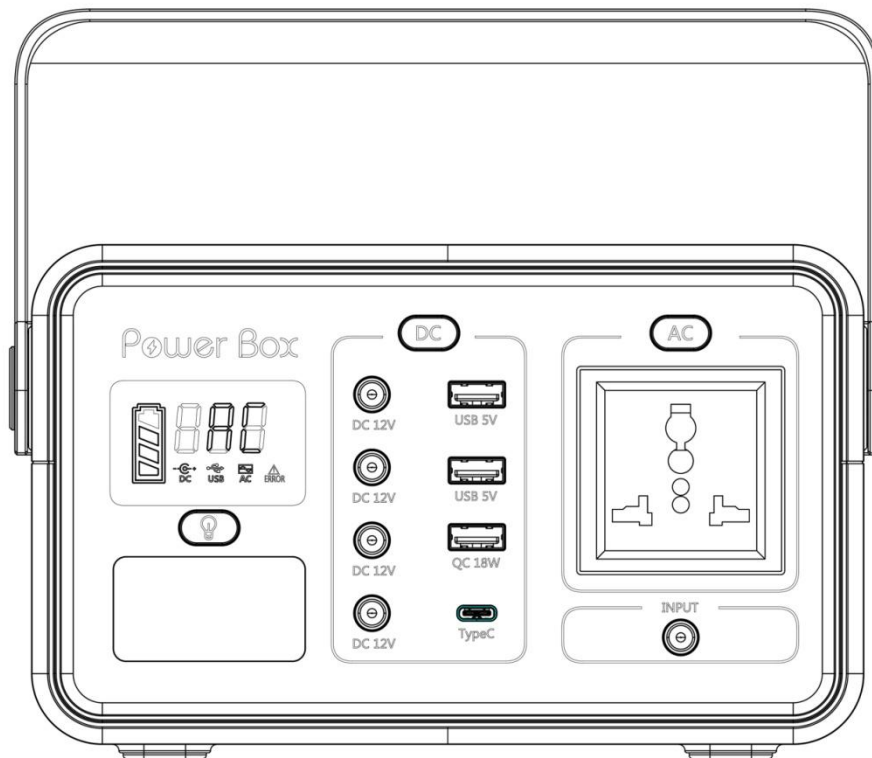


# PORTABLE POWER SUPPLY

## T200 User Manual



**Thank you for purchasing this multifunctional lithium power generator.**

**This unit will provide portable power with a range of AC / DC / USB outputs, to keep your smart phones, tablets, lights & other small electrical devices charged & operating.**

**Before using this unit, please read the user manual carefully and retain it for future reference.**

### **ATTENTION:**

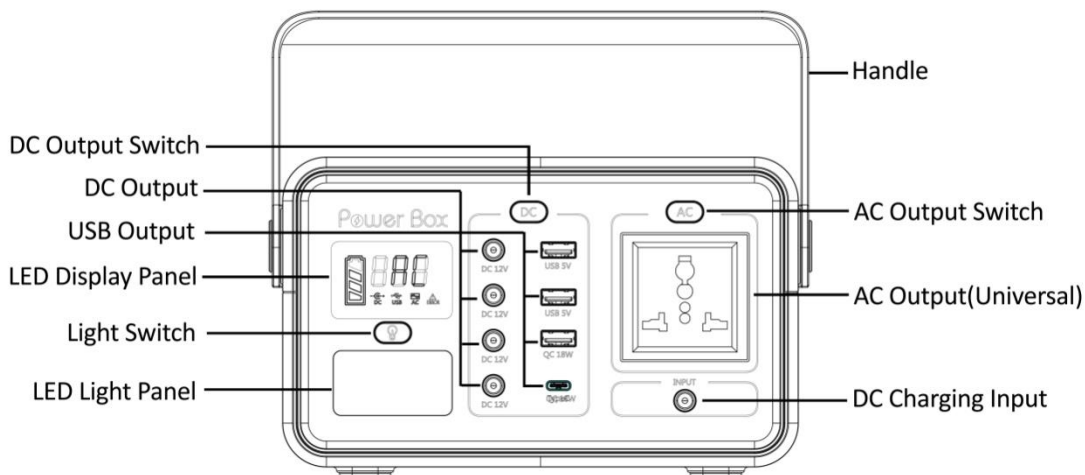
1. This product has an AC voltage output( 100V-240V/50Hz-60Hz). Keep out of reach of children when in use, and store safely, to avoid the risk of electric shock.
2. This is universal user manual, AC output sockets, AC output voltage, AC output frequency and AC charger plug will be different according to different countries and areas. Please read this user manual carefully before using the unit, and check carefully that the unit's voltage output matches your electric appliance's voltage. This is important to ensure that you do not damage your electrical appliance.
3. This unit is designed for temporary outdoor and emergency use only. It cannot replace normal alternating current supply.

# INTRODUCTION

## 【Product Parameters】

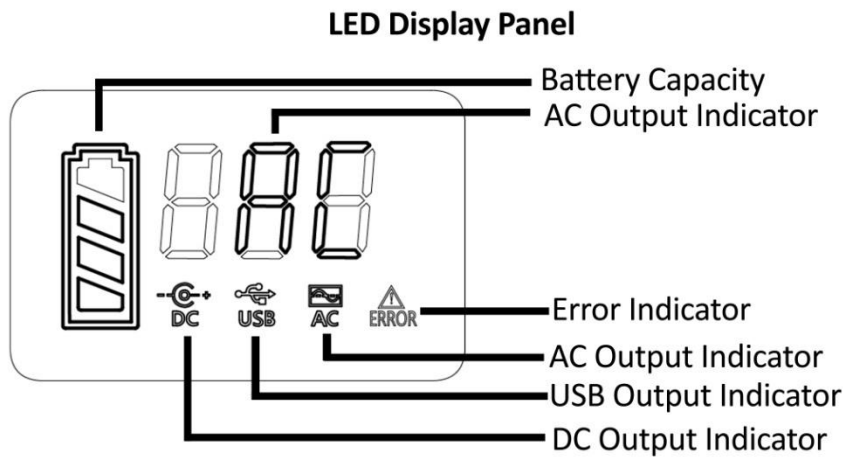
Battery	Lithium Ion Battery
Battery Capacity	222WH/60000mAh/3.7V
Dimensions(Length*Width*Height*Total Height)	210*139*123*180MM
Weight	2.32Kg
Input Recharging	AC Adapter: DC15V/3A Solar Panel: MPPT, 14V-22V/3A (Max)
Fully Charged Time	DC15V/3A: 6-7 hours
DC Output	4 x DC5521: 9-12.6V/10A (15A Max)
USB Output	2×USB-A: 5V/2.4A 1×USB-A: QC3.0, 3-12V/18W 1×TYPE-C: QC3.0, 3-12V/18W
AC Output	Rate Power: Modified Sine Wave 200W AC Voltage: 100/110/120/220/230/240V Output Frequency: 50/60Hz ☆For actual voltage and frequency, please refer to the sticker at the bottom of the unit.
LED Light	3W Ultra bright LED Flashlight
Power Indicator	LED Display
Operating Temperature	-10°C ~ +40°C
Lifecycle	1000 times
Package Contents	1×Portable Power Supply      1×AC Adapter 1×Car Charger      1×Cigarette Lighter Adapter 1×User Manual

## 【Product Description】



☆AC outlets, AC output voltage and frequency will vary according to different countries or areas. Please refer to the actual product before use. AC details are shown on the base of the unit.

## 【LED Display】



## DC OUTPUT

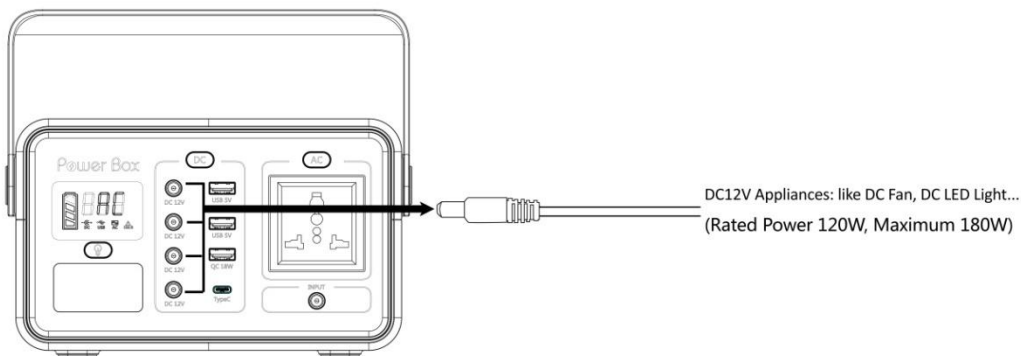
This unit has 4x DC5521 outputs (voltage range: DC9V-12.6V and rated current is 10A (15A Max)). To use, connect the power cable plug of the DC electric appliance to the DC outlet of the unit (as below). Switch on the “DC button”. The DC indicator on the LED display will light up, and the unit will start providing power to your DC12V appliance.

In addition, you can charge car accessories by connecting the Cigarette Lighter Adapter to the DC Outlet of the unit (as below). Switch on the “DC button”, the DC indicator will light up, and start charging DC12V car accessories.

When there are no active charging sessions, the DC output will automatically switch off after 30 seconds, and the unit will enter a low power state.

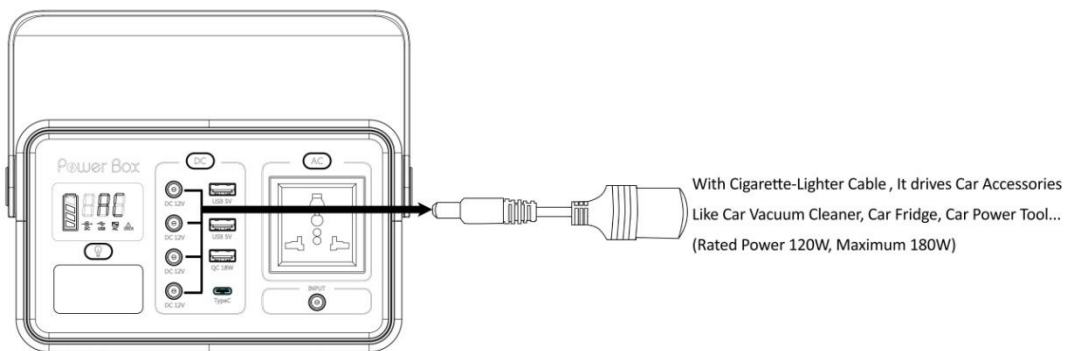
### 1. How to charge DC12V appliances with this unit?

#### DC Output



### 2. How to charge car accessories via DC to Cigarette Lighter Connector?

#### DC Output: Cigarette-Lighter



## Protection Modes:

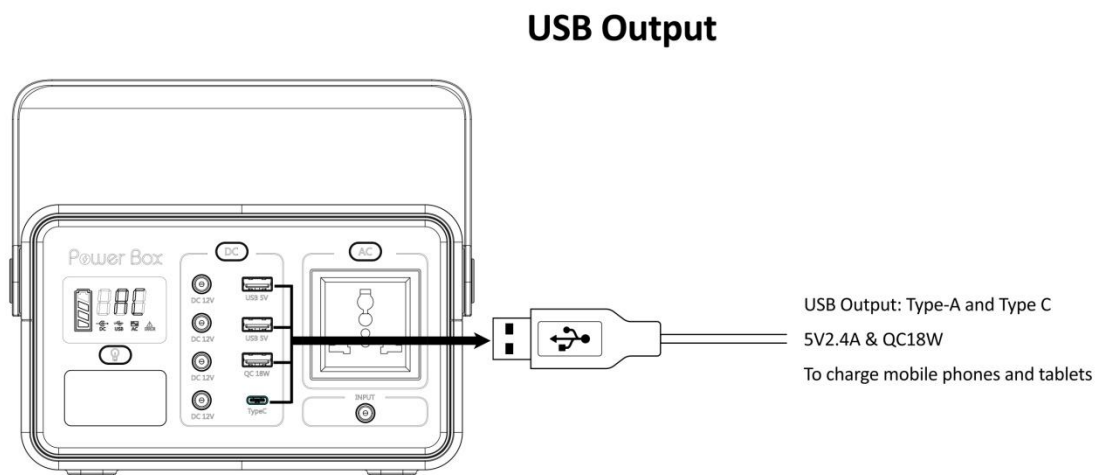
This unit features a range of inbuilt safety features to help protect both this unit, and devices connected to it. These protection features include the following.

1. Low-Voltage Protection: to protect the battery from over-discharge. When the battery is running out of power, the DC output will automatically turn off. Please ensure that the unit is sufficiently charged.
2. Over- Voltage Protection: to protect the electric appliance from burnout. When the battery voltage is detected as too high, the DC output will automatically turn off. And please return it to factory for processing.
3. DC Over-Current Protection: when the total current of DC electric appliances exceeds the maximum allowable current, the DC output will automatically turn off. Please remove some of electric appliances and restart the unit.
4. DC Short-Circuit Protection: when the DC output is short-circuited or overpowered, the DC output will automatically turn off. Please resolve the problem and restart the unit.

## USB OUTPUT

This unit has 2x USB-A (5V/2.4A) outputs, 1x USB-A QC3.0 Quick Charge output, and 1x TYPE C QC3.0 output. Connect the USB cable of the electric appliance to the USB outlet of the unit (as below). Switch on the “DC button”, the USB indicator on the LED display will light up, and the unit will start charging your 5V appliances such as smart phones, tablets, Bluetooth speakers, etc.

When there are no active charging sessions, the DC output will automatically switch off after 30 seconds, and the unit will enter a low power state.



## Protection Modes:

1. Low-Voltage Protection: to protect the battery from over-discharge. When the battery is running out of power, the USB output will automatically turn off. Please ensure that the unit is sufficiently charged.
2. Over- Voltage Protection: to protect the electric appliance from burnout. When the battery voltage is detected as too high, the USB output will automatically turn off. Please return it to factory for processing.
3. USB Over-Current Protection: when the USB current exceeds the maximum allowable current, the USB output will automatically turn off. Please remove the electric appliance, and it will restore automatically.
4. USB Short-Circuit Protection: when the USB output is short-circuited, the USB output will automatically turn off. It will automatically restore after the load is removed.
5. Over-Temperature Protection: during the use of USB output, when the output voltage is large and temperature becomes high, the USB output will automatically turn off. After the temperature drops, USB output will restore automatically.

## Notice: Lock Mode

Some smart devices like Bluetooth headphones and smart watches, require very small input current to charge, which could be less than current detection limitation of the unit. Any such smart devices will not be able to be

charged by the standard USB charging function of this unit.

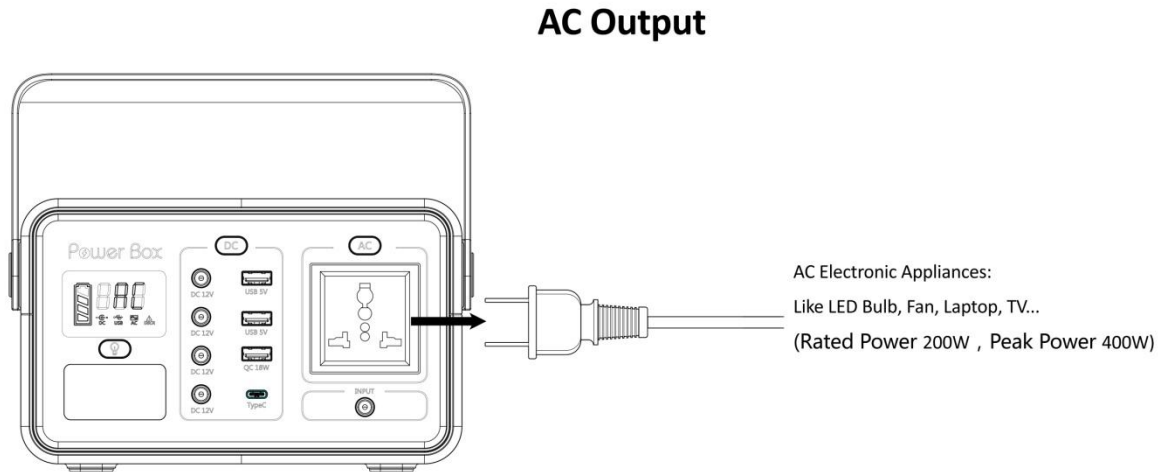
To be able to recharge such devices, long press the “DC button” for 3 seconds. This will turn the “DC Lock On” to keep the USB port output running. Please press the “DC button” to turn off “DC Lock On” when the USB device is fully charged to save power.

When the “DC Lock On” mode is on, the “DC Output” and “USB Output” icons on the LED display will keep blinking. When “DC Lock On” is turned off, the two icons will stop blinking and become solid. DC outputs and USB outputs will turn off.

## AC OUTPUT

This unit has 1x AC Output(100V-240V/50-60Hz, rated power:200W/280W Max, peak power:400W.) The detailed specifications will be customized according to different countries and areas. Please refer to the base of the unit for your specifications.

To use, connect the power cable plug of the electric appliance to the AC outlet. Switch on the “AC button”, the AC indicator on the LED display will light up, and the unit will start providing power to your appliances.



### Protection Modes:

1. Low-Voltage Protection: to protect the battery from over-discharge. When the battery is running out of power, the AC output will automatically turn off. Please ensure that the unit is sufficiently charged.
2. Over- Voltage Protection: to protect the electric appliance from burnout. When the battery voltage is detected as too high, the AC output will automatically turn off. Please return it to factory for processing.
3. Over-Current Protection: when the current of the electric appliance exceeds the maximum allowable current, the AC output will automatically turn off. Please check carefully that the power of your electric appliance is within the power range allowed by this unit.
4. Short-Circuit Protection: when the AC output is short-circuited, the AC output will automatically turn off. Please resolve the problem and restart the unit.
5. Over-Temperature Protection: during the use of AC output, the unit will generate heat. If the temperature becomes too high, the inbuilt fan will automatically start to dissipate heat. This is normal.

### Notice:

1. This unit has a “3 second” delay from pressing the AC button to AC voltage output. This is a soft start delay design. This is normal.
2. In the event of over-current protection or short-circuit protection occurring, this unit will try to restart three times in order to eliminate the protection malfunction caused by a high starting current but low working current of electric appliances. After restarting, AC output will be turned off and will show on LED Display that AC is wrong.
3. When the AC output is on, the inbuilt fan will turn on automatically every 5 minutes, so as to better dissipate heat. Please turn off the AC output after using it.
4. If the ambient temperature is high and the power consumption is large, even if the inbuilt fan is on, the product heat may accumulate to reach the overheat protection value. At this time, please turn off the AC output to protect the inside components from over temperature damage. And use this unit again after the temperature drops, or reduce the load power.
5. In the event of the battery capacity is about to run out, the low-voltage protection of AC output will be turned on before that of DC output, so as to make better use of the remaining power. When the battery has

only 25% power or less, the DC output can be turned on normally while AC output can not, which is normal.

## Warning:

1. Before using the AC output, you must confirm that the AC output voltage and frequency of this unit is matched with those of the electric appliance, so as not to damage the appliance.
2. The power of AC electric appliances you use must be less than the allowable maximum power (200W) of this unit.
3. When the AC port is not in use, turn it off to conserve power.

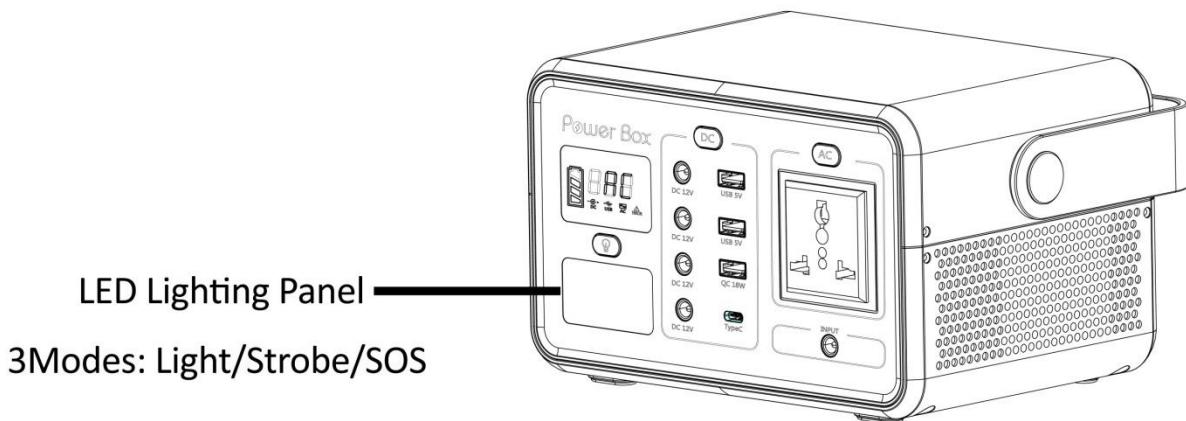
## LED LIGHT

This unit has a built in 3W Ultra bright LED flashlight, which can provide long time illumination for outdoor and emergency occasions.

Press the flashlight button to switch on the flashlight (as below), and a further single press to switch to blink/SOS mode, and then press the button again to switch off.

**Warning: Do not point directly at anyone's eyes to avoid any injury due to the strong light.**

### LED Lighting



## RECHARGING

Connect the charger plug to the DC Input of the unit to charge it. The power indicators will blink to indicate that the unit is charging. When the unit is fully charged all power indicators will stop blinking and remain solid. After the unit is fully charged, remove the charger plug.

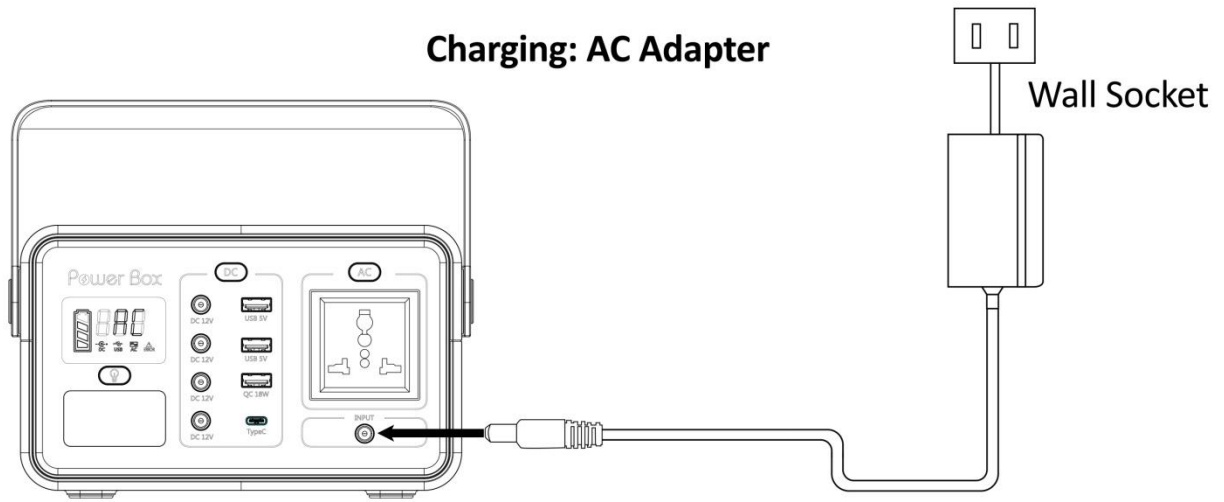
### Protection Modes:

1. Charge Over-Current Protection: this unit has maximum charge current limitation, so as to prevent excessive charge current from damaging the battery and circuit components.
  2. Charge Over-Voltage Protection: this unit has maximum charge voltage limitation, so as to prevent excessive charge voltage from damaging the battery or causing a fire.
  3. Trickle Charge: if the battery is seriously depleted, it will use small current to charge the unit.
- This unit supports 3 ways of recharging (as below). You can use this unit when it's charging.

### 1.Charge through AC adapter

Using the included AC adapter(15V/3A), plug the unit into any wall outlet to quickly charge the unit. The fully charged time is about 6-7 hours. Please remove the AC adapter after the unit is fully charged, so as to ensure the product safety and extend the life of AC adapter.

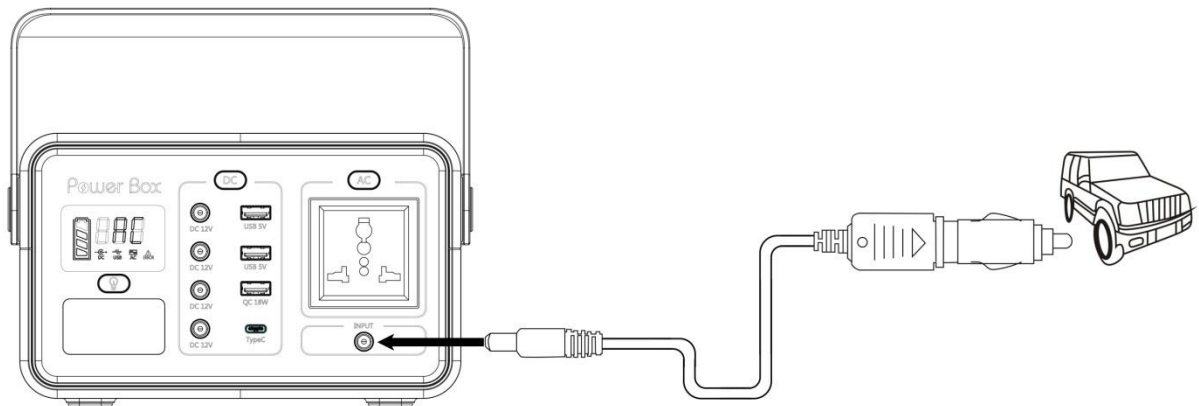
## Charging: AC Adapter



## 2.Charge from your car with a 12V Cigarette Lighter Adapter

Using the included car charger, plug the unit into a 12V cigarette lighter (car port) of your car. To protect your car battery and avoid car battery power loss, please charge this unit when your car engine is started. Please remove the power cable after the unit is fully charged.

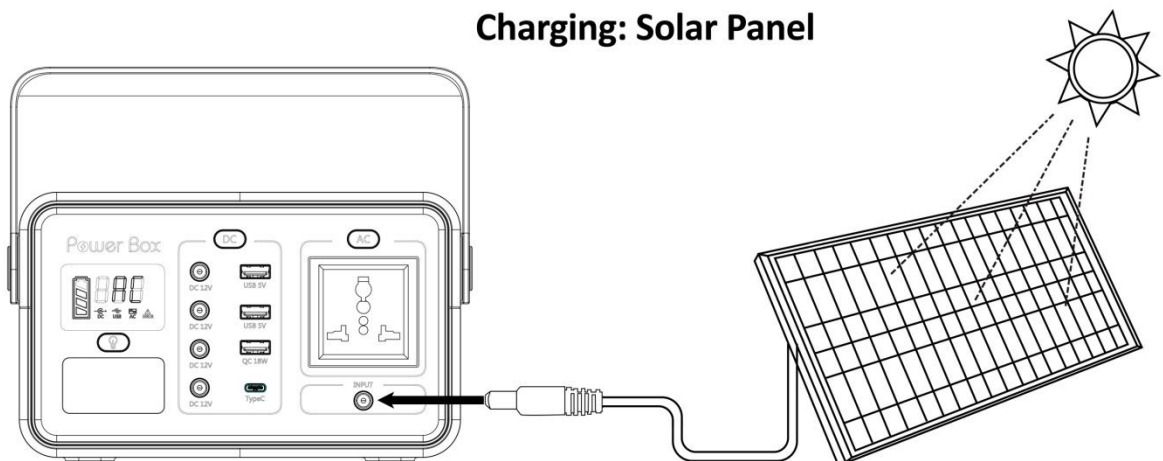
## Charging: Car Charger



## 3.Charge from a Solar Panel

This unit is optimized for improving solar charging efficiency, with MPPT (Maximum Power Point Tracking) function. This supports a 14V-24V charging voltage and a maximum charging current of 3A, to ensure the maximum charging effect in limited sunshine.

## Charging: Solar Panel



## Notice:

1. The actual charging effect of solar energy is related to local effective sunshine, climate, environment and other factors. Please equip solar panels according to local conditions.
2. Place the solar panel in the strongest position in direct sunlight and avoid the shadows shielding the solar panel.
3. If don't use the unit for an extended time, please disconnect the solar panel from the unit.

## PRODUCT NOTES

1. This unit has built-in lithium batteries with no memory effect. Therefore there is no need to activate the batteries by charging and discharging.
2. In order to extend the life of the unit (lithium battery), please charge it regularly and avoid deep discharge.
3. In a low-temperature environment, the battery activity is reduced, and discharge capacity is reduced exponentially, please use the unit in an appropriate environment. Charging and discharging can increase the temperature of the unit to keep battery capacity at its highest.
4. Use this unit in the range of  $+5^{\circ}\text{C} \sim +30^{\circ}\text{C}$ , to obtain the optimal charging capacity.
5. Solar panel is compatible with 14V-22V voltage, and to achieve ideal charging efficiency, we recommend you to use 16V-18V solar panels.
6. The lifecycle of battery charging and discharging is 1000 times. After 1000 times, the capacity will be significantly reduced, and will wear out eventually.

## MAINTENANCE AND SECURITY

1. Use the unit properly to avoid electric shock.
2. Do not charge the unit with a charger that doesn't match this product.
3. Keep the unit away from high temperature, high humidity, high salinity and corrosive environments.
4. Do not expose the unit to direct sunlight.
5. Do not dispose of it in fire.
6. Do not place or store the unit together with bulk metal objects.
7. Do not disassemble or reassemble this unit.
8. Do not intentionally knock, impact, pierce or drop this product.
9. Do not store the unit for a long time under power loss.
10. Do not cover the unit with towels, clothing and other items, so as not to affect heat dissipation.
11. Do not connect the unit with a charger for a long time.
12. Children should be supervised to ensure that they do not play with this unit.
13. Please scrap and recycle this unit in accordance with the regulations.
14. This unit is designed for temporary outdoor and emergency use only. It cannot replace normal alternating current supply.
15. This unit provides a modified sine wave output, when with inductive load such as fan, there may be some working noise. This is normal.

## STORAGE AND TRANSPORTATION

1. The preservation temperature of this unit is  $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$ , to ensure the safety of product storage, please keep it in a dry and cool environment.
2. If the unit is not to be used for a long time, please disconnect all cables and store safely.
3. If the unit is to be stored for an extended period, it's best to charge within 3 months and charge at least once within 6 months, so as to extend the life of the unit.
4. Please take care when transporting the unit. Do not drop it and do not press it heavily. Ensure that it is securely restrained in any vehicle.

## RECYCLING

This product is made of lead free materials, and it's difficult to degrade naturally. In the process of degradation, it will cause a certain pollution to the environment, and produce precious metals and rare metals. To protect



the environment and make good use of natural resources, please return your used electronic products, batteries and packaging materials to dedicated collection points.

## STATEMENT

Our company is the only manufacturer of this product and user manual, and apply for various patents. Without the permission of our company, no individual or unit may imitate, reproduce or extract without authorization.

Violators will be held liable for the corresponding legal liability.

This user manual will be updated from time to time based on the product version upgrade, unless otherwise stated. Please refer to our website for any updated versions.

Please use this unit strictly in accordance with this user manual. If any accidents caused by violating indication requirements, user bear the consequences.



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