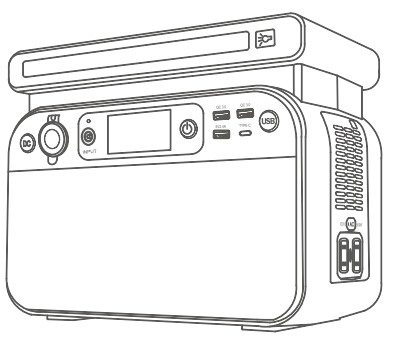


# GT500 Portable Power Station



Please read the instruction manual carefully before use.

## User Manual for GT500 Portable Power Station


### Introduction

Thank you for purchasing our portable power station. This manual is written to guide you in the safe and effective use of your portable power station.

This manual describes the correct operation, inspection and care of this product. If the product is used incorrectly, it may cause overheating, fire or other life-threatening dangers. So please read this manual carefully before using this product. After reading this manual, please keep it in a safe place for easy reference at any time.

(Please note that the pictures in this manual are for illustrative purposes only, and the product may be different from the pictures).

Due to changes in specifications, the illustrations and contents of this manual may differ from the actual product contents in some cases.



01

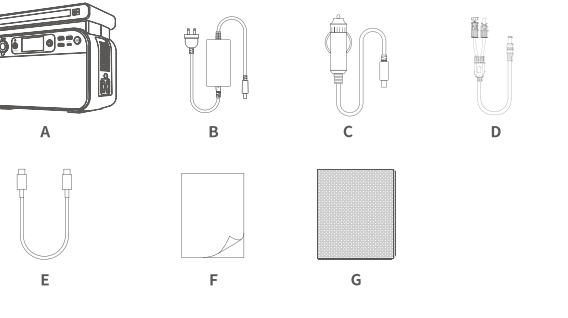
### Precautions

For your safety and the safety of others please follow the instructions below.

- Before using the product, please read this manual to ensure that you fully understand how to use the product correctly.
- Do not use this product for medical equipment, as this may cause accidents. When this product is used for medical equipment, 100-150Hz (50/60Hz) DC or AC voltage is required. If you are using an impedance coil or other device, please check with your doctor or medical device manufacturer before using it.
- Do not attempt to disassemble or modify this product, as this may cause overheating, fire or electric shock. Do not attempt to repair or drop the product. This may cause fire, burns, electric shock, or injury.
- Do not damage the charge body, wires or plugs. Using damaged products may cause fire or electric shock.
- Do not use the charger in places with a lot of steam, dust, oily smoke or corrosive gas. Do not expose the product to high temperature or corrosive gas. Do not put the product in the fire or heat it. Do not use the product near a fire, under the eaves, in a hot area, in a hot car, or in any other high-temperature place. Doing so may cause the product to overheat, rupture or catch fire.
- Do not operate the product or charger with wet hands. This may cause electric shock. Do not use the product get wet with rain, water or sea water and other liquids. Do not use the product where it will be exposed to liquids. Do not use the product where it will come into contact with liquids, as this may cause overheating or electric shock.
- Do not store in a humid, dusty or high temperature environment. Because this may reduce the insulation performance, leading to overheating or fire. Storage at high temperature may also shorten the life of the battery.
- This product should not be disposed of together with domestic garbage. Please dispose or recycle this product and battery in accordance with local regulations.

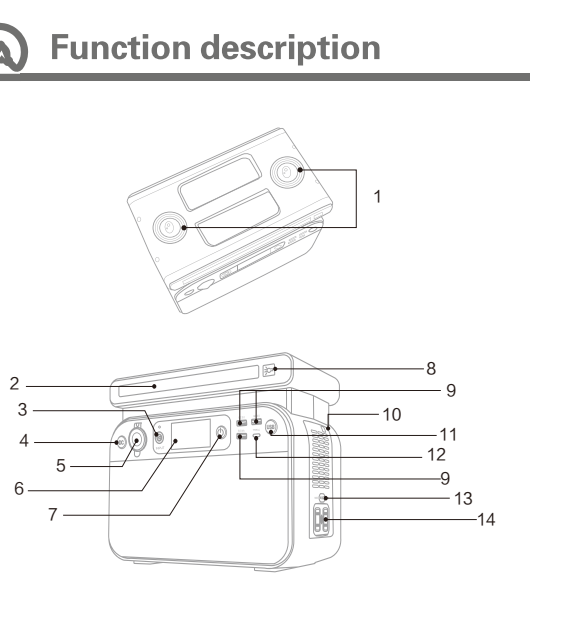
02

### Package content



A: Portable Power Station X1  
B: Adapter X1  
C: Cigarette lighter car charger cable X1  
D: MC4 photovoltaic line X1  
E: Type-C line X1  
F: User Manual X1  
G: Storage bag X1

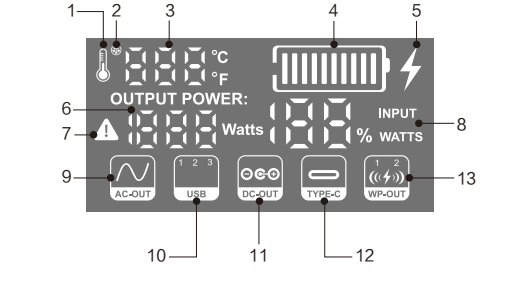
### Function description



- Wireless charging
- LED lighting
- DC input port
- DC output button
- DC cigarette lighter output port
- LED display
- POWER button
- LED lighting button
- USB output port
- 50/60Hz frequency switch
- DC input port
- DC output button
- USB output button
- Type-C output port
- LED display
- AC socket
- AC output button

03

### Display description



- Temperature icon
- Low battery icon, which means the fan is ON
- Temperature value icon
- Battery level icon
- Fair charge icon
- Output power value (updated once in 3S)
- The warning icon is ON, which means abnormal temperature alarm
- Input power value
- The AC-OUT icon is ON to indicate that the AC inverter function is ON. Working output voltage
- The USB icon is ON to indicate that the USB output is on 3 USB ports simultaneously output power <math>250W</math>
- The USB icon is ON to indicate that the cigarette lighter is turned on and output power
- The TYPE-C icon lights up to indicate that TYPE-C is working
- The TYPE-C icon is ON, indicating that the wireless charging is working
- LED lighting icon
- AC socket

04

### POWER Button

Short press "POWER" to turn on, and the battery temperature display, OUTPUT\_POWER, INPUT\_WATTS, and battery icons will all light up. Press and hold the button for more than 3 seconds to turn off the product.

### AC output button

When using an AC cable for output, turn on the power of the product and short press the "AC output button". If you press this button while using AC output, the AC output will be turned off.

### DC output button

To use the DC cigarette lighter output, please turn on the product power and short press the "DC output button". If you press this button while using the cigarette lighter or USB output, the on-board output will be turned off.

### USB Output button

When using USB and TYPE-C output, please turn on the power of the product and short press the "USB output button". If you press this button while using USB and TYPE-C output, the USB output will be turned off.

### LED light button

To use the LED lighting, please turn on the power of the product and short press the "LED light button". If you press the LED light button while using the LED light, the LED light will turn off.

### Frequency switch

Turn off the AC output before switching the 50/60Hz frequency switch, the "frequency switch" for the manual matching frequency position, and then press the AC output button, otherwise the wrong frequency will damage the electrical equipment.

05

### Product features

- When using this product, please use it within the ambient temperature range of  $-10^{\circ}\text{C}$  ~  $40^{\circ}\text{C}$ .
- Due to the characteristics of lithium iron phosphate batteries, the operating time becomes shorter or the output power decreases in a low temperature environment.
- Check that the maximum power of the electrical equipment to be used is within the output range of this product before it can be used. If the maximum power exceeds the output range of the product, the protection function of the product will be activated and the output will not be possible.
- In order to save energy, when using the output port to wireless charging, if the output power consumption of the device is less than 10W, it will enter sleep mode after 15 minutes, and the LED screen will not display.

06

### Operation guide

**A: How to use USB/DC/TYPE-C output**

- Short press "POWER" to turn on.
- Short press the "USB/DC output button". The USB "DC-OUT" "TYPE-C" icon lights up, and the USB/DC/TYPE-C output starts to work.
- Insert the USB data cable, DC car charging cable or TYPE-C data cable plug for DC assistance to be used into the output port.
- After using the DC appliance, pull out the plug and turn off the output button.

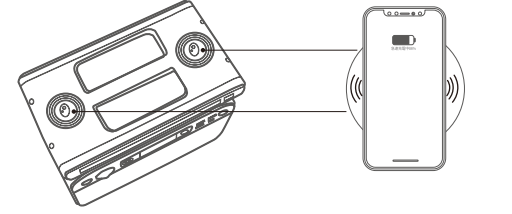
**B: How to use AC output**

- Short press "POWER" to turn ON.
- Adjust the output "frequency switch" to select the appropriate frequency for the electrical appliances to be used (Japan standard only).
- Long press the AC output button when "AC-OUT" appears on the LED display, the AC output starts to work.
- Insert the AC plug of the equipment to be used into the AC socket of the product.
- Using the electrical plug after use and turn off the AC output.

07

### C: How to use wireless charging

- Short press "POWER" to turn on.
- Put the wireless charging cordless device in the wireless charging area.
- When "WIRELESS CHARGING" appears on the LED display, wireless charging starts to work.
- The shorter the distance between the charging cordless device and the wireless charging of this product, the higher the working efficiency, and the longer will cause charging to be impossible.



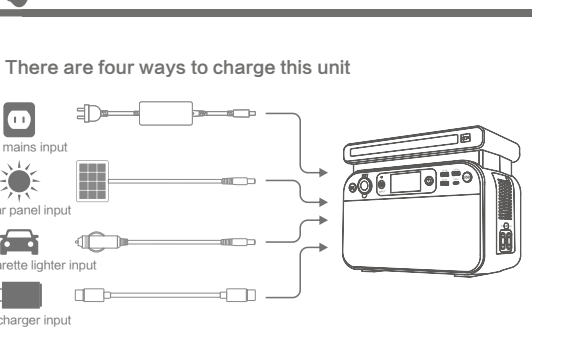
10

### E: How to change the AC output frequency (Japanese standard only)

- Short press "POWER" to turn on.
- Check the frequency of the equipment to be used.
- Adjust the AC output frequency switch to match the frequency of the equipment to be used.
- Long press the AC output button, when "AC-OUT" appears on the LED display, the AC output starts to work.

### Charging method

There are four ways to charge this unit



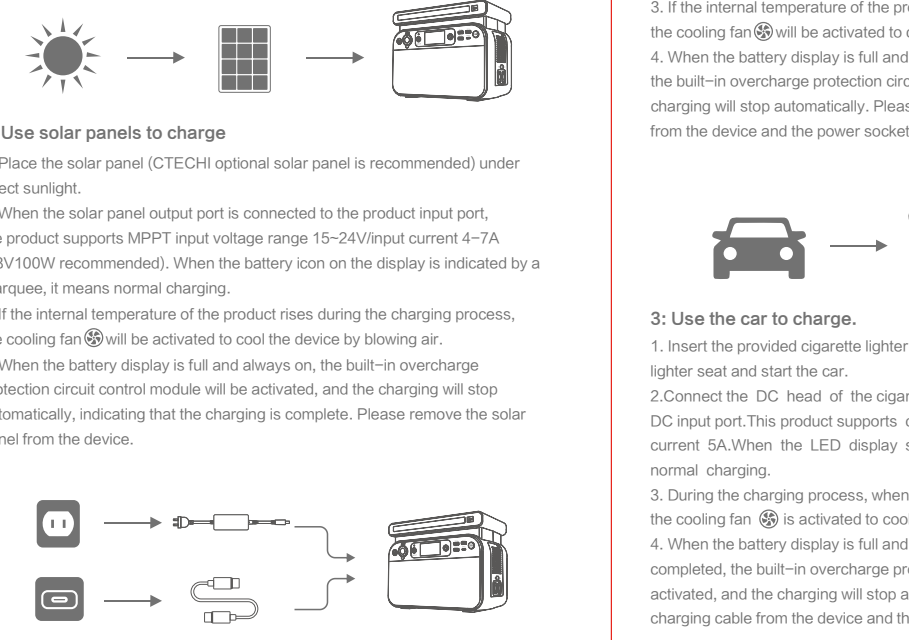
11

### 1: Use solar panels to charge

- Place the solar panel (ETECH external solar panel is recommended) under direct sunlight.
- When the solar panel output port is connected to the product input port, the product supports MPPT input voltage range 15-28V/ input current 4-7A (180W/200W recommended). When the battery icon on the display is indicated by a red light, it means normal charging.
- If the internal temperature of the product rises during the charging process, the cooling fan will be activated to cool the device by blowing air.
- When the battery display is full and always on, the built-in overcharge protection circuit control module will be activated, and the charging will stop automatically, indicating that the charging is complete. Please remove the solar panel from the device.

### 3: Use the car to charge.

- Insert the provided cigarette lighter car charging cable into the car cigarette lighter and start the car.
- Connect the DC head of the cigarette lighter car charging cable to the DC input port. This product supports car charging voltage range 11-16V/ input current 5A. When the LED display shows the LED blinking, it means normal charging.
- During the charging process, when the internal temperature of the battery rises, the cooling fan will be activated to cool the battery by blowing air.
- When the battery display is full and always on, it means the charging is complete, the built-in overcharge protection circuit control module will be activated, and the charging will stop automatically. Please disconnect the car charging cable from the device and the car in time.



12

### Power display

Battery indicator	State of charge
	91.91-100%
	59.81-90%
	58.71-70%
	57.61-60%
	56.41-50%
	55.31-40%
	53.21-30%
	52.10-20%
	51.01-10%

When the TYPE-C and DC ports are recognized for charging at the same time, the battery icon will flash up from the corresponding number of cells. The lightning icon will appear on the display, and the current energy power of the input terminal will be displayed.

- When the battery level is 0%, the battery frame flashes for 3 seconds, and it will automatically charge (it takes about 15 hours to fully charge with Type-C input), and it can also charge the product at the same time, which takes about 3 hours to fully charge.
- When the power is between 1%~10%, one grid is always on, and it flashes upwards from the corresponding number of grids (0.5S interval flashing).
- When the power is between 11%~30%, the two bars are always on, and it flashes upwards from the corresponding number of bars when charging (0.5S interval flashing).
- When the power is between 31%~40%, the three bars are always on, and the corresponding number of bars flashes upwards when charging (0.5S interval flashing).
- When the power is between 41%~50%, the four bars are always on, and it flashes upwards from the corresponding number of bars when charging (0.5S interval flashing).
- When the power is between 51%~60%, the five bars are always on, and it flashes upwards from the corresponding number of bars when charging (0.5S interval flashing).
- When the power is between 61%~70%, the six bars are always on, and it flashes upwards from the corresponding number of bars when charging (0.5S interval flashing).
- When the power is between 71%~80%, the seven bars are always on, and it flashes upwards from the corresponding number of bars when charging (0.5S interval flashing).
- When the power is between 81%~90%, the eight bars are always on, and it flashes upwards from the corresponding number of bars when charging (0.5S interval flashing).
- When the power is 91%~100%, the nine bars are always on, and it flashes upwards from the corresponding number of bars when charging (0.5S interval flashing).

13

### Power display

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14

### Product specifications

Product specifications	
Product model	GT500
Rated capacity	518Wh
Rated power	300W max power 1000W
Output waveform	Sine wave
Input power	270VA, Maximum 100W
Cigarette lighter output	12V/5A, 100W
AC output	<ul style="list-style-type: none"> <li>Output power: 300W/1000VA</li> <li>Output voltage: 100V-230V/50/60Hz</li> <li>Output current: 3A/13A</li> <li>Frequency: 50/60Hz</li> <li>Protection: Over-current, Over-voltage, Over-temperature, Short-circuit, Overload, Over-discharge, Overload</li> </ul>
USB-A*3	5V-2A (100W)
Type-C input/output*1	5V-20V (80W)
Battery	LiFePO4
Use times	more than 2000 times
Recharging temperature	10~40°C
Operating temperature	-10~40°C
Storage temperature	-10~40°C
Safety protection	Temperature control, surge protection, short-circuit protection, etc.
Size	237*173*128mm
Weight	7.2kg

15

### Frequently Asked Questions

**Q: Why is there no output from my portable power supply?**  
Answer: Please make sure that the POWER button and output button is turned ON. If the ambient temperature is used outside the range of  $-10^{\circ}\text{C}$  ~  $40^{\circ}\text{C}$ , the power supply may not be available.

**Q: When charging my portable power supply, the adapter becomes quite hot. Is this normal?**  
Answer: All our portable power supplies are equipped with an AC adapter. According to safety standards, the maximum temperature of the adapter is  $75^{\circ}\text{C}$ . For your safety, the configured adapter has passed FCC, UL, TUV, CE, CB, CCC certification. Please rest assured.

**Q: How much capacity does 518Wh mean?**  
Answer: Wh refers to energy consumption. 518Wh means that a device with a power consumption of 518W (watts) can run for one hour. Of course, a device with a power consumption of 100 watts can run for 5.18 hours. (This is a theoretical value. Due to heat loss and power consumption loss, the actual use time will be reduced by 10%-15%. Please note that there will be 10%-15% discharge loss during use, so the actual available Wh is about 85%-90%.)

**Q: What are the common display fault prompts?**  
Answer: 1. When the USB is over-current or short-circuit protected, the port dials the output, and the USB icon flashes to warn.  
2. When TYPE-C over-current or short-circuit protection, the port output is closed, and the TYPE-C icon flashes to warn.  
3. When the cigarette lighter outputs over-current or short-circuit protection, the port output is closed, and the DC-OUT icon flashes to warn.  
4. When AC output triggers over-temperature, overheat, and low-voltage protection, the AC will automatically shut down the output. The AC icon on the screen will flash and an error will be reported, and the output will automatically resume when the temperature returns to  $40^{\circ}\text{C}$ .

16

### Q: Can I use the AC adapter/charger/cigarette lighter socket and Type-C to charge the power supply at the same time?

Answer: Yes, you can use the adapter and Type-C to charge the portable power supply at the same time, the maximum input power will be 300W, and the charging time will be greatly shortened until the device is fully charged.

**Q: Why is there no output from my portable power supply?**  
Answer: Please make sure that the POWER button and output button is turned ON. If the ambient temperature is used outside the range of  $-10^{\circ}\text{C}$  ~  $40^{\circ}\text{C}$ , the power supply may not be available.

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17

### Warranty policy

No copy

This guarantee is a guarantee for free replacement under the conditions stipulated in the guarantee policy. Please read the warranty details carefully and keep them in a safe place.

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

2. To obtain a warranty replacement, please send this warranty card 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:

- Failure or damage caused by failure to follow the precautionary measures described in the instruction manual.
- Failure or damage caused by improper storage and storage (complete discharge).
- Failure or damage caused by the use of a non-designated power adapter.
- Failure or damage caused by improper repair, disassembly or modification.
- Failure or damage caused by falling, vibration, water leakage, condensation, etc. after purchase.
- Failure or damage caused by fire, earthquake, flood or other natural disasters.
- Any appearance change or discoloration caused by use.
- Failure or damage caused by use at temperatures other than the applicable operating temperature.

18

### Warranty card

Model name	GT500
Purchase Date	
Warranty period	1 year from the purchase date
Name	
Address	
E-mail	
Seller's name	

19

### EASTAR® More Energy Solutions

20