

# User Manual



Manufacturer: Guangzhou Keyshop Design Co., Ltd.

Add: Building D, No.29 Kefeng road, science city, HI-tech development zone, Guangzhou, China

## Disclaimer

Before using the product, please read the instruction manual of this product and make sure to use it correctly after fully understanding it. After reading, please keep the 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 start to use this product, you are deemed to have understood, recognized and accepted all the terms and contents of this manual. Users undertake to be responsible for their own actions and all consequences arising therefrom. The manufacturer 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 relevant laws and regulations, the manufacturer has the final right to interpret this manual and all related documents of this product.

Subject to update, revision or discontinuation without notice.

## Product Overview

Thank you very much for using our portable power station product. In the design of this product, a multi-level safety mechanism is adopted, and the product safety and reliability are fully guaranteed. It has multi-port AC output and DC output functions, which can meet the power supply needs of mobile phones, notebook computers, cameras, TV sets, various chargers, game consoles, DVD players, small electrical tools and other equipments, and built-in LED lighting.

## Packing List



Power station



USB cable



User manual



Adapter

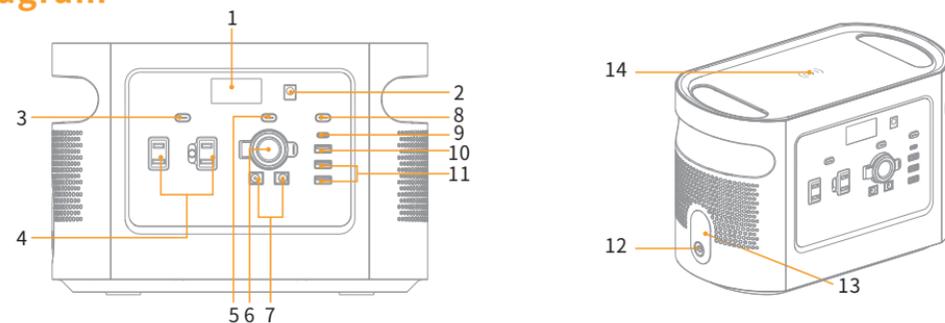
## Safety Guidelines

- This product is not suitable for children.
- If someone else uses this product, please make sure they have fully understood how to use it safely and have read and understood the manual.
- Before using this product, please remove all the outer packaging and untie the cable.
- Do not disassemble this product without permission to avoid unknown hazards. If you need maintenance, please contact customer service for help.
- If the product is severely hit, dropped or damaged in any other way, please do not operate it and hand it over to qualified service personnel.
- Do not place this product near a heat source, such as a fire source or a heating furnace.
- Do not use this product near flammable gases or liquids.
- Do not place this product on inflammables, such as carpet, interior decoration, paper, cardboard, etc. When the equipment is in operation, please keep away from items easily affected by high temperature, such as blankets, pillows, bedding, etc.
- Do not let the product come into contact with any liquid. Do not immerse it in water or wet it. Do not use this product in rain or humid environment.
- The product will generate heat during use, so it must be properly ventilated. Please make sure that there is at least a gap of more than 7.5cm around this product.
- When using this product, please strictly follow the ambient temperature in the manual. If the temperature is too high, the battery may catch fire or even explode; if the temperature is too low, the product performance will be seriously degraded, and it may not even work normally.
- In case of peculiar smell and abnormal heating during use or storage, please turn off the machine immediately and place it in an open place for long-distance observation. After confirmation the safety, contact the distributor.
- Do not stack other heavy objects on this product.
- Do not forcibly block the fan during use, or keep the product in an airless or dusty space.
- Do not use this product in the environment of strong static electricity or strong magnetic field.
- Do not use this product at an altitude of more than 2000m.
- The AC output of this product is 110V. Do not insert your finger or hand-held metal conductor into the AC power socket.
- Do not short circuit the output of this product.
- This product is a power supply, please match the corresponding model according to the power limit. It is forbidden to use the product in excess of power and overload.
- Do not operate the product with damaged power cord or plug. If damaged, replace the power cord or plug immediately.
- Do not charge this product with a damaged charging cable.
- Please charge this product with the adapter provided.
- Please select solar panel charging according to the electrical parameters specified in the manual.
- In order to reduce the risk of electric shock, please shut down and remove all plugs on the product before maintenance or cleaning.

## Specification

Basic Parameters	Name	Portable Power Station
	Model No.	QE01A(US)
	Capacity of Li-ion battery pack	500Wh, 14.8V, 33.8Ah
	Size	306×171×202(mm)
	Net Weight	≈ 4.8 Kg
Input	DC charging	12~30V=3.42A 65W(Max)
	USB-C charging	5V=3.0A/9V=3.0A/12V=3.0A/15V=3.0A/20V=3.25A 65W(Max)
Output	AC output *2	110V/60Hz(Pure sine wave), Total 500W(Max)
	USB-A output*3	USB-A1:5V=3.0A/9V=3.0A/12V=1.5A 18W(Max), USB-A2 & USB-A3:5V=2.4A
	USB-C output	5V=3.0A/9V=3.0A/12V=3.0A/15V=3.0A/20V=3.25A 65W(Max)
	DC output*2	12~16.8V=7~10A 120W(Max)
	Car charger output	
	Wireless charging	10W(Max)
LED Light	2W	
Battery Parameter	Cycle Time	800 times
	Safety Protection	High temperature protection, low temperature protection, overvoltage protection, undervoltage protection, overload protection, short circuit protection and overcurrent protection
Use Environment	Charging Temp.	0°C~40°C
	Discharge Temp.	-10°C~40°C
	Storage Temp.	-20°C~45°C
	Working Humidity	10%~90%

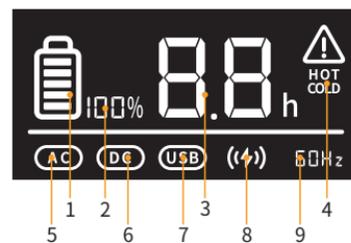
## Product Diagram



\* The AC power socket, AC output voltage and frequency of this product will be changed due to different countries or regions, please refer to the actual product!

- |                      |                     |  |                       |
|----------------------|---------------------|--|-----------------------|
| 1. Display screen    | 5. DC switch        | 9. USB-C                                 | 13. LED lighting      |
| 2. DC charging port  | 6. Car charger port | 10. USB-A 1                              | 14. Wireless charging |
| 3. AC power switch   | 7. DC output port*2 | 11. USB-A 2 & USB-A 3                    |                       |
| 4. AC power socket*2 | 8. USB switch       | 12. LED switch (one button to power off) |                       |

## Display screen



- |   |                               |
|---|-------------------------------|
| 1. Battery level/Charge status                      | 6. DC output                  |
| 2. Remaining battery                                | 7. USB output                 |
| 3. Discharge remaining time/Charge/Discharge status | 8. Wireless charging output   |
| 4. High and low temperature protection warning      | 9. AC output frequency (60Hz) |
| 5. AC output  |                               |

Note: a. Please turn off the display screen in time if the product is not in use;  
b. Press and hold the LED switch to turn off with one button.

## Charge and Discharge

- It is recommended to charge it immediately after purchase. Charge the battery immediately when the remaining power is below 20% to maintain optimum performance and extend service life.
- When charging, the product will be initialized first, and all symbols on the display will light up. After the self-check, it will enter the charging mode, and the display will show "CH" for a long time(charging), "FU" shows fully charging.
- Do not charge the product with its output.
- When discharging, the current remaining time of discharge will be displayed, and the remaining time will be automatically adjusted according to the load. After the battery is discharged, the screen will automatically turn off.
- Do not fully discharge the internal battery as it may affect battery life.
- When the warning symbol of high and low temperature protection appears on the display, please stop use and shut it down immediately.

## Use AC Output

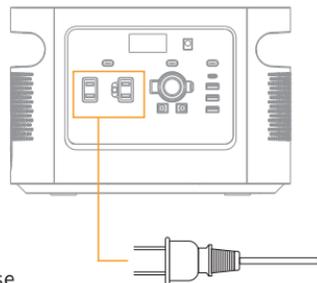
Press and hold the AC power switch to turn on or off the AC power socket

1. Connect the AC powered device to the AC socket (make sure the powered device is turned off before inserting the plug into the AC socket).
2. Press and hold the AC power switch to turn on the AC power outlet, and the display will show AC output.
3. After use, long press the AC power switch, turn off the AC power socket, and unplug the device from the AC power socket.

\* When AC output of the product is not used, please turn off the AC power switch to save energy.

### Notice:

- The AC voltage standards and socket specifications are different in different countries or regions. Please make sure that this product conforms to the specifications of the electrical equipment before use.
- Do not connect other AC power sources to the product's AC outlet.
- Do not put the plug of adapter into the product's AC outlet to charge itself.
- When the AC output is short-circuited or the power of the load appliance exceeds the AC output power, the protection function of the product will be activated. Please remove the short-circuit or remove the electrical equipment, and then restart the machine to restore the AC output function.



## Use DC Output

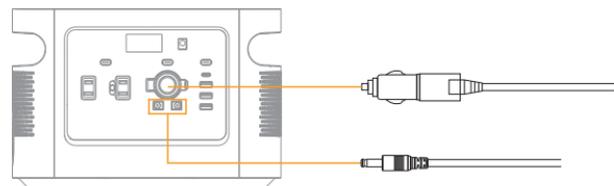
Press the DC switch to turn on or off the DC output

DC output port:

1. Insert the DC plug of the electrical device into the DC output port of this product, then press the DC switch to turn on the DC output, and the display screen will show DC output.
2. After use, press the DC switch to turn off the DC output, and pull the plug of electrical device out of the DC output port.

Car charging port:

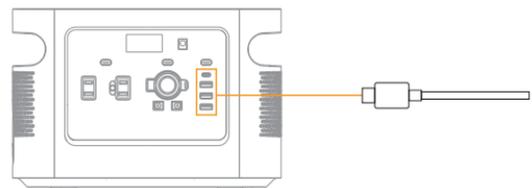
1. Insert the car charger plug into the car charger port, press the DC switch to turn on the DC output, and the display screen will show DC output.
2. After use, press the DC switch to turn off the DC output, and pull the plug of electrical device out of the car charger port.



## Use USB Output

Press the USB switch to turn on or off the USB output

1. Insert the USB cable plug into the USB-A port or USB-C port of the product, then press the USB switch to turn on the USB output, and the display screen will show USB output.
2. After use, press the USB switch to turn off the USB output, and pull the USB cable plug out of the USB-A or USB-C output port.



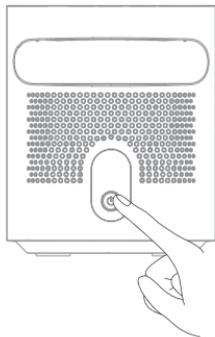
## Use Wireless Charging

1. Press and hold the USB switch to turn on the wireless charging function, the display screen will show wireless charging output symbol.
2. Put the device to be charged on the top center position for wireless charging. The charging position may need to be adjusted appropriately for different charging devices.
3. After use, long press the USB switch to turn off the wireless charging function.



## Use LED Lighting

1. Short press the LED switch to turn on the LED lighting function.
2. Short press the LED switch to change the LED modes in sequence: Weak, Medium, Strong, SOS, flash, Off.

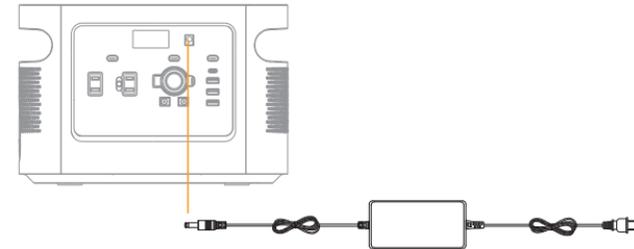


## Power Off With One Button

Press and hold the LED switch to turn off with one button (close all enabled functions), and the display will be turned off.

## Adapter Charging

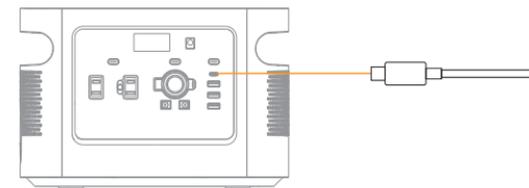
1. Insert the round charging plug of provided adapter into the DC charging port, and then insert the power plug of the adapter into the mains socket to charge.
2. After charging, please pull the adapter power plug out of the mains socket, and then remove the round charging plug from the DC charging port.



Note: Please do not plug the adapter power cord into the product's AC outlet to charge itself.

## USB-C Charging

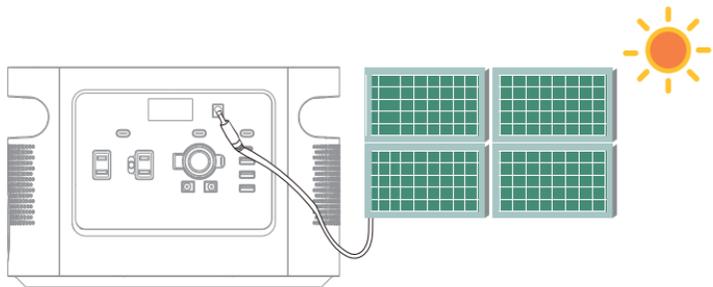
1. Connect the USB-C charging cable to the USB-C port of the product, and then plug the other end of the USB-C charging cable into the USB charging socket to start charging.
2. After charging, please unplug the USB-C charging cable from the USB-C port.
3. USB-C charging can be performed simultaneously with power adapter charging/solar panel charging/car charging.



Note: Please do not use the product's output to plug into the product's USB-C to charge itself.

## Solar Panel Charging (optional)

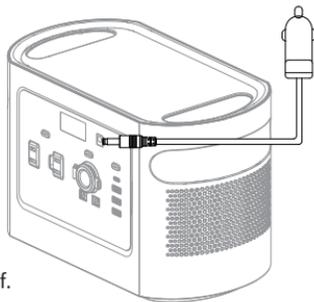
1. Place the solar charging panel in direct sunlight. (Note: Do not expose the product to direct sunlight or moisture)
2. Connect the output round plug (5.5mm) of the solar panel to the DC charging port, and the charging starts.
3. After charging, please remove the round plug of the solar panel from the DC charging port.



## Car charging (optional)

1. Connect the round plug (5.5mm) of the car charger cable to the DC charging port of this product, and then insert the car charger plug into the vehicle's 12V car charger port to start charging.
2. After charging, please remove the car charger first, and then pull the round charging plug out of the DC charging port.

Note: Do not insert the car charger plug into the car charger port of this product to charge itself.



## Troubleshooting

1. There is no response when the product is turned on, and DC, USB, AC and LED lights have no output. Terms of settlement:
    - Remove all electrical equipment, then charge it for 5-10 minutes and restart.
    - Please ensure that the product is currently used within the normal temperature range.
  2. The product can be powered on, but the corresponding output interface has no output (DC, USB, AC). Terms of settlement:
    - Check whether the product power of is too low. If so, please charge it in time.
    - Check whether the electric equipment is higher than the product output power and resulting in protection, remove the load and restart.
    - Confirm whether the product output meets the power requirements of electrical equipment.
    - Check whether there is a short circuit between the output port and the electric equipment. Remove the equipment and restart it
    - Check whether the equipment can be used normally by using other power sources, which may be caused by incompatibility of individual equipment.
  3. Unexpected shutdown during use. Terms of settlement:

The startup of the internal protection system leads to the shutdown of the product, and the events that may lead to the startup of the protection system include overcharge, over discharge, high temperature, low temperature, overcurrent and short circuit. In order to quickly solve the problem, please remove all electrical equipment, keep the product temperature static within the normal temperature range, and charge the product for 5-10 minutes. At the same time, check whether the electrical equipment is faulty, then restart.
  4. The product cannot be charged. Terms of settlement:
    - Please confirm whether the charging electrical parameters are within the charging range of this product.
- Check whether the current equipment has started the temperature protection because the temperature is too high or too low.

## Maintenance And Service

- It is recommended to use or store the product at 20 °C to 30 °C, away from water source, heat source and other metal objects.
- For safety reasons, do not store the product in an environment higher than 45 °C or lower than - 20 °C.
- If you need long-term storage, please charge and discharge the product every 3 months (that is, discharge the product to 30% and then charge it to 60%).
- If the power of this product is less than 1% after use, please charge it to 60% before storage. If it is left idle for a long time under the condition of serious power shortage, it will cause irreversible damage to the cell and shorten the service life of the product.

## General Questions And Answers

Q: How long can the product be stored?

A: It can be stored for 6 months when fully charged. It is recommended to charge it every three months.

Q: How long does it take for the product to be fully charged?

A: Charge from 3% to 90% with the original adapter for about 6 hours, and it can be fully charged in about 9 hours.

Q: Can you charge the product with DC charging port and usb-c port at the same time?

A: It can be charged at the same time, and the charging time will be shortened.

Q: Can the product be used while charging?

A: It can be used while charging. When the output power is greater than the charging power, the battery power will be reduced. When it is reduced to a low power state, the output will be turned off.

Q: Does the product have temperature protection?

A: When the internal temperature is higher than 55 °C during charging, it will be protected; when the internal temperature is higher than 60 °C during discharging, it will be protected.

Q: Will the product shut down automatically?

A: It will not shut down automatically until it is fully discharged. Under normal circumstances, it will not shut down automatically after power on.

Q: Can the product be used to start the car?

A: It cannot be directly used to start the car. However, another charging line can be selected to charge the starting battery of the car. When the power of the product is  $\geq 20\%$ , the car can be started after charging for 5-10 minutes.

Q: After being fully charged, the power percentage and Fu are not displayed synchronously or have errors. Is it normal?

A: Normal image: "Fu" will be displayed when fully charged, but the power percentage may be 99%.

## FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment 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 equipment 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 equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

FCC ID: 2A49V-QE01A