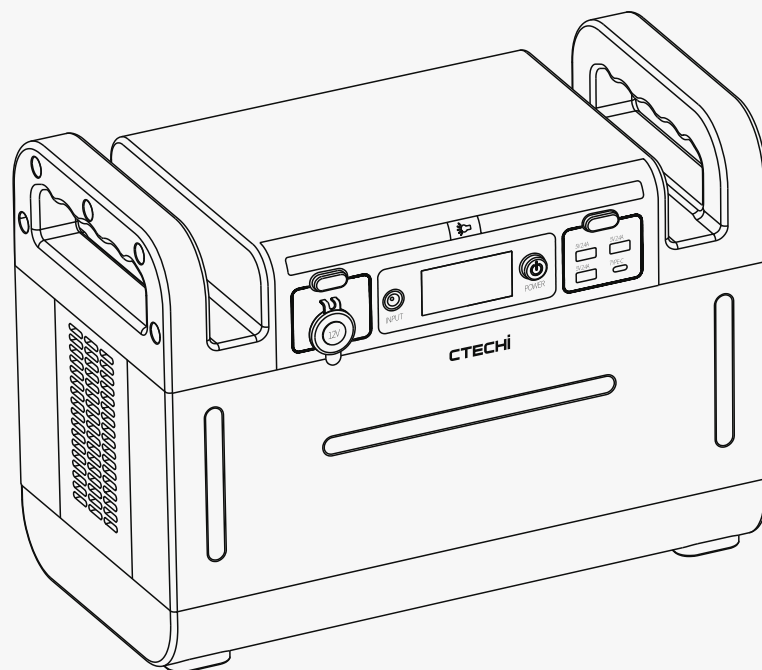


CTECHi



GT1500

Portable Power Station

User manual

1/Important notice

Before using this product, please read this user manual carefully to familiar with the characteristics of this product. Failure to operate this product correctly may result in damage to the product or personal property, resulting in serious personal injury. Without following the instructions provided by CTECHI outdoor power supply, do not use electrical equipment that is incompatible with this product or change the product in any way. These safety guidelines include instructions for safety, operation, and maintenance. In order to operate the product correctly and avoid product damage or serious injury, you must carefully read and follow all instructions and warnings in the user manual before installation or use.

2/Safety instructions

WARNING - When using this product, basic precautions should always be followed, including the following:

Read all the instructions before using the product.

- 1.To reduce the risk of injury, close supervision is necessary when the product is used near children.
- 2.Do not put fingers or hands into the product.
- 3.Do not expose the product to rain or snow.
- 4.Use of a power supply or charger not recommended or sold by the product manufacturer may result in a risk of fire or injury to persons.
- 5.Do not use the product that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.
- 6.Do not disassemble the product. Take it to a qualified service person when service or repair is required. Incorrect reassembly may result in a risk of fire or injury.
- 7.Have servicing performed by a qualified repair person using only identical replacement parts. This will ensure that the safety of the product is maintained.
- 8.Turn off when not in use.
- 9.Store product in a cool and dry place.
- 10.Do not store the product in a hot or humid environment.

11. Operating temperature should be between -10°C and 40°C.

12. If the product is not used for long periods of time, you should charge and discharge once every three months.

13. When charging a device, the product may feel warm, this is a normal operating condition and should not be cause for concern.

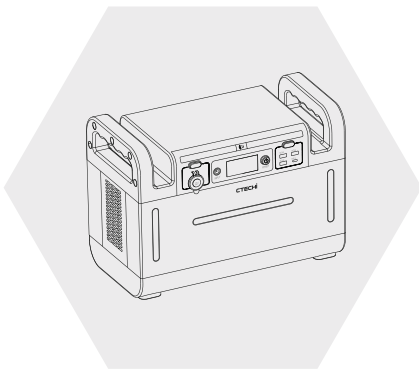
14. In normal conditions, the battery performance will decline over several years.

15. Do not clean the product with harmful chemicals or detergents.

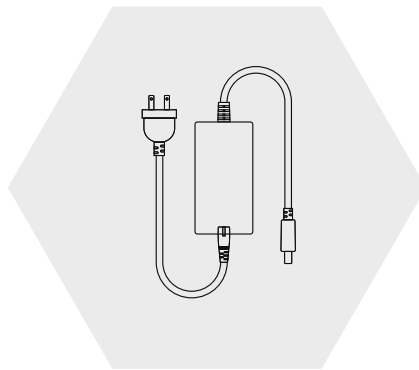
16. Misuse, dropping or excessive force may cause product damage.

17. When disposing of secondary cells or batteries, keep cells or batteries of different electrochemical systems separate from each other.

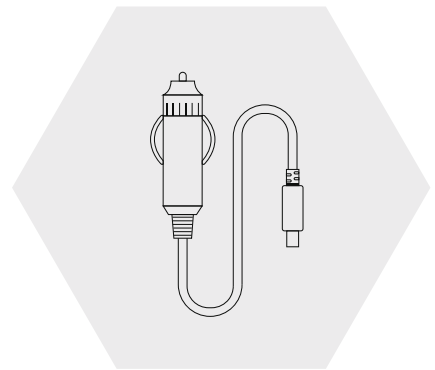
3/Pack List



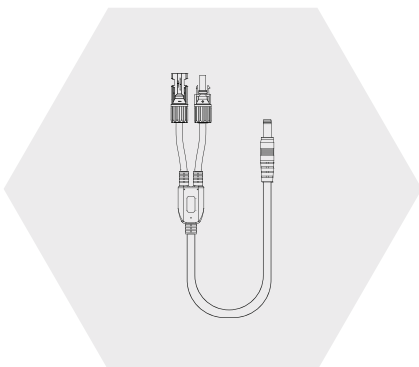
Portable Power Station X1



Adapter X1



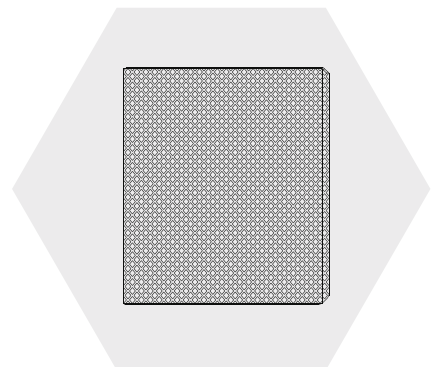
Car Charger cable X1



MC4 Solar Charge Cable X1

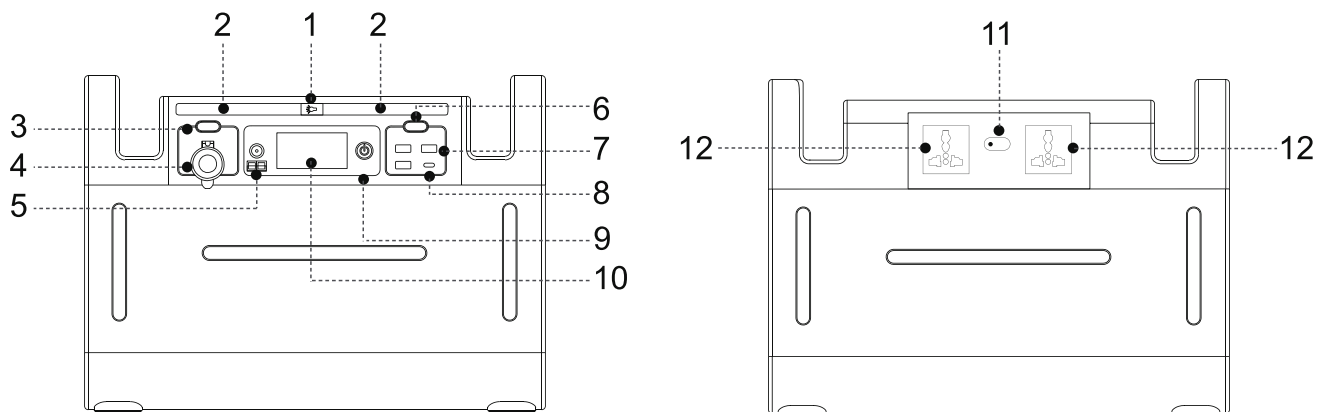


User Manual X1



Storage Bag X1

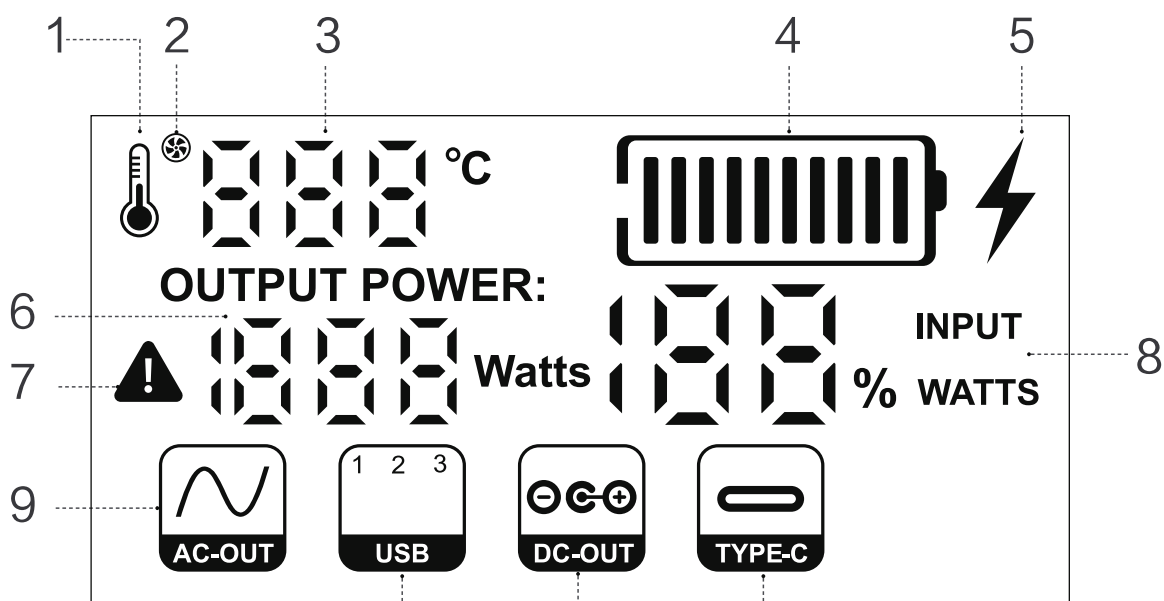
4/ Product Description















- 1.LED Light On/Off Button
- 2.LED Light
- 3.DC Output Button
- 4.Car Socket
- 5.DC Input(DC7909)
- 6.USB-A On/Off Button

- 7.USB-A Output
- 8.USB-C Output
- 9.Power Button
- 10.LED Screen
- 11.AC Output On/Off Button
- 12.AC Socket

5/Screen Display



LED Screen Display

	1. Temperature Icon		2. Fan Icon
	3. Temperature Value		4. Power Display
	5. Quick Charge Icon		6. Output Power Value
	7. Warning Icon		8. Input Power Value
	9. AC Output Icon		10. USB-A Output Icon
	11. DC Output Icon		12. USB-C Output Icon

6/Specification

1. When the temperature is about -10°C , only the USB power supply function and LED lights can be used normally; when the temperature returns to above -5°C , the AC resumes work, USB-A/USB-C, and DC output can be turned on normally (temperature The error is about $\pm 2^{\circ}\text{C}$).
2. Due to the low temperature properties of lithium iron phosphate batteries, it is recommended that the product be used in an environment above -3°C .
3. When the battery is overcharged or the battery temperature higher 65° or lower of -5°C , the product cannot be charged normally;
4. When the product is no-load or the total DC load power is less than 5W, or when the AC actual load power is less than 5W, the product will go to sleep after 8 hours.

7/Charging Ways

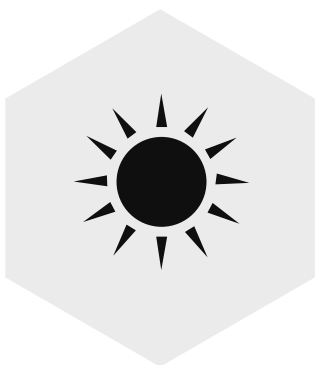
Please charge the product with adapter. The LED display will show the charging power and current battery level. When the battery level icon is full, it means fully charged.

Charging by adapter



1. Connect the DC adapter to the input of the product. When the power icon on the LED display is indicated by running light, it means normal charging.
2. If the product in the process of charging, the internal temperature rise of cooling fan will be started.
3. When the battery level is displayed full, mean charging is completed, the built-in over charging protection will be activated, will automatically stop charging, please timely disconnect the DC adapter.

Charging by solar panel



1. The solar panel should be placed (suggest to use the recommended solar panel) in direct sunlight.
2. When the solar panels output port is connected to the input port of GT1500, this product support MPPT input voltage range 12-29V/input current 4-7A (recommend 18V100w solar panel) , When the power icon on the LED display is indicated by running light, it means normal charging.
3. If the product in the process of charging, the internal temperature rise of cooling fan will be started.
4. When the battery level is displayed full, mean charging is completed, the built-in over charging protection will be activated, will automatically stop charging, please remove the solar panels from the device.

Charging by Car



1. Connect the cigarette lighter charger cable into the car cigarette lighter socket in the car, then starting the car.
2. Connect the other side of cigarette lighter charger cable to DC input port of GT1500. This product support car battery voltage range 12-14V/5A input current. When the power icon on the LED display is indicated by running light, it means normal charging.
3. If the product in the process of charging, the internal temperature rise of cooling fan will be started.
4. When the battery level is displayed full, mean charging is completed, the built-in over charging protection will be activated, will automatically stop charging. Please disconnect the car charging cable of this product and the car.

8/Specification

Model: GT1500

Capacity: 1210Wh (22.4V=54Ah)

Output waveform: Pure Sin Wave

Input

Adapter: 27V=8.5A

Solar charge: 12-29V=4-7A

Car Charger: 12-14V=5-8A

Output

AC Output*2: 220V-240Vac 50Hz
Reted Power: 1500W
Peak Power: 2500W

Car Socket Output*1: 12V=10A

USB-A Output *3: 5V=2.4A

USB-C Output *1: 5V/9V/12V/15V/20V=3A

LED Light: 2W

Cell Type: LiFePO4 Battery

Lifespan: 2000+ cycles

Charge Temperature: 0°C-40°C

Discharge Temperature: -10°C-40°C

Storage Temperature: -10°C-40°C

Safety Protection: Temperature Control, Surge Protection, Short Circuit Protection, etc.

Size: 400*210*290mm

Weight: 16Kg

9/ Common fault prompts and solutions

1. The product cannot power

1. Make sure the power button and DC/AC button are turned on. (If the ambient temperature is not within the range of $-10^{\circ}\text{C}\sim 40^{\circ}\text{C}$, the product may not be available).
2. When connecting the power plug of electrical device to this product, be sure to insert the plug to the root. If there is any water or foreign matter on the charger connector or charging input terminals, remove it.
3. Please check the remaining power on the display. If the remaining power is less than 10%, you need to charge the product.
4. Please check whether the voltage and power of your device are higher than the output power limit of this product.
5. if the voltage and power of the device are higher than the limit value, the short-circuit protection, overcharge protection, over-current protection, discharge protection, temperature protection, overload protection etc. Will be activated, this product will be shut down automatically. Please check if the protection circuit work.

2. What are the common display failure prompts?

1. When the USB is over-current or short-circuit protected, the output port will turn off, and the USB icon will flash to warn
2. When USB-C is over-current or short-circuit protected, the output port will close, and the USB-C icon flashes to warn
3. When the car socket is over-current or short-circuit protected, the output port will closes, and the DC-OUT icon flashes to warn
4. when continuous AC output until low voltage, AC-OUT icon on the display will flash to warn, and then turn of AC output.
5. ①if over-temperature protection is activated when AC output, will turn of AC output, can AC output normally after the temperature of the product goes down.
②if AC overload, AC output will be turned off and AC icon on the display will flash to warn. Only can be recovered after remove the load.
③if AC output in over voltage condition, AC output will be turned off. Only can be recovered after remove the load.

④if short-circuit happened and AC output will be turned off. Only can be recovered after short circuit faults removed.

6.When the battery is higher 65°C, all outputs will be turned off, the screen will display the highest temperature value, the temperature icon will flash, and the fan will work until the product quit over-temperature protection.

7.When the screen turn to black, disconnect the loads and charge the product, then can display normally.

3. The adapter is very hot when I charge the product, is this normal?

Our AC adapter is 27V/8.5A. According to safety standards, the maximum temperature for this adapter is 75°C. For your safety, the configured adapters have been certified by UL, CE, GS, PSE, TUV, ETL, CCC, etc.

4. What is the capacity of 1210Wh?

1210Wh means this product can run a 1210W (watt) device for one hour. Of course, a device that consumes 100W (watts) of power can run for 12.1 hours. (This is a theoretical value, the actual use time will be reduced by 10%-15% due to the discharge loss)

10/Warranty Policy

This guarantee guarantees that the product will be replaced free of charge under the conditions stipulated in the guarantee policy. Please read the guarantee carefully and keep it in a safe place.

1. Only when the product is used in accordance with the instructions in the operating instructions and fails within the warranty period, it will be replaced. Products replaced during the warranty period become the property of the company.

2. To get a warranty replacement, please send this warranty card together with the product. The shipping cost of returning the product for replacement is the customer's responsibility.

3. Under the following conditions, it will not be replaced during the warranty period.

① Failure or damage caused by failure to follow the precautionary measures described in the instruction manual.

② Failure or damage caused by improper storage and storage (complete discharge).

③ Failure or damage caused by the use of a non-designated power adapter.

④ Failure or damage caused by improper repair, disassembly or modification.

4. There is no guarantee for secondary damage caused by the malfunction of this product.

5. We are not responsible for any failure or malfunction of other equipment caused by the use of this product.

6. This manual is only valid for use in (this sales area), and the company has the final interpretation right.

7. This manual will not be reissued, so please keep it in a safe place.

8. If the dealer's name is not written or stamped, please submit the proof of the date of purchase and the dealer's name to the dealer who purchased the product, such as a receipt issued by the dealer. If you do not have such proof, please contact your dealer or the company which you purchased the product. If you purchased the product in our online store, you must provide proof of the date of purchase, such as a screenshot of the invoice, order number or order history, together with.