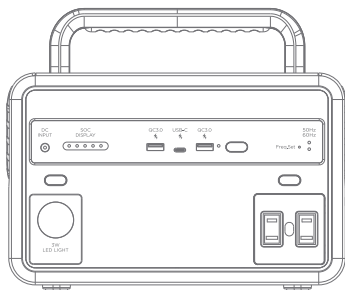


# EASTAR<sup>®</sup>

More Energy Solutions



Portable Power Station

**GT300 User Manual**



# DIRECTORY

English 110V ----- 01-11

English 220V ----- 12-22

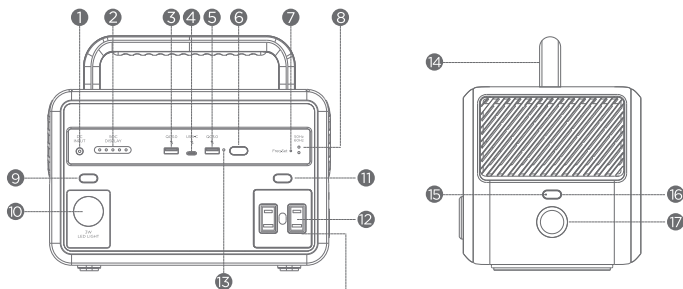
## About the product

Thank you for choosing **Eastar** brand portable emergency energy storage power supply products. Please read this manual carefully before use, in order to have a deeper understanding of the correct operation of the product.

This product can supply power to your electronic products when emergency power is needed during power outages, travel, outdoor operations, etc. This power supply supports 110V AC and QC3.0/USB-C output and 12V car charger cigarette lighter output. It can supply power for electrical appliances with power within 300W, products such as drones, speakers, mini fans, notebooks, projectors, printers, tablets, mobile phones, cameras, lights and so on.

- A. The specifications and pictures in this manual are for reference only.
- B. This product is only used in emergency situations and cannot replace the standard AC power supply of household appliances or digital products.
- C. The actual AC power socket, voltage, and adapter will vary according to the customer's country and region.
- D. This product uses an air-cooled system for heat dissipation. When using this product, please do not block the air inlet and outlet of the air-cooled system.

## Product diagram



1	DC charge, Solar Panel charge port
2	Battery level indicator light(Each bar shows 20% power )
3	USB-A1 Output Port QC3.0
4	USB-C Output Port
5	USB-A2 Output Port QC3.0
6	USB switches
7	AC Frequency-switching
8	AC Frequency indicating light

9	LED lighting switches
10	LED
11	AC switches
12	AC Output Port ( JP/US 110V)
13	USB indicator
14	Plastic handle
15	Car Cigar Output Port indicator
16	Car Cigar switches
17	12V Car Cigar Output Port

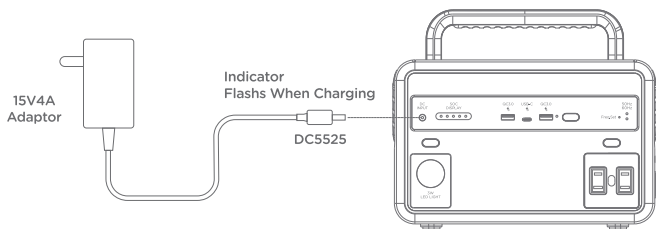


## Charge the product

### 1. Battery indicator display

The battery indicator display is divided into 5 grids, corresponding to about 1%-20%, 21%-40%, 41%-60%, 61%-80%, 81%-100% remaining power. When using the product, the battery indicator will gradually go out, and the remaining battery indicator is the percentage of remaining battery. When charging the product, the battery indicator will flash, indicating that it is currently in a normal charging state. When the product is fully charged, all the battery indicators will light up and show a steady state.

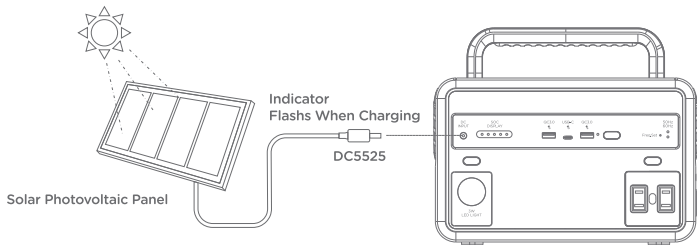
### 2. The adapter charges the product



A. Use the adapter to charge this product with a DC input power of 60W for fast charging. The battery indicator flashes to indicate normal charging. When all the battery indicators stop flashing and remain on, indicating that the product is fully charged. After the product is fully charged, please unplug the adapter in time.

B. It takes approximate 5-6 hours to fully charge the product with the original adapter.

### 3. Solar energy charges the product

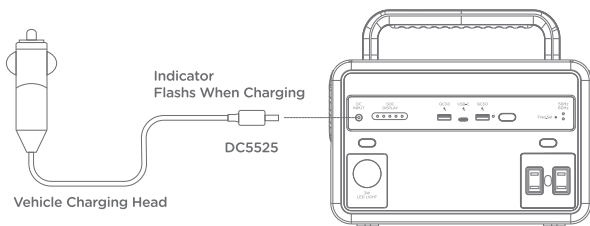


**Note: The solar charging voltage is 12V-26V, the open circuit voltage needs to be lower than 26V, and the maximum input power is 100W.**

- A. Put the solar panel in a place where it can be directly exposed to enough strong light, and adjust the appropriate angle to improve the charging efficiency.
- B. Connect the output port of the solar panel to the input port of the product to charge. The battery indicator flashes to indicate normal charging. When all battery indicators stop flashing and stay on, it indicates that the product is fully charged. After the product is fully charged, please unplug the solar charging port in time.

Reminder: The actual charging efficiency of solar energy will vary greatly due to weather, ambient temperature, sunlight intensity, the angle of the solar panel facing the sunlight, and other factors. The actual charging efficiency will be effected.

#### 4.12V car charger charges the product

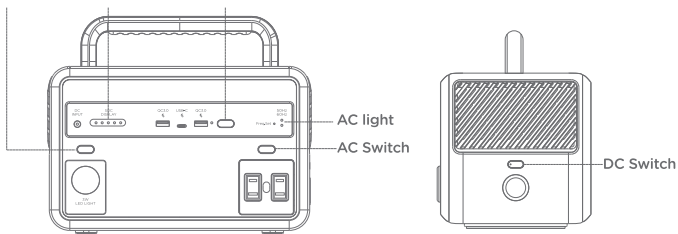


- A. Insert the car charger into the 12V car cigarette lighter socket, and insert the other DC plug DC5525 into the DC input port of the product.
  - B. The maximum input current of the car charger needs to be within 4A to protect the safety of the car and this product.
  - C. The battery indicator flashes to indicate normal charging. When all battery display grids stop flashing and stay on, it indicates that the product is fully charged.
- After the product is fully charged, please unplug the car charger in time.

**Note: In order to avoid car battery loss, you should charge this product through the car cigarette lighter when the car engine is started. This charging method is only applicable to 12V car charger.**

## How to use this product

Light Switch    Battery Indicator    USB Switch



### Switch/button function

#### AC switch

Long press the AC switch for 1 second, the AC indicator blue light turns on, and then the battery indicator blue light turns on, that means, the AC output of the power supply is turned on. Press the AC switch, the AC indicator turns off to stop the AC output.

#### USB switch

Long press the USB switch for 1 second, the USB indicator blue light will light up, and then the battery indicator blue light will light up, that means, the USB output has been turned on. Press the USB switch, the USB indicator light will be off and the USB output will stop.

#### DC switch

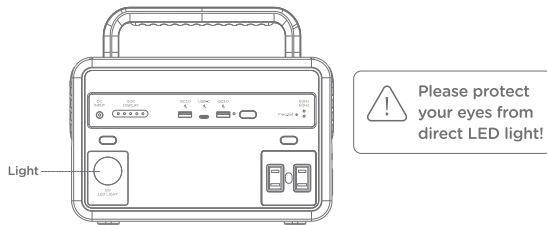
Long press the DC switch for 1 second, the DC indicator blue light will light up, and then the battery indicator blue light will light up, that means, the DC output has been turned on. Press the DC switch, the DC indicator light will be off and the DC output will stop.

Note: When any of the USB switch, DC switch or AC switch is turned on, the blue battery indicator will turn on. When all USB switch, DC switch and AC switch are turned off at the same time, and the power indicator will turn off..



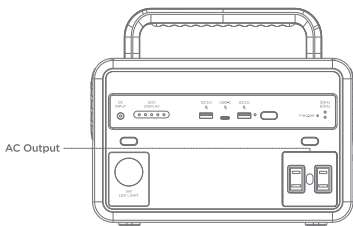
## Function Description

### 1. LED lighting



- Long press LED switch for more than 1 second to turn on the LED light, tap to turn it off.
- LED lights provide lighting for power outages, camping, wilderness exploration and so on.
- LED lights have a power of 3W.

### 2. AC output function



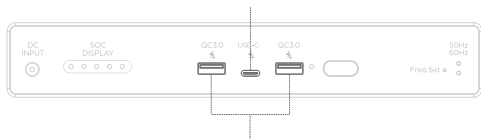
- Hold down the AC switch to enter the AC mode. Connect the power plug of the AC appliance to the AC socket of the machine to power the device.
- The rated output power of the AC port of this product is 300 W. The power of the electrical appliance connected to the output end must be less than or equal to the rated power.
- When the charging or discharging power of the product is too large, the air cooling system will start automatically when the internal temperature of the host is greater than or equal to 60°C. When the temperature drops, the air cooling system will stop automatically.

### Protection mode (AC output)

- A. When the output power of external electrical appliances is greater than the rated power of this product, the machine will have overload protection. At this time, the AC output device should be unplugged, and the fault will be resolved.
- B. When the machine itself or external electrical appliances are short-circuited, the machine will have short-circuited protection. At this time, you should unplug the AC output device and touch the AC switch to remove the fault.

### 3. QC3.0/USB-C output function

⚡ USB-C Output Port : 5V=3A, 9V=3A, 12V=3A, 15V=3A, 20V=2.25A(45W)

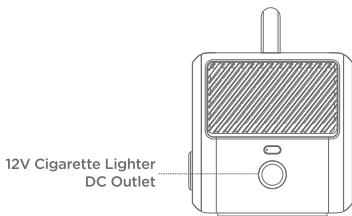


⚡ QC3.0 Output Port : 5V=3A, 9V=2.5A, 12V=2A (24W)

- A. QC3.0 output port supports 5V=3A/9V=2.5A/12V=2A fast charge output, the maximum power is 24W.
- B. The USB-C port supports 5V=3A/9V=3A/12V=3A/15V=3A/20V=2.25A fast charge output, the maximum power is 45W.

Note: When two QC3.0 interfaces are used at the same time, the output power of the two interfaces is 5V=3A.

### 4. DC cigarette lighter output



- A. The DC12V cigarette lighter interface provides 10A (maximum 10A) output current, and intelligently allocates the maximum current according to the external device to ensure the most suitable current to power the device.
- B. The rated output power of the DC cigarette lighter of this product is 120W, and the electrical power connected to the output end must be less than or equal to the rated power.

### **Protection mode (DC output)**

Short circuit protection: When the machine itself or external electrical appliances are short-circuited, the machine will have short-circuited protection. At this time, you should unplug the cigarette lighter output device, and short press the DC switch to clear the fault.

### **Product Features**

1. Set AC 110V, DC 12V, USB-C, QC3.0 output in one, GT series of innovative products AC output 300W power, to meet customers' various outdoor scenes of electricity, available for selection.
2. Automotive grade lithium iron phosphate batteries with high energy efficiency and high safety, with low energy consumption.
3. Large capacity design, long battery life, equipped with fast charging equipment, fast charging time.
4. Multiple intelligent safety protection design, regardless of charging, discharging, standby, it can easily deal with abnormal conditions such as overcharge, overload, overcurrent, overvoltage, short circuit, overtemperature, etc.
5. The appearance of the product is carefully designed, compact and convenient for outdoor travel.
6. The product shell uses ABS+PC fire-resistant plastic material, which is durable, and the surface of the wear-resistant product is not easy to scratch.
7. 110V AC output, QC3.0 port and USB-C port output, can charge multiple devices at the same time.
8. It can be used for household appliances, office appliances, power tools, etc. BMS power management program and fuel gauge display, high accuracy, easy to use and easy to identify.

## Application

1. As an uninterruptible power supply for outdoor work/office use, it can be connected to consumer digital devices such as notebooks, tablets, and mobile phones.
2. Outdoor electricity for outdoor photography, RV, and off-road enthusiasts, outdoor electricity for professional photography and recording equipment.
3. Electricity for outdoor markets, stalls, live broadcasts, lighting, oxygen production equipment, drones and other equipment.
4. Emergency electricity use in mines, oil fields, geological prospecting, geological disaster rescue, etc.
5. Emergency power supply for medical equipment, small and mini first-aid testing equipment, and oxygen-generating equipment for anesthesia.
6. Electricity for outdoor operations such as agriculture, animal husbandry, fishery, etc., and emergency electricity for operations such as construction and decoration.
7. More applications and usages are waiting for you to expand and use.

## Product parameter

### Basic parameters

Product number	GT300
Battery capacity	93600mAh
AC output waveform	Pure sine wave output (no harm to electrical appliances)
Rated power	AC 110V 300W

### Battery specifications

Cell type	Lithium iron phosphate battery
Battery energy	299Wh
Cycle life	More than 80% of electricity after 2000 cycles
Idle life	It is recommended to charge the product every three months

### Charge and discharge interface parameters

QC3.0 interface*2 (output)	5V=3A	9V=2.5A	12V=2A (24W Max)
----------------------------	-------	---------	------------------

USB-C interface (output)	5V=3A    9V=3A    12V=3A    15V=3A 20V=2.25A(45W Max)
Cigarette lighter interface (output)	12V=10A (120W Max)
AC interface (output)	110V 50Hz/60Hz sine wave 300W (peak power 450W Max)
Charging time	5-6 hours (adapter)
Adapter charging	15V= 4A
Car charging port	12V= 4A
Solar charging	12-26V (100W Max) open circuit voltage needs to be lower than 26V
LED lighting power	3W LED lighting

### Product parameter

Product weight	4.3Kg
Product Size	257X160X165mm
Package dimensions	330X235X280mm
Charging temperature	0-40°C
Discharge temperature	-10-40°C
Storage temperature	-10-40°C

### Precautions

1. Do not short-circuit the product connection. To avoid short circuits, keep away from all metal objects.
2. Do not heat this product or put it in fire, water or other liquids. Keep away from high temperature environment. Do not expose the product to direct sunlight.
3. Keep the product away from humid and dusty places.
4. Do not disassemble or reassemble this product.
5. Do not drop, place heavy objects, or subject the product to strong impact.
6. This product is not suitable for people with low physical, sensory or mental abilities.
7. Keep this product out of reach of children.

8. Please do not cover the product with towels, clothes and other items.
9. Do not overcharge the product. Please disconnect the power immediately after fully charged.
10. Please stay away from TVs, radios and other devices when charging to avoid radio wave interference.
11. If you do not use this product for a long time, please disconnect the cable before storing it in idle.
12. To charge some portable electronic devices, you may need to set these devices to charging mode first.
13. Please refer to the user manual of the corresponding device for confirmation.
14. The purpose of this manual is to help you use the product correctly, and does not represent any description of the software and hardware configuration of the product.  
For configuration, please refer to the contract related to this product (if any), or consult CTECHI brand after-sales customer service. The pictures and parameters in this manual are for reference only. If any pictures are inconsistent with the actual product, please refer to the actual product.
15. The final interpretation right and copyright of this manual belong to CTECHI.

## **Disposal and recycling**

This product should not be disposed of together with domestic waste. Please dispose of or recycle this product and its battery in accordance with local regulations.

## **Contact us**

If you have any questions or comments about our products, please contact us.

## **Packing list**

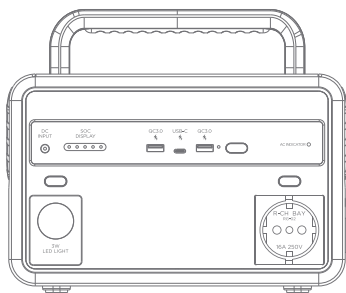
- |  |                            |
|--|----------------------------|
| 1. Portable emergency energy storage power supply x1 | 4. Car charging cable x1   |
| 2. User manual x1                                    | 5. Solar charging cable x1 |
| 3. Power adapter x1                                  | 6. Warm reminder card x1   |

## **Warranty**

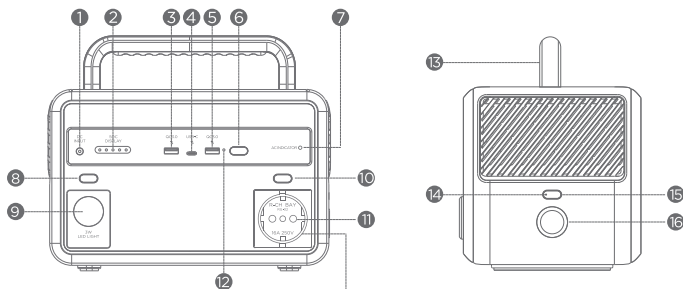
Our company provides customers with a 12-month warranty from the date of purchase.

# Portable Power Station

## GT300 User Manual



## Product diagram



1	DC charge, Solar Panel charge port
2	Battery level indicator light(Each bar shows 20% power )
3	USB-A1 Output Port QC3.0
4	USB-C Output Port
5	USB-A2 Output Port QC3.0
6	USB switches
7	AC light
8	LED lighting switches

9	LED
10	AC switches
11	AC Output Port (EU 220V)
12	USB indicator
13	Plastic handle
14	Car Cigar Output Port indicator
15	Car Cigar switches
16	12V Car Cigar Output Port



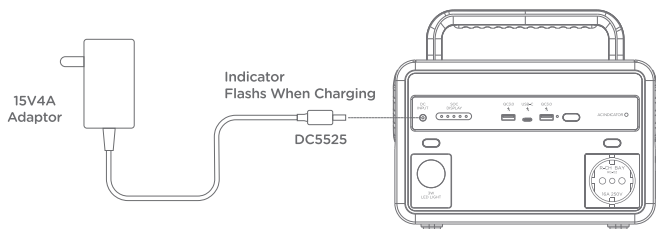


## Charge the product

### 1. Battery indicator display

The battery indicator display is divided into 5 grids, corresponding to about 1%-20%, 21%-40%, 41%-60%, 61%-80%, 81%-100% remaining power. When using the product, the battery indicator will gradually go out, and the remaining battery indicator is the percentage of remaining battery. When charging the product, the battery indicator will flash, indicating that it is currently in a normal charging state. When the product is fully charged, all the battery indicators will light up and show a steady state.

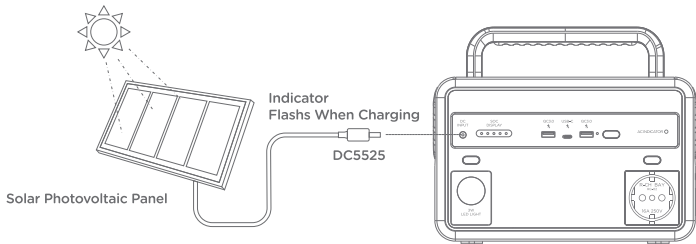
### 2. The adapter charges the product



A. Use the adapter to charge this product with a DC input power of 60W for fast charging. The battery indicator flashes to indicate normal charging. When all the battery indicators stop flashing and remain on, indicating that the product is fully charged. After the product is fully charged, please unplug the adapter in time.

B. It takes approximate 5-6 hours to fully charge the product with the original adapter.

### 3. Solar energy charges the product

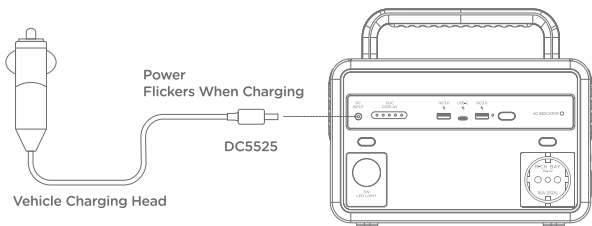


**Note: The solar charging voltage is 12V-26V, the open circuit voltage needs to be lower than 26V, and the maximum input power is 100W.**

- A. Put the solar panel in a place where it can be directly exposed to enough strong light, and adjust the appropriate angle to improve the charging efficiency.
- B. Connect the output port of the solar panel to the input port of the product to charge. The battery indicator flashes to indicate normal charging. When all battery indicators stop flashing and stay on, it indicates that the product is fully charged. After the product is fully charged, please unplug the solar charging port in time.

Reminder: The actual charging efficiency of solar energy will vary greatly due to weather, ambient temperature, sunlight intensity, the angle of the solar panel facing the sunlight, and other factors. The actual charging efficiency will be effected.

#### 4.12V car charger charges the product

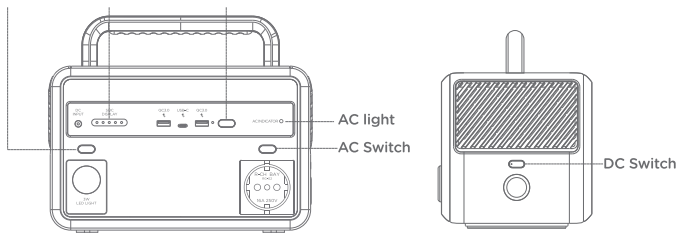


- A. Insert the car charger into the 12V car cigarette lighter socket, and insert the other DC plug DC5525 into the DC input port of the product.
  - B. The maximum input current of the car charger needs to be within 4A to protect the safety of the car and this product.
  - C. The battery indicator flashes to indicate normal charging. When all battery display grids stop flashing and stay on, it indicates that the product is fully charged.
- After the product is fully charged, please unplug the car charger in time.

**Note: In order to avoid car battery loss, you should charge this product through the car cigarette lighter when the car engine is started. This charging method is only applicable to 12V car charger.**

## How to use this product

Light Switch    Battery Indicator    USB Switch



### Switch/button function

#### AC switch

Long press the AC switch for 1 second, the AC indicator blue light turns on, and then the battery indicator blue light turns on, that means, the AC output of the power supply is turned on. Press the AC switch, the AC indicator turns off to stop the AC output.

#### USB switch

Long press the USB switch for 1 second, the USB indicator blue light will light up, and then the battery indicator blue light will light up, that means, the USB output has been turned on. Press the USB switch, the USB indicator light will be off and the USB output will stop.

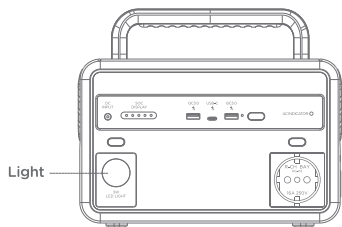
#### DC switch

Long press the DC switch for 1 second, the DC indicator blue light will light up, and then the battery indicator blue light will light up, that means, the DC output has been turned on. Press the DC switch, the DC indicator light will be off and the DC output will stop.

Note: When any of the USB switch, DC switch or AC switch is turned on, the blue battery indicator will turn on. When all USB switch, DC switch and AC switch are turned off at the same time, and the power indicator will turn off.

## Function Description

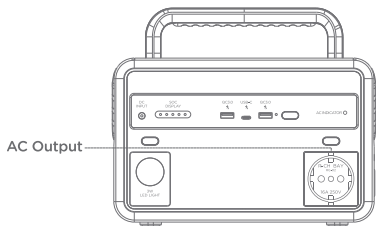
### 1. LED lighting



Please protect your eyes from direct LED light!

- Long press LED switch for more than 1 second to turn on the LED light, tap to turn it off.
- LED lights provide lighting for power outages, camping, wilderness exploration and so on.
- LED lights have a power of 3W.

### 2. AC output function



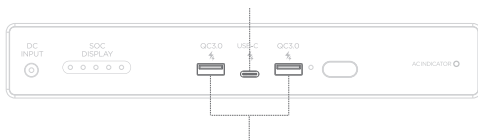
- Hold down the AC switch to enter the AC mode. Connect the power plug of the AC appliance to the AC socket of the machine to power the device
- The rated output power of the AC port of this product is 300 W. The power of the electrical appliance connected to the output end must be less than or equal to the rated power.
- When the charging or discharging power of the product is too large, the air cooling system will start automatically when the internal temperature of the host is greater than or equal to 60°C. When the temperature drops, the air cooling system will stop automatically.

### Protection mode (AC output)

- A. When the output power of external electrical appliances is greater than the rated power of this product, the machine will have overload protection. At this time, the AC output device should be unplugged, and the fault will be resolved.
- B. When the machine itself or external electrical appliances are short-circuited, the machine will have short-circuited protection. At this time, you should unplug the AC output device and touch the AC switch to remove the fault.

### 3. QC3.0/USB-C output function

⚡ USB-C Output Port : 5V=3A, 9V=3A, 12V=3A, 15V=3A, 20V=2.25A(45W)

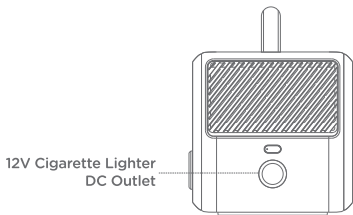


⚡ QC3.0 Output Port : 5V=3A, 9V=2.5A, 12V=2A (24W)

- A. QC3.0 output port supports 5V=3A/9V=2.5A/12V=2A fast charge output, the maximum power is 24W.
- B. The USB-C port supports 5V=3A/9V=3A/12V=3A/15V=3A/20V=2.25A fast charge output, the maximum power is 45W.

Note: When two QC3.0 interfaces are used at the same time, the output power of the two interfaces is 5V=3A.

### 4. DC cigarette lighter output



- A. The DC12V cigarette lighter interface provides 10A (maximum 10A) output current, and intelligently allocates the maximum current according to the external device to ensure the most suitable current to power the device.
- B. The rated output power of the DC cigarette lighter of this product is 120W, and the electrical power connected to the output end must be less than or equal to the rated power.

### **Protection mode (DC output)**

Short circuit protection: When the machine itself or external electrical appliances are short-circuited, the machine will have short-circuited protection. At this time, you should unplug the cigarette lighter output device, and short press the DC switch to clear the fault.

### **Product Features**

1. Set AC 220V, DC 12V, USB-C, QC3.0 output in one, GT series of innovative products AC output 300W power, to meet customers' various outdoor scenes of electricity, available for selection.
2. Automotive grade lithium iron phosphate batteries with high energy efficiency and high safety, with low energy consumption.
3. Large capacity design, long battery life, equipped with fast charging equipment, fast charging time.
4. Multiple intelligent safety protection design, regardless of charging, discharging, standby, it can easily deal with abnormal conditions such as overcharge, overload, overcurrent, overvoltage, short circuit, overtemperature, etc.
5. The appearance of the product is carefully designed, compact and convenient for outdoor travel.
6. The product shell uses ABS+PC fire-resistant plastic material, which is durable, and the surface of the wear-resistant product is not easy to scratch.
7. 220V AC output, QC3.0 port and USB-C port output, can charge multiple devices at the same time.
8. It can be used for household appliances, office appliances, power tools, etc. BMS power management program and fuel gauge display, high accuracy, easy to use and easy to identify.

## Application

1. As an uninterruptible power supply for outdoor work/office use, it can be connected to consumer digital devices such as notebooks, tablets, and mobile phones.
2. Outdoor electricity for outdoor photography, RV, and off-road enthusiasts, outdoor electricity for professional photography and recording equipment.
3. Electricity for outdoor markets, stalls, live broadcasts, lighting, oxygen production equipment, drones and other equipment.
4. Emergency electricity use in mines, oil fields, geological prospecting, geological disaster rescue, etc.
5. Emergency power supply for medical equipment, small and mini first-aid testing equipment, and oxygen-generating equipment for anesthesia.
6. Electricity for outdoor operations such as agriculture, animal husbandry, fishery, etc., and emergency electricity for operations such as construction and decoration.
7. More applications and usages are waiting for you to expand and use.

## Product parameter

### Basic parameters

Product number	GT300
Battery capacity	93600mAh
AC output waveform	Pure sine wave output (no harm to electrical appliances)
Rated power	AC 220V 300W

### Battery specifications

Cell type	Lithium iron phosphate battery
Battery energy	299Wh
Cycle life	More than 80% of electricity after 2000 cycles
Idle life	It is recommended to charge the product every three months

### Charge and discharge interface parameters

QC3.0 interface*2 (output)	5V=3A	9V=2.5A	12V=2A (24W Max)
----------------------------	-------	---------	------------------

USB-C interface (output)	5V=3A    9V=3A    12V=3A    15V=3A 20V=2.25A(45W Max)
Cigarette lighter interface (output)	12V=10A (120W Max)
AC interface (output)	220V 50Hz sine wave 300W (peak power 450W Max)
Charging time	5-6 hours (adapter)
Adapter charging	15V=4A
Car charging port	12V=4A
Solar charging	12-26V (100W Max) open circuit voltage needs to be lower than 26V
LED lighting power	3W LED lighting

### Product parameter

Product weight	4.3Kg
Product Size	257X160X165mm
Package dimensions	330X235X280mm
Charging temperature	0-40°C
Discharge temperature	-10-40°C
Storage temperature	-10-40°C

### Precautions

1. Do not short-circuit the product connection. To avoid short circuits, keep away from all metal objects.
2. Do not heat this product or put it in fire, water or other liquids. Keep away from high temperature environment. Do not expose the product to direct sunlight.
3. Keep the product away from humid and dusty places.
4. Do not disassemble or reassemble this product.
5. Do not drop, place heavy objects, or subject the product to strong impact.
6. This product is not suitable for people with low physical, sensory or mental abilities.
7. Keep this product out of reach of children.



8. Please do not cover the product with towels, clothes and other items.
9. Do not overcharge the product. Please disconnect the power immediately after fully charged.
10. Please stay away from TVs, radios and other devices when charging to avoid radio wave interference.
11. If you do not use this product for a long time, please disconnect the cable before storing it in idle.
12. To charge some portable electronic devices, you may need to set these devices to charging mode first.
13. Please refer to the user manual of the corresponding device for confirmation.
14. The purpose of this manual is to help you use the product correctly, and does not represent any description of the software and hardware configuration of the product.  
For configuration, please refer to the contract related to this product (if any), or consult CTECHI brand after-sales customer service. The pictures and parameters in this manual are for reference only. If any pictures are inconsistent with the actual product, please refer to the actual product.
15. The final interpretation right and copyright of this manual belong to CTECHI.

## **Disposal and recycling**

This product should not be disposed of together with domestic waste. Please dispose of or recycle this product and its battery in accordance with local regulations.

## **Contact us**

If you have any questions or comments about our products, please contact us.

## **Packing list**

- |  |                            |
|--|----------------------------|
| 1. Portable emergency energy storage power supply x1 | 4. Car charging cable x1   |
| 2. User manual x1                                    | 5. Solar charging cable x1 |
| 3. Power adapter x1                                  | 6. Warm reminder card x1   |

## **Warranty**

Our company provides customers with a 12-month warranty from the date of purchase.

# EASTAR<sup>®</sup>

*More Energy Solutions*

