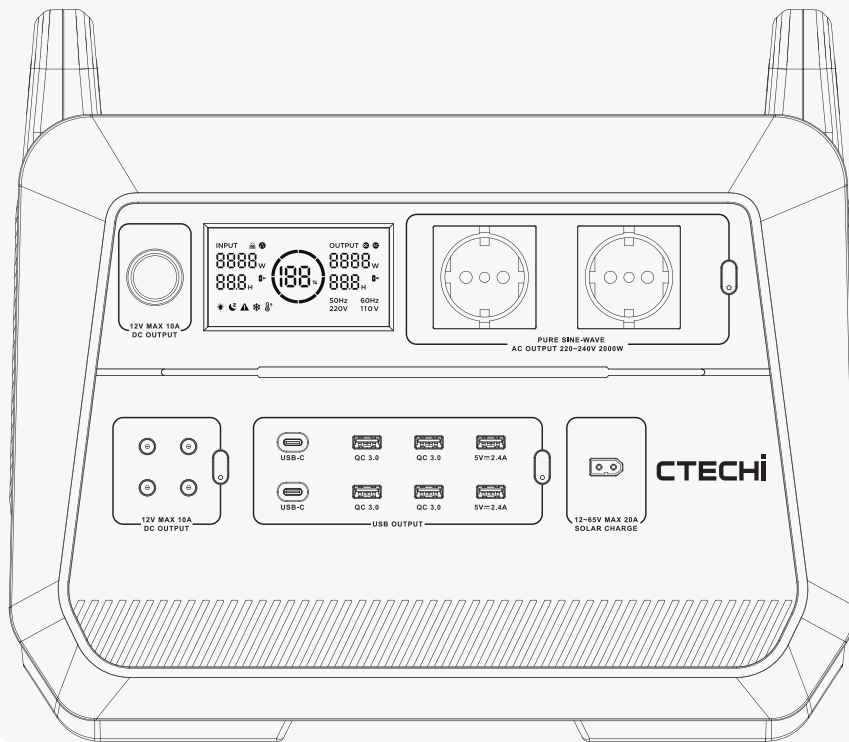


1.5 **LiFePO4 Battery**
Hours Full



ST2000

Portable Power Station

User manual

1/Safety Instructions

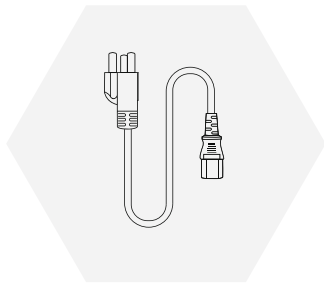
WARNING - When using this product, basic precautions should always be followed, including the following:

Read all the instructions before using the product.

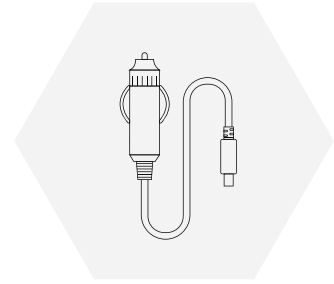
- 1.To reduce the risk of injury, close supervision is necessary when the product is used near children.
- 2.Do not put fingers or hands into the product.
- 3.Do not expose the product to rain or snow.
- 4.Use of a power supply or charger not recommended or sold by the product manufacturer may result in a risk of fire or injury to persons.
- 5.Do not use the product that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.
- 6.Do not disassemble the product. Take it to a qualified service person when service or repair is required. Incorrect reassembly may result in a risk of fire or injury.
7. Have servicing performed by a qualified repair person using only identical replacement parts. This will ensure that the safety of the product is maintained.
- 8.Turn off when not in use.
- 9.Store product in a cool and dry place.
- 10.Do not store the product in a hot or humid environment.
- 11.Operating temperature should be between -10°C and 40°C.
- 12.If the product is not used for long periods of time, you should charge and discharge once every three months.
- 13.When charging a device, the product may feel warm, this is a normal operating condition and should not be cause for concern.
- 14.In normal conditions, the battery performance will decline over several years.
- 15.Do not clean the product with harmful chemicals or detergents.
- 16.Misuse, dropping or excessive force may cause product damage.
- 17.When disposing of secondary cells or batteries, keep cells or batteries of different electrochemical systems separate from each other.

*The picture is only for reference, please make the object as the standard

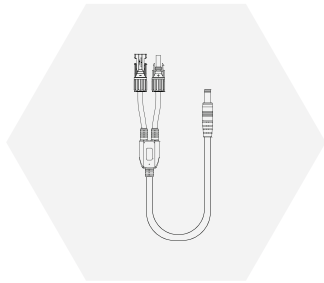
2/What's In The Box



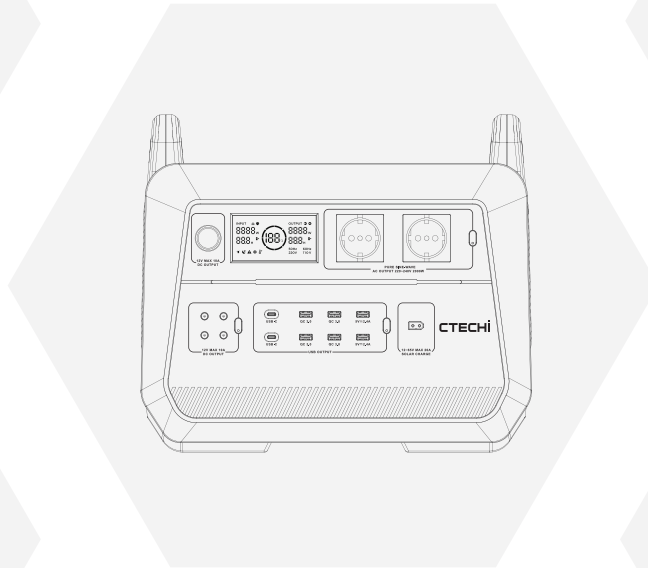
Power Charging Cable X1



Car Charger Cable X1



MC4 Solar Charging Cable X1

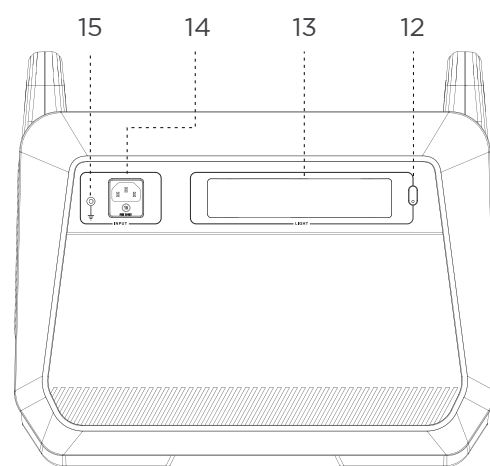
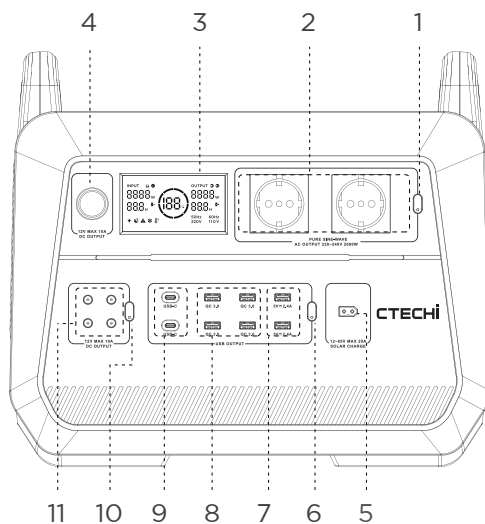


Portable Power Station X1



User Manual X1

3/Product Overview



1.AC Switch Button

2.AC Output Socket

3.LED Display

4.DC Car Charger Output Port

5.XT60 Input Port

6.USB Switch Button

7.USB Output Port

8.QC3.0 Output Port

9.USB-C Output Port

10.DC Switch Button

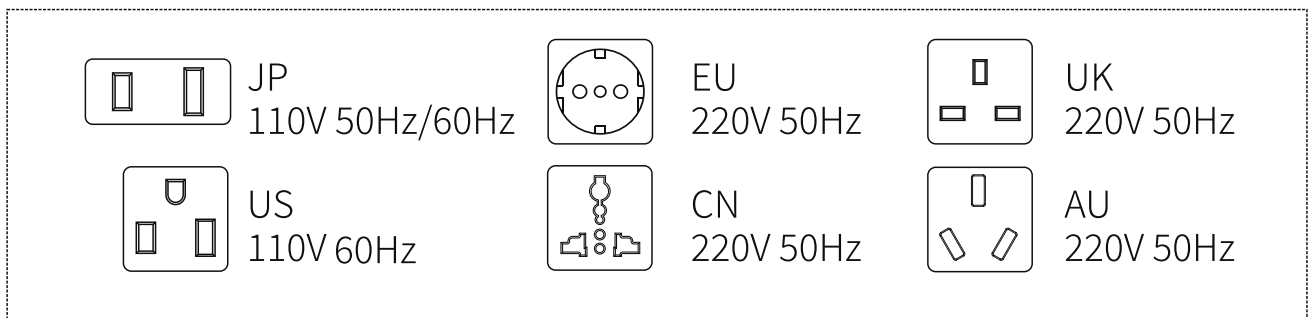
11.DC Output Port

12.LED Light Switch Button

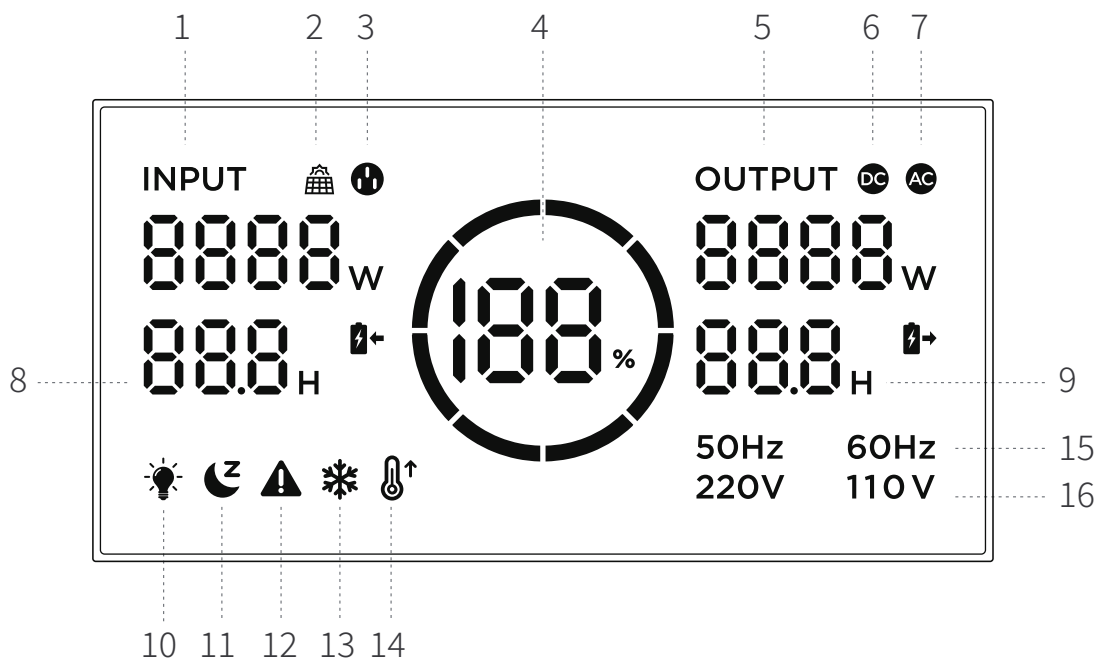
13.LED Light

14.Charging Port With Protector

15.Grounding Port



4/LED Display



5/LED Indicator Icon Meaning

INPUT



1. When charging, the total input power of charging is displayed. Otherwise, 0W is displayed.



2. Indicates that the solar panel is currently charging the product.



3. Indicates the current AC power status.



4. Indicates the current battery capacity, the orange circle scrolls while the unit is recharged.

OUTPUT



5. After turning on and connecting the appliance, the input power to the appliance is displayed.



6. When the icon is on, it means that the current total output power of DC, USB and LED light board.



7. When the icon is on, it means that the current power is the AC inverter output power.



When the two icons are lit at the same time, it indicates the total output power.



8. The remaining charging time is displayed.



9. Indicates how long the battery will last.



10.This icon lights up to indicate that the LED is on.



11.This icon means that it is currently in hibernation mode.



12.When it is on, it means that the current working status is abnormal, otherwise it will not be displayed.



13.When it is always on, it means charging is prohibited at low temperature, and when it is flashing, it means discharging is prohibited at low temperature. Normally, it does not display.



14.When it is always on, it means charging is prohibited at high temperature, and when it is flashing, it means discharging is prohibited at high temperature. Normally, it does not display.

50Hz
60Hz

15.After the inverter is turned on, the current inverter output frequency is displayed as 50Hz or 60Hz, otherwise it will not be displayed.

220V 110V

16.After the inverter is turned on, it will display 110v or 220v, otherwise it will not display.

1.General Error Code Explanations:

dCOC: DC over-current or short-circuit fault. Abnormal USB output will not display the abnormal code.

2.Other Abnormal Display:

E+abnormal source+code number.

Abnormal Source: 0 means DC fault, 1 means AC (inverter) fault (If the product is shut down because of AC abnormal, there is no fault code to be displayed).

Error Code: 1/2 means output short circuit or over current, 3/4 means over temperature, 5 means input over voltage, 6 means input under voltage, 9 means abnormal fan, a indicates that the AC power-on or power-off status is not confirmed (automatically cleared).

6/Switch Button

1.AC Switch Button

Power On: Long press the AC switch button for 2S to power on, the LED screen and the AC indicator light up at the same time, The icon lights up, indicating that the AC output is normal.

Turn Off: Click the AC switch button to turn off the AC output, while the AC indicator flashes, the AC interface enters the shutdown state.After 5 seconds (the AC indicator will go off), a beep sounds and the AC output is turned off.

2.DC Switch Button

Power On: Press and hold the DC switch button for 2S to power on, then the LED screen and DC indicator light up at the same time and the icon lights up, indicating that the DC output is normal.

Turn Off: When USB, AC, LED light are all turn off, short press DC Switch button to turn off the portable power station totally.

DC(5521)*4 output port and car cigarette lighter share the same DC switch button.

3.USB Switch Button

Power On: Press and hold the USB switch button for 2s to power on, the LED screen and USB indicator lights up at the same time and the icon lights up, indicating that the USB output is normal.

Turn Off: When DC, AC, LED Switch buttons are all turned off, short press the USB switch button to turn off the host.

4.LED Light Switch Button

Press 1S to turn on the LED, the icon lights up automatically, press and hold 3S to turn on the SOS mode, short press to turn off the LED.

7/Super Fast Charging Technology

- 1.Support fast charge, fully charge in 1.5 hours
- 2.Support big power solar charging (500W)
- 3.Support UPS
- 4.Intelligent inverter system
- 5.Support automatic frequency switching (manual setting is required for off-grid)

8/Output and Input Port

1.AC Input Port

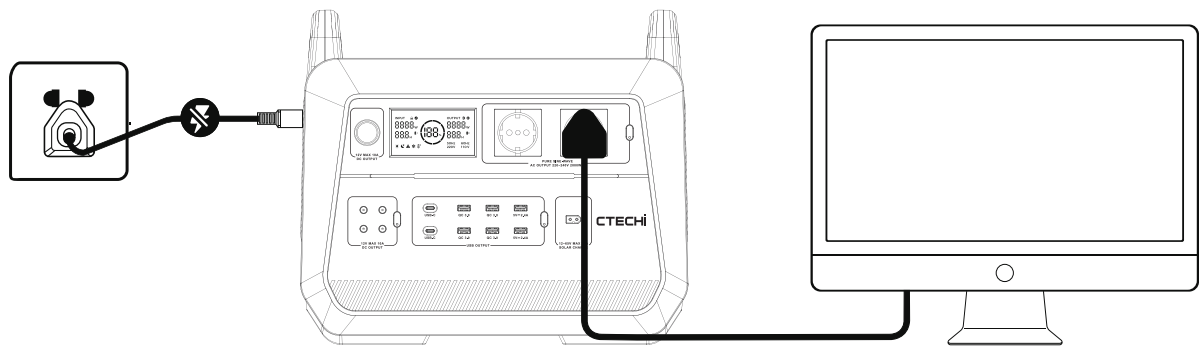
Connect the power charging cable to AC socket to charge the product. The display will light up to show the charging power and duration, and at the same time the AC output is turned on, means you can charge and discharge at the same time. When the input current is continuously greater than 20A during charging, the AC charging port will be protected (shown as a button pop up). After confirming that the machine is not malfunctioning, press the protection switch to reset to resume charging.



Mains Fast Charge Within 1.5 Hours

2.UPS Function

The product has an entry-level UPS function that supports simultaneous charging and discharging. When the main power grid is suddenly cut off, it can automatically switch to supply power from the product host within 15ms. (This function is a non-professional UPS function, and does not support Oms switching. Please do not connect it to equipment that requires high level uninterrupted power supply, or please check compatibility after multiple tests, such as data services and workstations).



Important Tips: When it is being charging and discharging at the same time, the output power display is electrical appliances power, and the input power is changing according to the output power changing.

1. When the input power is higher than the output power, the input value showing on the screen is the total input power minus the total output power. The output value showing on the screen is the power of household electric appliance.

2. When the input power is lower or equal to the output power, the input value showing on the screen is 0. The output value showing on the screen is the power of household electric appliance.

3. DC5521 Output Ports

The output port DC is used to charge the device adapted to the DC5521. When the DC output port is working, the icon will light up automatically, and the support maximum 10A (120W).

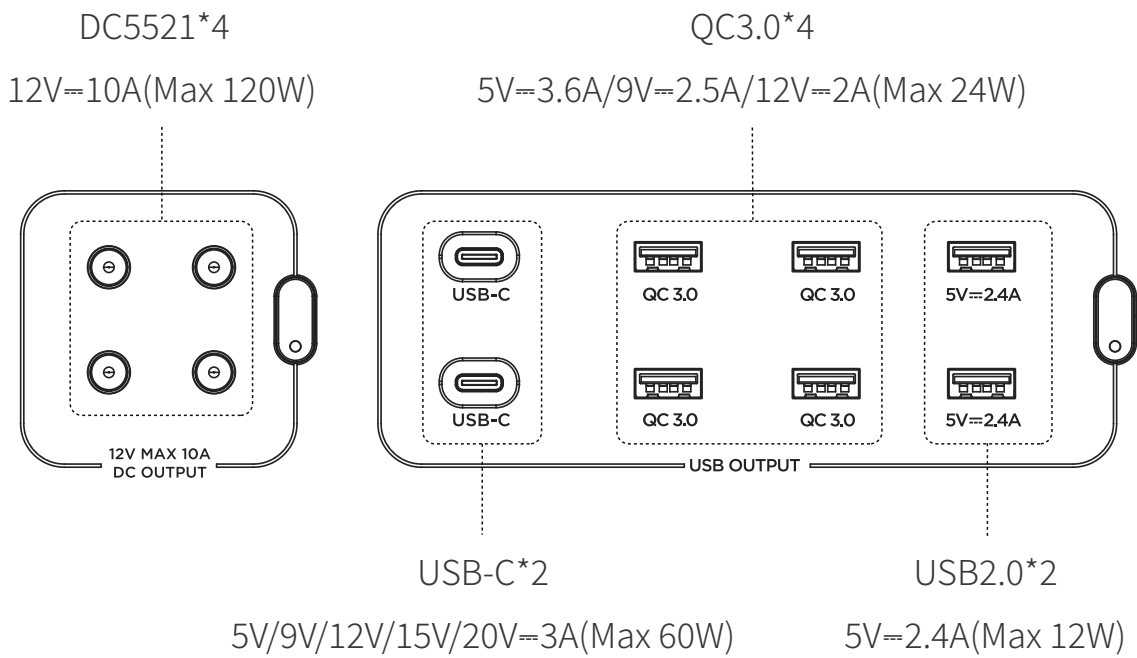
4. DC Car Cigarette Lighter Output Port

Power On: Long press DC switch button for 2S, The icon lights up, indicating DC(5521) *4 output port and car cigarette lighter are working at the same time.

Turn Off: When USB, AC, LED light are all turn off, short press DC switch button to turn off the portable power station totally.

DC(5521)*4 output port and car cigarette lighter share the same DC switch button.

5.DC/USB-C/QC3.0/USB



6.QC3.0 Output Port

It is QC Fast charging port when use alone, support QC2.0/3.0, FCP, AFC, BC1 .2, APPLE , SAMSUNG, VOOC protocol. When used at the same time, support 5V/2.4A. When used, DC icon lights up automatically.

7.USB-C Output Port

Support PD60W output. Compatible with PD2.0/3.0, QC2.0/3.0, MTK PE+1.1, FCP, compatible with BC1.2/APPLE/SAMSUNG Charging agreement. This interface can automatically awaked the DC board by plugging and unplugging. USB-C1 support DC board firmware upgrade. USB-C port is not controlled by the switch.

8.USB Output Port

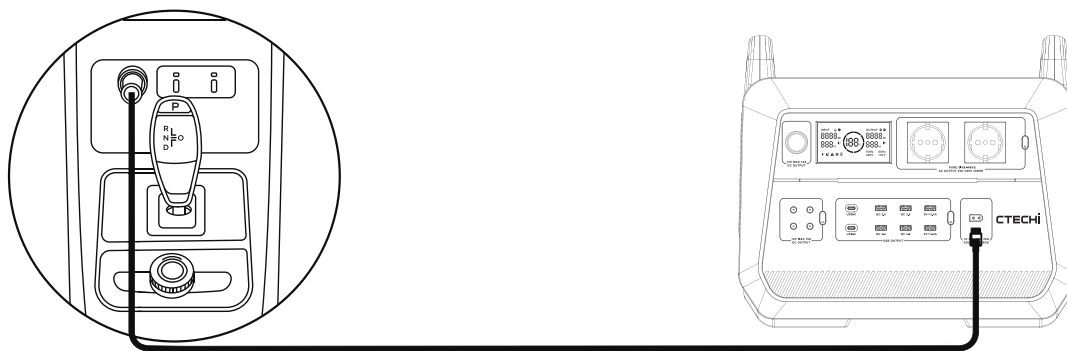
Ordinary USB port, support BC1.2, APPLE protocol. Support 5V/2.4A, when used, the icon is on.

9.XT60 Input Port

XT60 interface, this is input port for car charging or solar photovoltaic panel charging. The input voltage range is 12-65V, the maximum input current is 20A, and the maximum input power is 500W. When using solar photovoltaic panels alone, the icon will automatically light up.

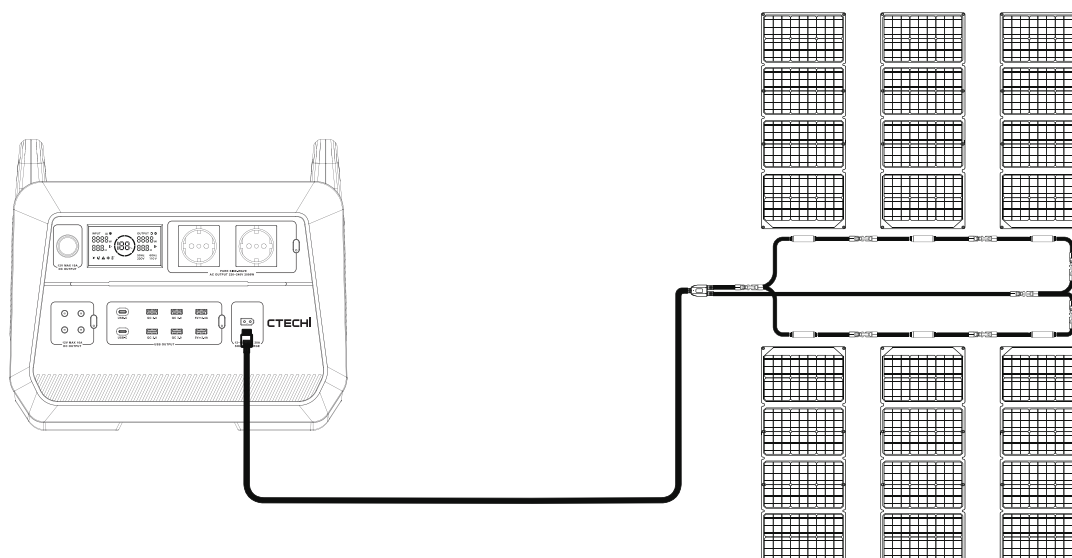
10.Charging Method One:

Car charge through XT60 port



11.Charging Method Two:

Solar panel charge through XT60 port



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 shall prevail.

9/MPPT Technology

This product has built-in MPPT (Maximum Power Point Tracking) technology, which can be charged efficiently through solar panels. MPPT technology is designed for use in wind turbines and photovoltaic (PV) solar systems to maximize power extraction under all conditions. Through the MPPT technology, the product can compare the output voltage of the solar panel and the battery voltage in real time, and then intelligently identify the best power output for charging to maximize the battery charging efficiency.

10/Combination Button Function

The USB switch, LED switch, and DC switch can form a combination button. The combination button is effective for a long time after setting. It needs to be set when the machine is turned on.

1.Hibernation Mode Switch: Press and hold the USB switch button, click the DC switch button at the same time and release DC switch button immediately, the hibernation icon lights on/off, which means the product enters to or out of the hibernation mode.

2.Under The Hibernation Mode: When the AC output is less than 5W, the AC output will automatically turn off after 8 hours. When there is no output from the USB and DC ports (or the current is less than 200mA), and the AC output is off at the same time, the ST2000 will automatically shut down after 10 minutes.

3.Under Non-hibernation Mode: Once the AC is turned on, even without any loading, the AC icon will always lights up, and the AC output is turning on, until it is turned off manually. The DC icon will always lights up, even without any loading, it will not turn off automatically.

11/Product parameters

Product Model:	ST2000
Battery Energy:	1536Wh (25.6V=60Ah)
AC Output Waveform:	Pure Sine Wave
AC Charge Input Voltage:	220-240Vac 50Hz/60Hz(Max 1200W)
Solar Charge Input :	XT60 interface / 500W 12-65V DC (Max 20A)
Car Cigarette Output:	12V=10A
AC (Output *2):	220-240Vac 50Hz/60Hz Rated Power:2000W Peak Power:3000W
Car Cigarette Lighter (Output x1):	12V=10A (Max 120W)
DC5521 (Output*4):	12V=10A (Max 120W)
USB2.0 (Output *2):	5V=2.4A (Max 12W)
QC3.0 (Output*4):	5V=3.6A/9V=2.5A/12V=2A (Max 24W)
USB-C (Output*2):	5V/9V/12V/15V/20V=3A (Max 60W)
UPS Switching Time:	≤15ms
Cell Type:	LiFePO4 Battery
Cycle Life:	Remaining capacity above 85% after 3500+ cycles
Charging Temperature:	0°C- 45°C
Discharge Temperature:	-10°C ~ 45°C
Storage Temperature:	-10°C ~ 45°C
Safety Protection:	It is recommended to charge the product every 3 months
Product Size:	411x260x355mm
Weight:	21.7kg

12/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 the instruction manual.
 - ② Failure 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.