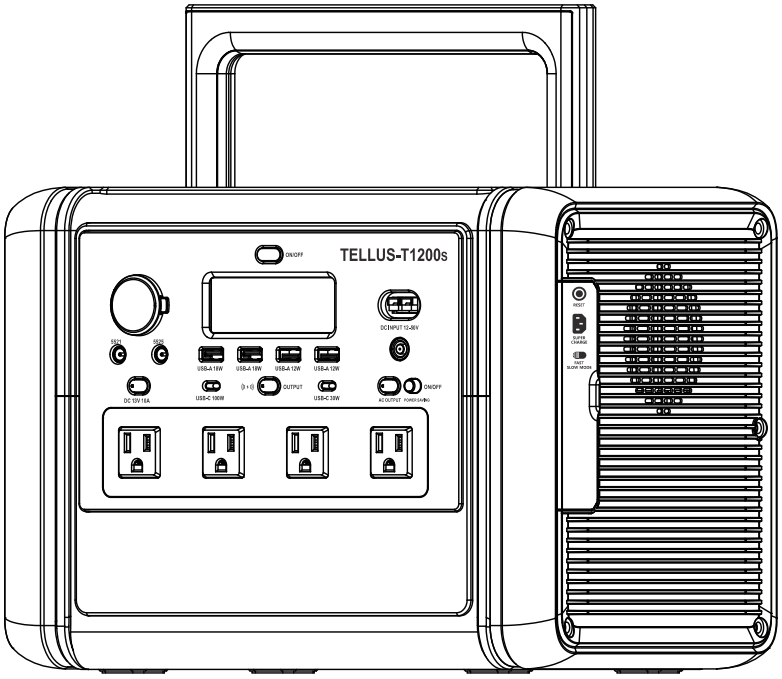
TELLUS-T1200s
User Manual V1.0



Disclaimer

Read this user manual carefully before using the product to ensure that you completely understand the product and can correctly use it.After reading this user manual ,keep it properly for future reference.Improper use of this product may cause serious injury to yourself or others,or cause product damage and property loss.Once you use this product,it is deemed that you understand,approve and accept all the terms and content in this document. is not liable for any loss caused by the use's failure to use this product in compliance with this user manual.

In compliance with laws and regulation,WeldTec reserves the right to final interpretation of this document and all documents related to this product.This document is subject to changes (updates,revisions,or termination) without prior notice.Please visit official website to obtain the latest product information.

WARRANTY CARD

Name		Mailbox	
Single number		Address	
Specifications		Telephone number	
Code		Date	

1.Warranty for one year, accessories are not covered by the warranty
2.The warranty service is valid only under normal use
3.All man-made damage, self-dismantling, unsealing labels, improper use of all the appearance of damage, not within the scope of the warranty. If this card is not provided or altered, the company has the right to make non-warranty treatment.

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1. Specifications

1.1 TELLUS-T1200s specifications

Basic parameters

NET weight	12.45Kg
Size	343x212x245mm
Capacity	768Wh,25.6V ⎓ 30Ah

Output specifications

AC output	Pure sine wave, total 120V/60Hz 1200W（Peak 2400W）
USB-C1(X1)	5V⎓3A、9V⎓3A、 12V⎓3A、15V⎓3A、20V⎓3A、20V⎓5A Constant pressure，Maximum power 100W Max
USB-C2(X1)	5V⎓3A、9V⎓2A、 12V⎓2.5A、15V⎓2A、20V⎓1.5A、 Constant pressure，Maximum power 30W Max
USB-A1(X2)	5V⎓3A、9V⎓2A、 12V⎓1.5A、 Constant pressure，Maximum power 18W Max
USB-A2(X2)	5V⎓2.4A、Maximum power 12W Max
Wireless charging output	5W/7.5W/10W/15W Max
Cigarette lighter Output(X1)	13V⎓10A,Maximum power 130W Max
DC5525(X1)	13V⎓10A,Maximum power 130W Max
DC5521(X1)	13V⎓10A,Maximum power 130W Max

Cigarette lighter Output DC5521/DC5525 power sharing, the maximum output 130W

Input specifications

AC Input	AC Super Charge，Fast charge maximum power 700W
AC input voltage/frequency	100-120V~60Hz
Solar charging input（Anderson interface）	12-50V⎓10A,Maximum power 400W
DC adapter or car charging input（DC7909）	12-50V⎓10A,Maximum power 400W

Battery specifications

Battery material	LiFePO4
Cycle life	3500 + cycles after the remaining capacity of more than 80%
Type of protection	High-temperature protection, low-temperature protection, over-discharge protection, over-charge protection, overload protection, short-circuit protection, over-current protection

Operating temperature

Optimum ambient temperature	20°C to 30°C（68°Fto 86°F）
Discharge ambient temperature	-20°C to 40°C（-4°F to 104°F）
Charging ambient temperature	0°C to 40°C（32°F to 104°F）
Storage environment temperature	-20°C to 40°C(-4°F to 104°F)（20°C to 30°C optimal) (68°F to 86°F optimal)

Whether the product can be charged or discharged depends on the actual temperature of the battery pack

2. Safety guidelines

2.1 Usege

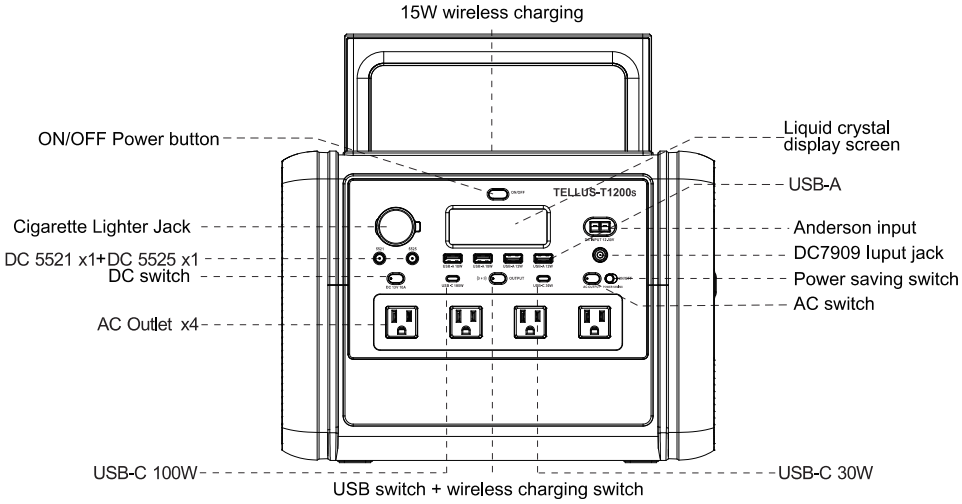
1.Do not use the product near a heat source,such as a fire source or a heating furnace.
2.Avoid contact with any liquid.Do not immerse the product in water or get it wet.Do not use theproduct in rain or humid environments.
3.Do not use the product in an environment with strong static electricity/magnetic fields.
4.Do not disassemble the product in any way or pierce the product with sharp objects.
5.Avoid using wires or other metal objects that may result in a short circuit.
6.Do not use unofficial components or accessories.If you need to replace any components or cccessories,please visit official WeldTec channels to check relevant information.
7.When using the product,please strictly follow the opetating environment temperature specified in this user manual.If the temperature is too high,it may result in a fire or explosion;if the temperature is too low,the product performance may be severely reduced,or the product may cease to work.
8.Do not stack any heavy objects on the prodct.
9.Do not lock the fan forcibly during use.
10.Please avoid impact,falls,or severe vibrations when using the product.In case of a severe external inpact,turn off the power supply immediately and stop using the product.Ensure the product is well fastened during transportation to avoid vibrations and impacts.
11. If you accidentally drop the product into water during use,please place it in a safe open area,and stay away from it until it is completely dry.The dried product should not be used again,and should be properly disposed of according to section"Disposal Guide"below.If the product catches fire,we recommend that you use the fire extinguishers in the following order:water or water mist,sand,fire blanket,dry powder,and finally a carbon dioxide fire extinguisher.
12.Use a dry cloth to clean off dirt on the product ports.
13.Rest the product on a flat surface to avoid damages caused by the product falling over.If the product is overturned and severely damaged,turn it off immediately,place the battery in an open area,keep it away from commbustible matter and people,and dispose of it in accordance with local laws and regulations.
14.Ensure that the product is kept out of reach of children and pets.
15.Store the product in a dry and ventilated place.
16.It is recommended to use moisture barrier bags in wet environments(for example,places by the sea or waterways)to prevent the product from getting soaked.If water is found inside the product,it must not be used or turned on again.Please take anti-eletric shock measures before touching the product.Following this,place the product in a safe,waterproof and open area.Once complete contact WeldTec Customer Service immediately.
17. This product is not recommended for powering medical emergency equipment related to personal safety,including but not limited to medical grade ventilators(hospital version CPAP:Continuous Positive Airway Pressure),artifical lungs(ECMO,Extracorporeal Membrance Please follow your doctor's instructions and consult with the manufacturer for restrictions on the use of the equipment. If used for general medical equipment,please be sure to monitor thepower status to ensure that the power dose not run out.
18.When in use,power supply products will generate electromagnetic fields,which are likely to affect the normal operation of medical inplants or personal medical equipment such as pacemakers,cochlear implants,hearing aids,defibrillators etc.If these types of medical equipment are being used,please contact the manufacturer to inquire about any restriction on the use of such equipment.These measure are foundamental to ensure a safe distance between the medical implants(for example,pacemakers,cochlear inplants,hearing aids,defibrillators etc.)and this product while in use.
19.When the power supply is connected in normal mode to a refrigerator,power fluctuations may cause the power supply to automatically shut down.When connecting thw power supply to a refrigerator that stores medicine,vaccines or other valuable items.In connection with power products, please be sure to turn on the AC output to"Never off" state to ensure continuous power supply, users should pay attention to power consumption.

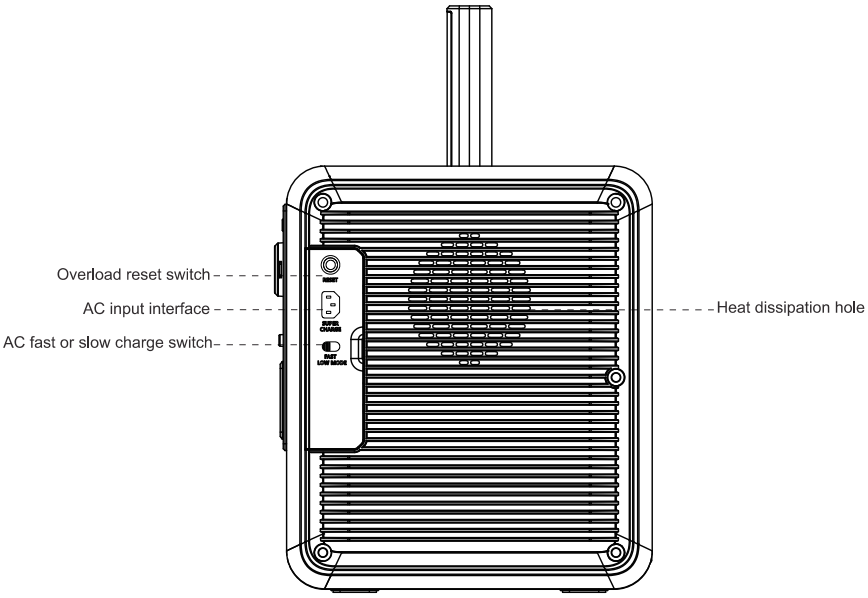
2.2 Abandoned

1.If conditions permit, make sure that the battery is fully discharged before disposing it in a designated battery recycling bin.The product contains batteries with potentially dangerous chemicals,so it is strictly prohibited to dispose of it in ordinary trash cans.For more details,please follow the local laws and regulations on battery recycling and disposal.
2.If the battery cannot be fully discharged due to a product failure,please do not dispose of the battery directly in the battery recycling box.In such case,you should contact a professional battery recycling company for further processing.
3.Please dispose of over-discharged batteries that cannot be recharged.

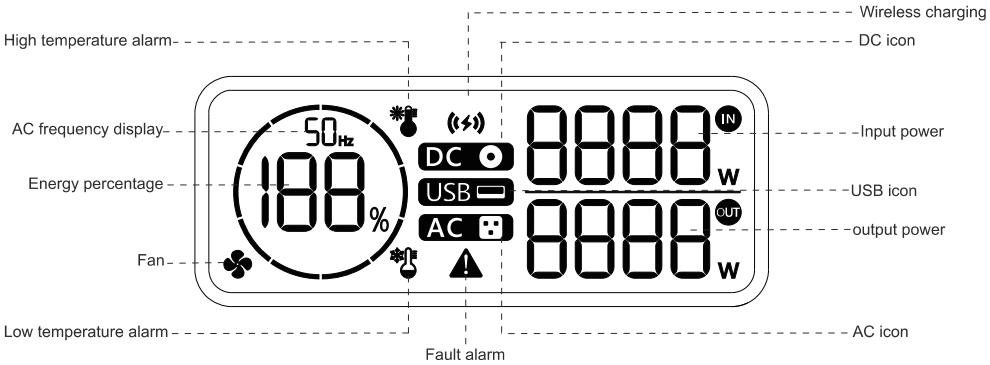
3. Guidelines

3.1 Product presentation





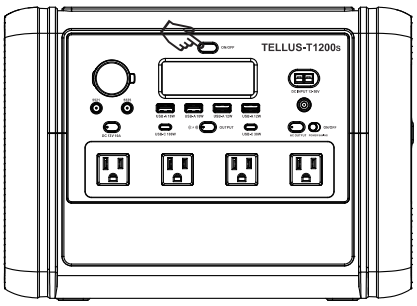
3.2 Introduction of screen icons



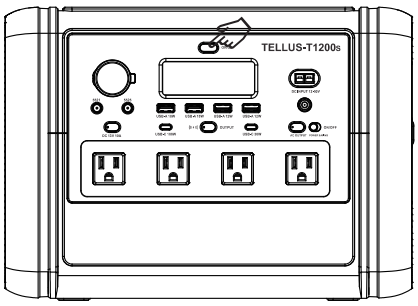
Battery power display: When the product is charged, the icon turns clockwise; When the product battery is below 10%, the icon flashes. See Section 5 for more information on fault display and handling.

3.3 Product usage

Long press 2S to power on

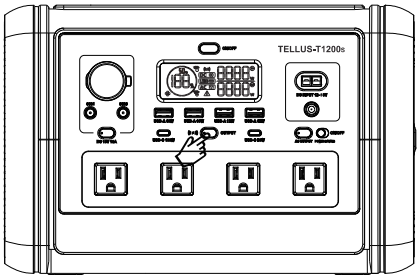


long press 2S to power off



ON/OFF Switch
After long press ON/OFF for 2 seconds, the startup screen displays all contents for 1s. Display power percentage, power bar, input and output power and W after starting; Press and hold for 2 seconds to shut down.

Screen display
1.After the boot, do not open any output, the screen is fully bright for 180 seconds; Then half light, keep half light for 10 minutes, turn off.
2, After the boot, open the output without load, the screen is fully bright for 180 seconds; Then half light, open port light load off after the half light for 10 minutes, shut down.
3. In full light state, press ON/OFF to turn off the screen. If the screen is half-on, press any key to turn it ON. Press ON/OFF to turn off the screen.
4. Open the no-load no-end port after startup, click ON/OFF to turn off the screen, and shut down for 10 minutes.
5, No load after the boot port opens, click ON/OFF to turn off the screen, hit the start light load off, 10 minutes to shut down.



Press the USB switch

Use USB and wireless charging output

After the power supply is turned on, press the USB/ wireless charging button to turn on the USB and wireless charging ports. Press the USB/ wireless charging button again to turn it off.

When the USB and wireless charger are not loaded or the light load shutdown current is less than 50mA, the output is turned off after 6 hours, and the USB or wireless charger icon is off.

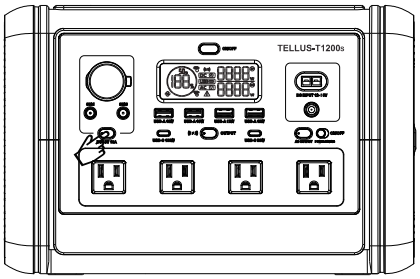
USB and wireless charging

In the startup state, click the USB button to enable the output of USB and wireless charging.

Click the USB button again to turn off the output of USB and wireless charging.

USB and wireless charging light load shutdown time is 6 hours.

Wireless charging module with metal foreign matter detection, if the mobile phone and other metal placed in the wireless charging module area, will trigger the alarm.



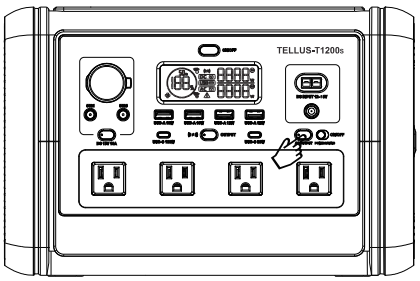
Press the DC output switch

Use DC5521/DC5525 and cigarette lighter

After the main power is turned on, press the DC output switch to turn on the DC output port.

Press the DC output power switch again to turn it off.

When the DC output power switch is turned on and loaded, the product will not automatically shut down. After 6 hours without load, it will automatically stop working.



Press the AC output switch

Use AC output

After the main power supply is turned on, press the AC output switch to turn on the AC output port.

Press the AC output power switch again to turn it off.

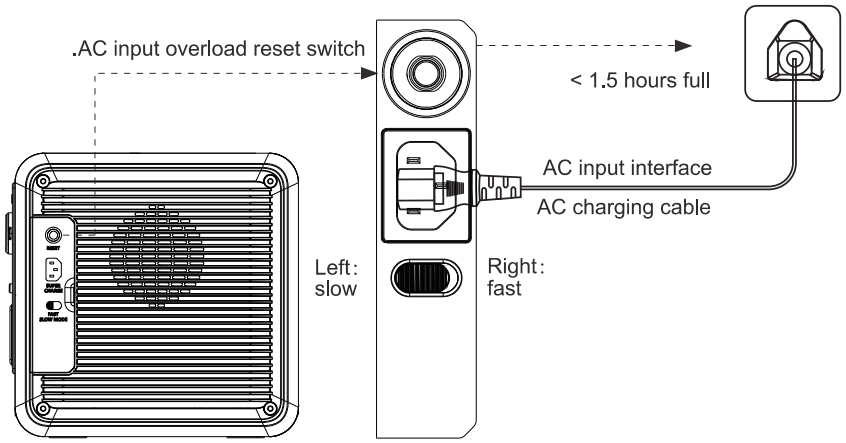
The standby time of the power saving mode switch of the AC output port is 6 hours by default.

After 6 hours without any load on the AC output port, the AC output power automatically turns off. If this function is not enabled, the AC output is always enabled.

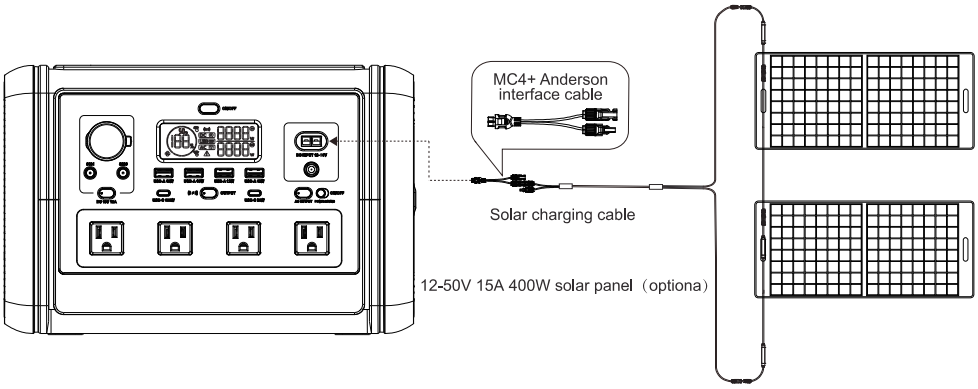
When the AC output is not in use, turn it off in time to avoid battery power loss caused by the power consumption of the inverter.

3.4 AC charging

TELLUS 'fast charging technology is designed for AC charging. You can control the full speed by AC speed charge. Fluctuation from left to left indicates slow charging, and fluctuation from right to right indicates fast charging (maximum AC charging power). When the AC input current is continuously higher than the set value the charging input port will start protection, and the AC input reset switch on the product will automatically spring up. After confirming that the product has not failed, you can press the overload protection switch to restore the charge.
Warning: 1. When using the power grid to charge the equipment, please check whether the ground wire of the power grid is well grounded, if there is no grounding, there will be potential safety hazards of electricity use, and it may interfere with the terminal electrical equipment when charging and discharging at the same time. 2. Please use the original standard AC power cord.



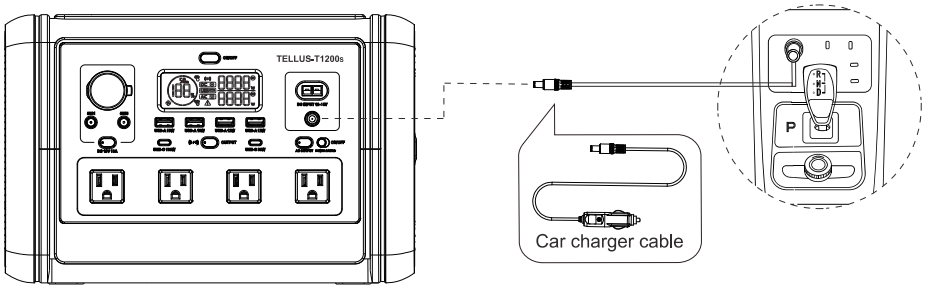
3.5 Solar charging



MC4+ Anderson interface cable
When using solar panels to charge products, connect according to the user manual specifications.It is recommended to use a 12-50V 15A 400W solar panel for charging.
Before connecting the solar panel, ensure that the output voltage range of the solar panel is within the product specifications to avoid damage to the product.

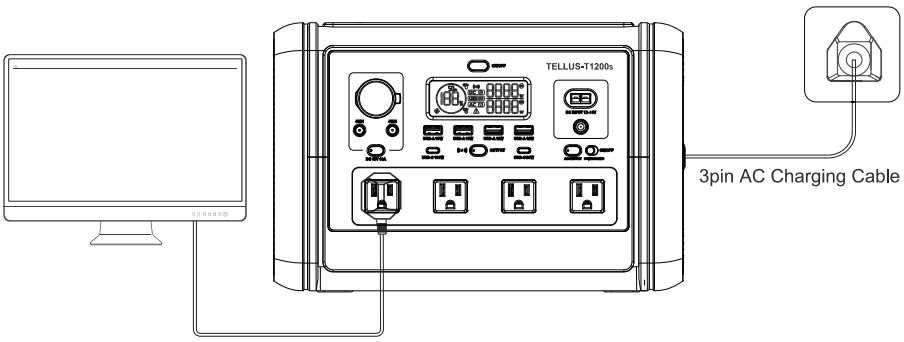
3.6 Car charging

This product can be charged by the car charger on the car, and it should be charged by the car after the car is ignited and started, so as not to cause the car battery to lose power and cannot be started. At the same time, ensure that the car charging port and the car charging input line cigarette lighter are in good contact. If the loss is caused by non-compliance with the provisions of the operation, the company will not assume the corresponding responsibility.



3.7 EPS function

This product supports the EPS(Emergency backup) function. When you connect the power grid to the AC input port of this product through the AC charging cable, the electrical appliance can use the AC output outlet of this product to work (AC power comes from the power grid, not the battery). When the power grid suddenly fails, this product can automatically switch to the battery power mode within 30mS. This function is a non-professional UPS function and does not support 0mS switching. Do not connect it to devices that require uninterruptible power supply, such as data servers and workstations, or use it after verifying compatibility with the test. It is recommended to use only one device during use, and do not use multiple devices to avoid overload protection of the product. The company shall not be responsible for the failure of the equipment to operate normally or the loss of data caused by the failure to follow the instructions.



4.Frequently questions

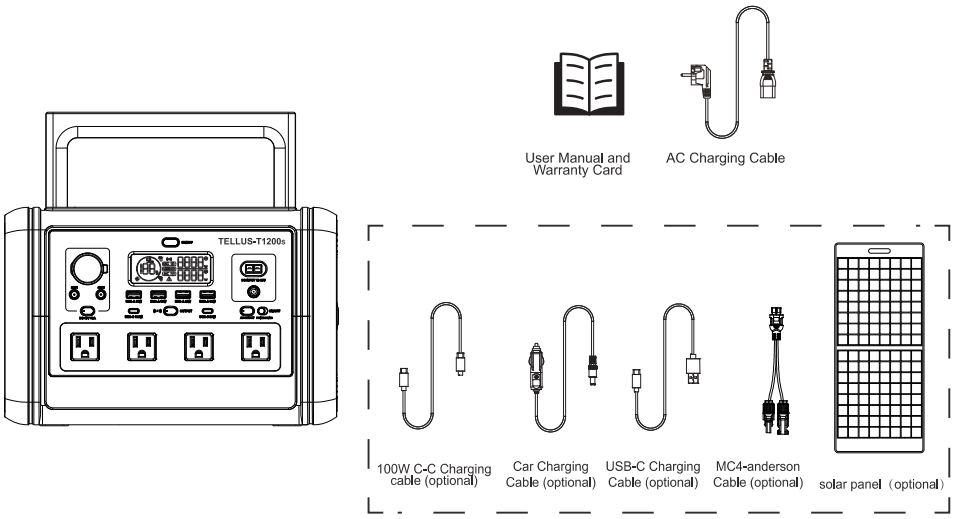
1.What type of battery does the product use?
This product uses high-quality lithium iron phosphate batteries。
2.What equipment can the AC outlet carry?
The rated power of the AC output of this product is 1200 W, and the peak power is 2400W. which can supply power to some household electronic devices, but it is recommended that you confirm the power of the electrical appliances before use, and ensure that the sum of the power of all load devices is not greater than the rated power.
3. How to know the charging power when the product can be loaded?
The LCD screen of this product has the input and output power display, you can directly see the power parameters.
4.How to tell if the product is charging?
When charging, the LCD display displays the charging power and the percentage of electricity, and the battery power indicator circle outside the 100 percent rotates and displays the input power.
5. How to clean this product?
Please use a dry, soft, clean cloth or paper towel to wipe the product.
6.How to store products?
When storing, please turn off the product first, and then store it in a dry, ventilated and warm place. Do not plant near water sources. For long-term storage,
Every three months to discharge the battery to 30%, and then charge to 60%, in order to extend the service life of this product.
7. Can I bring this product on the plane?
Can not be.

5. Fault display and handling

	exception icon content	exception display content	recovery method
	High temperature status display icon	High-temperature protection	Remove the abnormal load, the normal load can press the corresponding keys to restore normal output
	low temperature status display icon	low-temperature protection	Remove the abnormal load, the normal load can press the corresponding keys to restore normal output
	fault prompt display icon	short circuit, over-current, reverse connection, over-voltage under-voltage, over-charge, over -discharge abnormal protection	Remove the abnormal load, the normal load can press the corresponding keys to restore normal output

If an alarm occurs during the use of the product, and the warning icon still does not send a message after restarting the machine, stop using the product immediately (do not try to charge or discharge). If the above information can not solve your problem, please contact customer service for consultation.

6. List of accessories



7. How to maintain

1. It is recommended to use or store this product in an environment of 20 ° C to 30 ° C, away from water, heat sources, and other metal objects.
2. If long-term storage is required, please charge the product once every 3 months (that is, discharge the product to 30% and then charge it to 60%).
3. For safety reasons, do not store this product in an environment higher than 45 ° C or lower than -10 ° C for a long time.
4. In order to extend the life of the battery, it is recommended to use this product in an environment of 20℃ and 30℃.
5. If the power of this product is less than 1% after use, please charge it to 60% and then store it. If it is left idle for a long time in the case of serious power shortage, it will cause irreversible damage to the battery cell and shorten the service life of the product.
6. If the power of the product is seriously insufficient and the idle time is too long, the product will enter deep sleep mode, and the product needs to be charged before being used again.

8. FCC Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1)this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled envi ronment. This equipment should be installed and operated with minimum distance 20cm bet ween the radiator & your body.