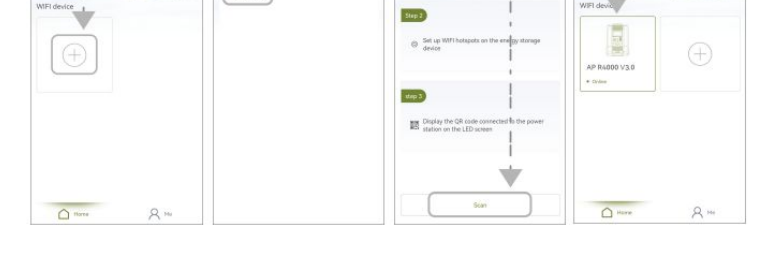
① Confirm that the power station and mobile phone Bluetooth are turned on;
②Click the ⊕ icon in the Bluetooth device bar on the mobile APP to enter the Bluetooth connection interface
③Click Next to scan and search for power station
④Select the corresponding power station and click to connect
⑤ After the connection is successful, AP R4000 V3.0 will be displayed in the Bluetooth device bar



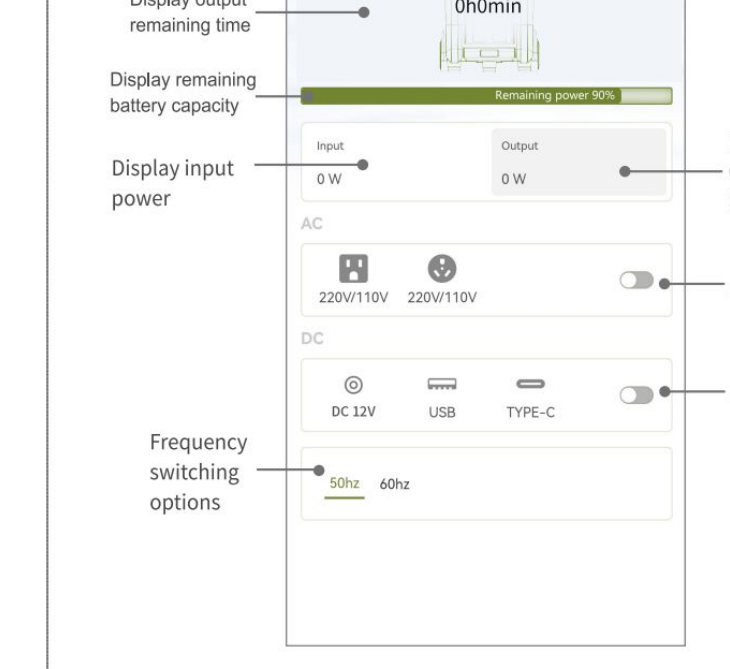
3.7.3 WIFI connection:

①Click the data on the power station, and click the ALLPOWERS name to pop up the WIFI connection QR code;
②Click the ⊕ icon in the WIFI device bar on the mobile APP to enter the WIFI connection interface;
③Select the portable power station to enter the connection page
④ Click Scan, scan the QR code on the device to connect and bind the device;
⑤ After the binding is successful, the name of the power station and whether the power station is online will be displayed as shown in the figure below.

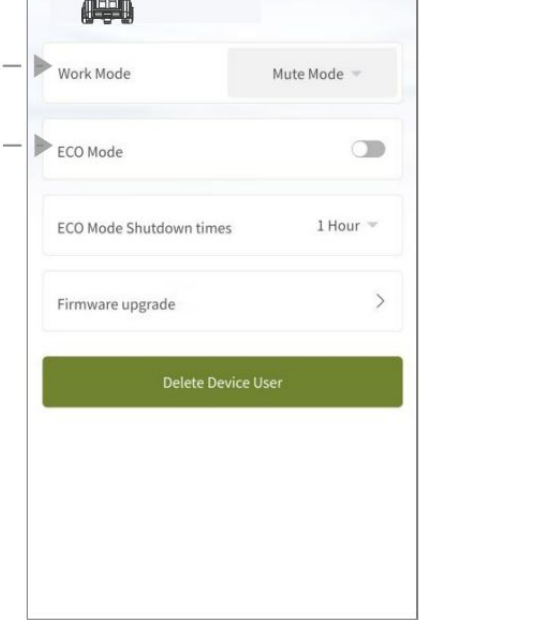




3.7.4 Mobile APP Operation Instructions

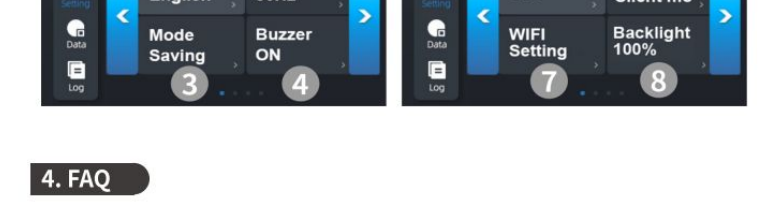


(1) Charging power working mode setting: can be set to Fast Mode/Standard Mode/Mute Mode;
(2) Operation mode setting, set to power saving mode, you can set the AC or DC off time to 1 hour or 2 hours , 4 hours, 6 hours, the power station working in this mode,AC or DC will be turned off after the set time.



3.8 Power station settings

1. Display language setting, you can switch the interface language to Chinese, English and Japanese.
2. Output frequency setting, when AC is not input or output, the frequency can be switched to 50H or 60Hz.
3. Operating mode setting, in normal mode, the power station will not shut down automatically after turning on AC/DC; in power saving mode, when turn on AC/DC, if the output power continues to be <10W, it will shut down after the set time (1 hour, 2 hours , 4 hours, 6 hours).
4. Prompt sound setting, turn on or off the power station control prompt sound.
5. Bluetooth settings, turn on or off the Bluetooth function.
6. AC charging input power settings can be set to three types: silent mode, standard mode, and fast charging mode.
7. WIFI settings, select the WIFI name, and enter the WIFI password.
8. Screen brightness adjustment setting, the setting value is 1-100%.



4. FAQ

1. What type of battery does the product use?
This product use high-quality lithium iron phosphate batteries(LFP).
2. What equipment can the AC output port of the product carry?
The AC output port of this product has a rated power of 100V-120V 3600W (peak 6000W) or 220V-240V 4000W (peak 6000W), which can supply power to most household appliances. It is recommended that you confirm the power of the electrical appliance and ensure that the sum of the power of all load devices is less than the rated power.
3. How to know how long the product can supply power?
The LCD screen of this product will display the battery life, which can be estimated for devices with stable power consumption.

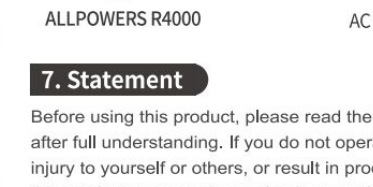
4. How to judge the product is charging?
When charging, the LCD screen will display the remaining charging time, and the battery indicator circle outside the battery percentage has a breathing animation effect.
5. How to clean this product?
Wipe this product with a dry, soft, clean cloth or paper towel.
6. How to store the product?
When storing, please turn off this product first, and then store in a dry, ventilated place with room temperature. Do not place this product in water nearby. For long-term storage, it is recommended to discharge the battery to 30% and recharge to 60% every three months to prolong the service life of this product.
7. Can this product be brought on the plane?
No.
8 Can colleagues charge and discharge?
Yes, the product supports simultaneous charging and discharging.
9. Is the actual output capacity of the product consistent with the target capacity in the user manual?
The capacity indicated in the user manual is the rated capacity of the battery pack of this product. Since this product has a certain efficiency loss during the charging and discharging process Therefore, the actual output capacity of the product is lower than the capacity specified in the user manual. and display the input power.

5. Troubleshooting

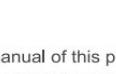
Note: Tap to enter the LOG interface to view related faults.

Problem	Solution
Charging low temperature protection	Automatic recovery after ambient temperature recovery
Charging high temperature protection	Stop charging, check the product vent's is ventilated or not, will automatically recover after the temperature drops down
Discharge low temperature protection	Automatic recovery after ambient temperature recovery
Discharge high temperature protection	It is recommended to shut down and let it stand for more than 2 hours, and it will automatically recover after the product temperature drops down
Total output (AC+DC) discharge overload	Remove part of the load and turn on the AC manually again
AC discharge overcurrent	Remove the load and turn on the AC manually again
AC discharge overload	Remove the load, turn on the AC manually again, do not use power station for the devices which exceed the rated output power of the power station
AC discharge short circuit	Remove the load, repair the load circuit and turn the AC manually
PV input overvoltage	Remove the solar panel, do not use a solar panel which exceeds the rated voltage range of power sation to charge the power station
Other faults = xx xx is the fault number	Please consult customer service for details

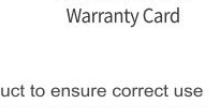
6. Package Contents



ALLPOWERS R4000



AC Charging cable



User Manual and Warranty Card

7. Statement

Before using this product, please read the user manual of this product to ensure correct use after full understanding. If you do not operate this product correctly, you could cause serious injury to yourself or others, or result in product damage and property damage. Once you use this product, you are deemed to have understood, recognized and accepted all terms and content of this document. The user undertakes to be responsible for his own actions and all consequences arising therefrom. ALLPOWERS 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 laws and regulations, the company reserves the right of final interpretation of this document and all related documents of this product.
If it is updated, revised or terminated without prior notice, please visit the ALLPOWERS official website for the latest product information.

This product is not intended for use in applications that require extremely high reliability and safety, such as aerospace equipment, trunk communication equipment, nuclear power control equipment, and medical equipment. Please make a judgment after fully confirming the suitability of this product and this device by yourself. If this product is used in the above equipment or equipment, we will not be held responsible for any personal injury, fire, or malfunction of the equipment or equipment caused by the failure of this product.

8. Contact us

If you have any questions or need assistance with our products and services,
please email :support@allpowers.com
Our official website: www.allpowers.com