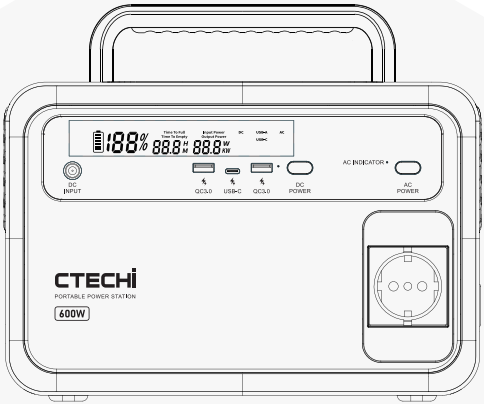
CTECHI
CREATIVE TECH INNOVATIONS



GT600

Portable Power Station

User Manual

CTECHI

CREATIVE TECH INNOVATIONS

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1/ Introduction

1.This is a brief introduction to the user manual of CTECHi. Please read the entire user manual to familiarize yourself with the functions of the product. CTECHi will not be held liable for any legal responsibility for damages to the product, personal property, or even serious bodily injury due to improper operation.

2.Do not use incompatible components or modify the product in any way without following the instructions provided by CTECHi. Otherwise, you will not be able to receive after-sales service from CTECHi under warranty conditions.

3.Before assembly, installation, or use, read and follow all instructions and warnings in the user manual to operate the product correctly and avoid damage or serious injury.

4.This manual includes safety, operating, and maintenance instructions, as well as reference pictures and specifications that are for reference only. The actual product shall prevail.

2/ About the product

To avoid fire, serious injury, or property damage when using, charging, or storing the power supply, please follow the following safety precautions:

1.Do not use the power supply in an environment with strong electrostatic or electromagnetic fields. Otherwise, it may cause battery management system failure, leading to serious accidents during use.

2.Do not disassemble or puncture the power supply in any way, as it may leak, catch fire, or explode.

3.Do not let the power supply come into contact with any liquid, do not place the power supply in the rain or near damp places. Do not submerge the power supply in water. If the internal battery of the product comes into contact with water, chemical decomposition may occur, which could lead to battery ignition and possible explosion.

4.Do not heat the power supply, do not put this product in a microwave or pressure vessel, do not expose it to the sun, keep it away from fire, and do not place it in a high-temperature environment.

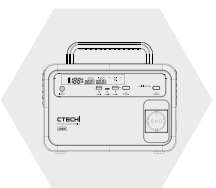
5.The battery should be used within a temperature range of -10°C to 40°C. Using it in an environment above 40°C or below -10°C will seriously reduce the performance of the product.

6.The power supply should be brought back to normal operating temperature before use. Do not cover the air intake and outlet of the cooling system during use.

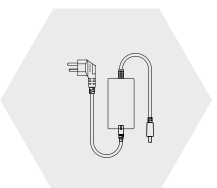
7.Please use the adapter and other accessories that are compatible with the power supply correctly, otherwise, it may cause damage to the power supply.

8.Do not use swollen, leaking, or damaged batteries. If your battery is abnormal, please contact us promptly for further assistance.
9.If the product accidentally falls into the water during use, immediately take it out and place it in a safe and open place. Keep a safe distance until it is completely dry. Never use it again and dispose of it properly.
10.Do not insert other foreign objects, such as metal sheets, into the machine casing, sockets, or input/output interfaces, as the metal may cause a short circuit, leading to battery overheating, explosion, or fire.
11. Please do not put heavy objects on the product, and should avoid using it during easy collision or serious bumps.
12.If there is dirt on the surface of AC socket or output/input interface, please clean it with a dry cloth. Otherwise, it will cause wear and tear, resulting in energy loss or failure to charge.
13. If the product is on fire, it is recommended to use fire extinguishing equipment in the following order: water or water mist, sand, fire blanket, dry powder, carbon dioxide extinguisher.
14. If not used for a long time, please charge the product once every three months.
15. Please dispose of or recycle the battery according to local regulations.

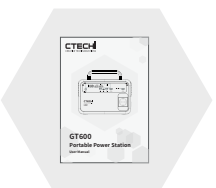
3/Product Packaging List



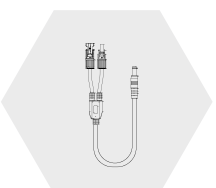
Power Station X1



Power Adapter X1

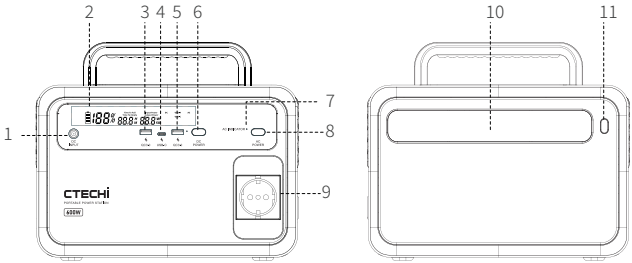


User Manual X1



MC4 Cable X1
(optional)

4/Product Overview



1. DC charging port
2. Display screen
3. USB-A output port
4. USB-C output port
5. QC3.0 output port
6. DC switch button
7. AC indicator light
8. AC switch button
9. AC output port
10. LED light
11. LED light switch

5/ Instructions for Use

Switch/Button Functions

1.AC Switch

Press and hold the AC switch button for 1 second to turn on the AC output, the AC indicator light and the display screen will light up. Press the AC switch button again to turn off the AC output. The display screen will turn off when both the AC switch and DC switch buttons are turned off.

2.DC Switch

Press and hold the DC switch button for 1 second to turn on the DC output, the DC indicator light and the display screen will light up. Press the DC switch button again to turn off the DC output (the DC switch controls the USB-A, USB-C, and cigarette lighter ports). The display screen will turn off when both the AC switch and DC switch buttons are turned off.

3.LED Lighting

The LED light switch can only be turned on after turning on the DC switch. The LED light has three modes: sleep light mode → lighting mode → SOS alarm light mode, which can be switched by single-clicking the LED light switch.

4.Sleep function:

When there is no load or the power is less than 1 watt, the USB-A, USB-C, LED light, and cigarette lighter output interfaces will automatically shut off and enter sleep mode. For the AC output interface, when there is no load or the power is less than 8 watts, it will enter sleep mode after 8 hours.

To activate the sleep function, turn on the DC switch, then press and hold the LED switch while pressing the DC switch. Release both switches immediately, and the "SLP ON" icon will light up on the display screen for 5 seconds, indicating that the sleep function is activated. To deactivate the sleep function, repeat the same process and the "SLP OFF" icon will light up on the display screen for 5 seconds.

5.AC output:

A. Long press the AC switch to enter AC output mode. Connect your device's power plug into the AC socket of the machine to power your device.

B. The rated power of the AC output terminal of this product is 600 watts, and the power of the connected device should not exceed the rated power.

C. When this product is in charging or discharging status, the air-cooling system will start automatically.

6.DC cigarette lighter output:

The rated power of the DC cigarette lighter output terminal of this product is 120 watts, and the power of the connected device should not exceed the rated power.

Protection mode:

When the machine itself or the connected external device experiences a short circuit or overload, the machine will trigger the protection mechanism. At this time, unplug the output device, turn off the machine, and then restart it.

6/Display screen



1、Battery Level Indicator Icon: When the battery is being charged, the battery icon will flash upwards.

2、Full Charge Time and Remaining Use Time Icons: In the current state, it will display the time required for the battery to fully charge or the remaining available time.

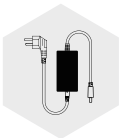
3、Charging and Discharging Power Icons: In the current state, these icons will display the power output of the device when charging or discharging.

4、DC Icon: When the DC output is activated, the DC, USB-A, USB-C, and cigarette lighter icons on the display screen will light up, and the USB-A, USB-C, and cigarette lighter output ports will open.

5、AC Icon: When the AC output is activated, the AC icon on the display screen will light up, and the AC output can be used.

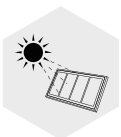
7/Charging methods

Charging with adapter



Use the adapter to charge the product. The product is plugged in and charged, while the automatic power on. After charging, the battery power icon flashes from the current power display to full power in a flowing manner, indicating that the product is charging normally, and when the battery power icon stops flashing and stays on, the product is fully charged.

Charging with solar panel



1.Place the solar panel in a place where it can be exposed to enough strong light directly and adjust the proper angle to provide charging efficiency.

2.Connect the solar panel output port with the input port of the product to charge. The battery power icon flashes to indicate normal charging. When the battery power icon stops flashing and stays on, the product is fully charged. After the product is fully charged, please unplug the solar charging port in time.

Note: The actual charging efficiency of solar energy may vary greatly depending on the weather, ambient temperature, sunlight intensity, the angle of the solar panel facing the sun and other factors, depending on the actual charging efficiency.

Charging with car charger



1. Plug the car charger into the 12V car cigarette lighter socket and plug the other DC port into the DC port of the product.

2. The maximum input current of the car charger needs to be within 10A to protect the safety of the car and the product.

3. The power icon on the product screen flashes to indicate normal charging, when all power icons stop flashing and stay on, it means the product is fully charged. After full charge, please unplug the car charger in time.

Note: In order to avoid the loss of car battery, you should charge this product through the car cigarette lighter when the car engine is started, this function is only applicable to the car with 12V output voltage cigarette lighter.

8/Technical parameters

Product Model： GT600

Product Capacity： 384Wh(12.8V⎓30Ah)/576Wh(12.8V⎓45Ah)

Output waveform: Pure sine wave output

Adapter input： 27V⎓4.5A(120W Max)

Solar input： 12V-29V DC(120W Max)

Car input： 12V⎓6A

AC output： 220-240V 50Hz Rated power：600W
Peak power:1200W

Car output： 12V⎓10A （120W Max）

QC3.0 output*2： 5V⎓3A,9V⎓2A,12V⎓1.5A（18W Max)

USB-C output*1： 5V⎓3A,9V⎓3A,12V⎓3A,20V⎓3A（60W Max)

Battery type: LiFePO4 Battery

Useful life: over 3500+ cycles of charge and discharge

Charging working temperature: 0°C-40°C

Discharge working temperature: -10°C-40°C

Storage temperature: -10°C-40°C

Safety protection: temperature control, surge protection, short circuit protection, etc.

Product size: 298×174×197mm

Product net weight: 5.2Kg/≈6.7KG

9/Common faults and handling methods

1. If the product cannot be powered, it may be:

1). Please make sure the AC switch or DC switch is on. (If the ambient temperature is in the range of -10°C to 40°C, the pproduct may not be available).

2). When connecting the power plug of an electrical device to the unit, be sure to insert the plug to the root. If there is any water or foreign matter on the power charging cable or the input terminal for charging, please remove it.

3). Please observe the power indicator, the power indicator is flashing, you need to charge the pproduct.

4). Please check whether the voltage and power consumption of your device are higher than the output power value limit of this product.

5). If the upper limit is exceeded, short circuit protection, overcharge protection, over current protection, discharge protection, temperature protection, overload protection, etc. will be activated and tthe product will shut down automatically, please check if the protection circuit is normal.

2.What is the capacity of 384Wh?

The "Wh" stands for the energy consumed. 384Wh means that the product can run a 384W/(watt) device for one hour.

Of course, a device that consumes 100W (watts) can run for 3.8 hours. (This is a theoretical value; the actual usage time will be reduced by 10%-15% due to heat loss and power conversion loss).

Please note that the actual available Wh is about 85%-90% due to the 10%-15% discharge loss during use.

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 theinstruction manual.

②Failure 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.

11/Warranty Card

Model:	**GT600**
Date of Purchase:	
Warranty Period:	**1 year from date of purchase**
Name :	
Address :	
E-mail :	
Vendor Name:	