

WKSP
We Know Solar Power
PTB200 Series
Portable Power
Station



WKSP PTB200 Series Portable Power Station User Manual

[Home](#) » [WKSP](#) » WKSP PTB200 Series Portable Power Station User Manual 

Contents

- 1 WKSP PTB200 Series Portable Power Station
- 2 Charging instructions
- 3 SAFETY INSTRUCTIONS
- 4 PRODUCT INTRODUCTION
- 5 LOAD CAPACITY
- 6 PACKING LIST
- 7 PRODUCT FUNCTION DESCRIPTION
- 8 BUTTON INDICATOR
- 9 LCD DISPLAY
- 10 LIST OF FAULT CODES
- 11 PTB200PRO FULL PARALLEL INTEGRATION (Optional)
- 12 CHARGING FUNCTION DESCRIPTION
- 13 OPERATING INSTRUCTIONS
- 14 TRANSPORT INSTRUCTIONS FOR DANGEROUS GOODS
- 15 TROUBLESHOOTING
- 16 PRODUCT MAINTENANCE
- 17 PTB200 TECHNICAL SPECIFICATIONS
- 18 WARRANTY
- 19 FCC Warning
- 20 Documents / Resources
 - 20.1 References
- 21 Related Posts

WKSP
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WKSP PTB200 Series Portable Power Station



Thank you for purchasing the PTB200 Series high-quality power station

To ensure your personal safety, Property safety, and good user experience, Please read this User Manual carefully before operation and keep it for future reference.

Charging instructions

Before using your new Power Station PTB200 Series, plug it into a suitable power outlet until it is fully charged. Then you can start your exciting journey with it.



WARNING

Please read the following instructions for safety before use. Improper use may result in fire, property damage or personal injury, or death. DO NOT use the product with incompatible components or alter the product in any way.



WARNING

Improper use may result in fire, property damage, or personal injury. Make sure to use the product according to the following safety rules and guidelines.



WARNING

Do not expose the product to any liquid or submerge in water. If the battery comes into direct contact with water, it may cause chemical decomposition of the battery. This may cause the battery to catch fire or explode.

SAFETY INSTRUCTIONS



Read the following instructions to ensure safe usage:



DANGER

Noncompliance may very likely lead to serious injury or death.

- DO NOT disassemble, repair or modify the unit or the battery.

- DO NOT place the unit close to or in a fire or expose it to heat. Keep out of direct sunlight.
- DO NOT charge, use or store the unit in a bathroom or in an area exposed to rain or moisture. Only use the output socket to power external devices.
- Never connect the output to the main power under any circumstances.
- DO NOT touch the unit or the plug-in points if your hands are wet.
- DO NOT connect any metallic objects to the AC input or output.
- DO NOT rub your eyes if fluid from inside the unit happens to get into your eyes.
- DO NOT dispose of the unit together with household waste.
- DO NOT use any inappropriate power cords.
- DO NOT operate the unit above the specified input voltage.
- DO NOT use the unit if it is not functioning correctly.
- DO NOT move the unit if it is recharging or in use.



WARNING

Noncompliance may lead to serious injury or death.

- Use and store the unit only in a clean and dry environment. Do not use and store in a dusty and wet environment.
- Check the unit prior to every use.
- Do not use the unit if it is damaged or broken.
- DO not use the unit if the power cord is damaged or broken. Keep the unit away from children.
- DO NOT let children use the power supply unit. Keep this product away from pets.
- DO NOT use or store the unit in an area or environment with high temperatures.
- If fluid from the inside of the unit comes into any contact with your skin or clothing, wash the affected areas with tap water. In a storm, unplug the power cord from the socket.
- DO NOT charge the device through a power system other than the rated voltage.
- DO NOT place the unit on its side or upside down while in use or storage.
- DO NOT use accessories for other usage.



CAUTION

Noncompliance may lead to injuries and/or property damage.

- If rust peculiar odors, overheating or other abnormal circumstances are observed, stop using the unit immediately and contact the dealer or our customer service center.
- The unit complies with all legal requirements for the transport of dangerous goods.
- Make sure that the unit is properly secured when transporting it in a motor vehicle.
- Only charge, use and store the unit within an ambient temperature of 0°C to 40°C (32 °F to 104 °F).
- Switch the unit off immediately if it has accidentally fallen, was dropped or was exposed to vibrations.
- Once the unit is fully charged, unplug the AC charging cable. We are not responsible for any damage caused by using different brand charging cables.
- Use of different cables will void the product's warranty and may cause damage or serious bodily injury.

Carefully read the instructions for the electric devices that you intend to connect to your power.

Product Maintenance:

1. Battery life may be reduced or become nonfunctional if it is not properly maintained.
2. Fully charged and discharged at least every 3 months to ensure battery life.
3. Do not store battery with less than 50% charge.

PRODUCT INTRODUCTION

PTB200 Series with high capacity and high safety battery pack.

It is very convenient for emergency off-grid demand such as sudden power failure, snowstorm or hurricane, outdoor tourism, outdoor operation, RV power supply, etc. There is perfect performance with great power output up to 2400W, fast charging, high capacity and long cycle life.



Dual-machine parallel output 4800W Max, supports more high-power equipment, more durable.

LOAD CAPACITY



Laptops (41.4Wh)
Around
37 Recharges



32" TV (60W)
Around
26 hours



CPAP without heated
humidifier (15W)
Around 104 hours



GoPro (5.9Wh)
Around
265 Recharges



Floodlight (5W)
Around
313 hours



Mini Fridge (40W)
Around
39 hours



Drone (89.2Wh)
Around
17 Recharges



Smartphone (10Wh)
Around
156 Recharges

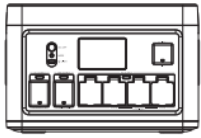


Switch (16Wh)
Around
97 Recharges

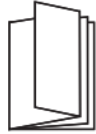
+MORE

PACKING LIST

Principal machine / User manual / AC charging cable / MC4 to Anderson cable (optional accessory) / Car charger to Anderson cable (optional accessory) / PTB200 Pro Parallel Cable (optional accessory).



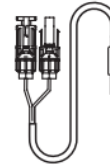
Principal
machine



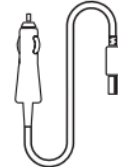
User Manual



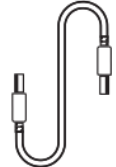
AC charging
cable



MC4-Anderson
connector cable
(optional accessory)



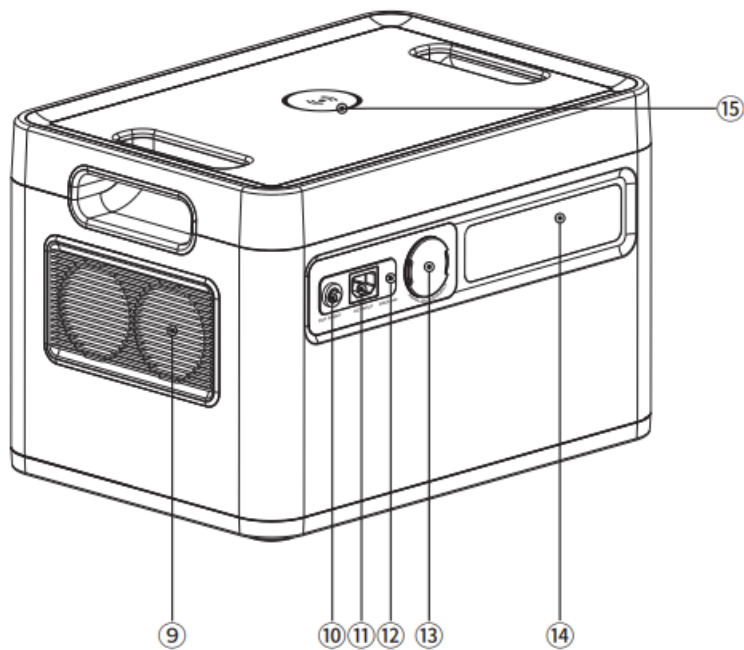
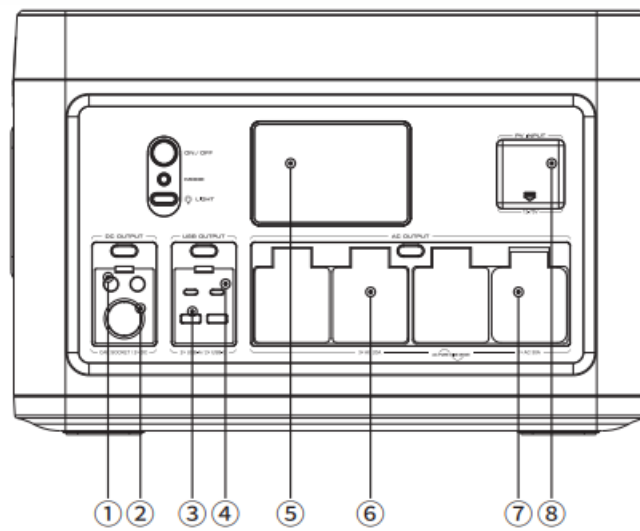
12V Car
Anderson cable
(optional accessory)



PTB200Pro
Parallel Cable
(optional accessory)

It is recommended to use 120W/200W/300W/400W/600W/800W (Max) Solar Panels.

PRODUCT FUNCTION DESCRIPTION



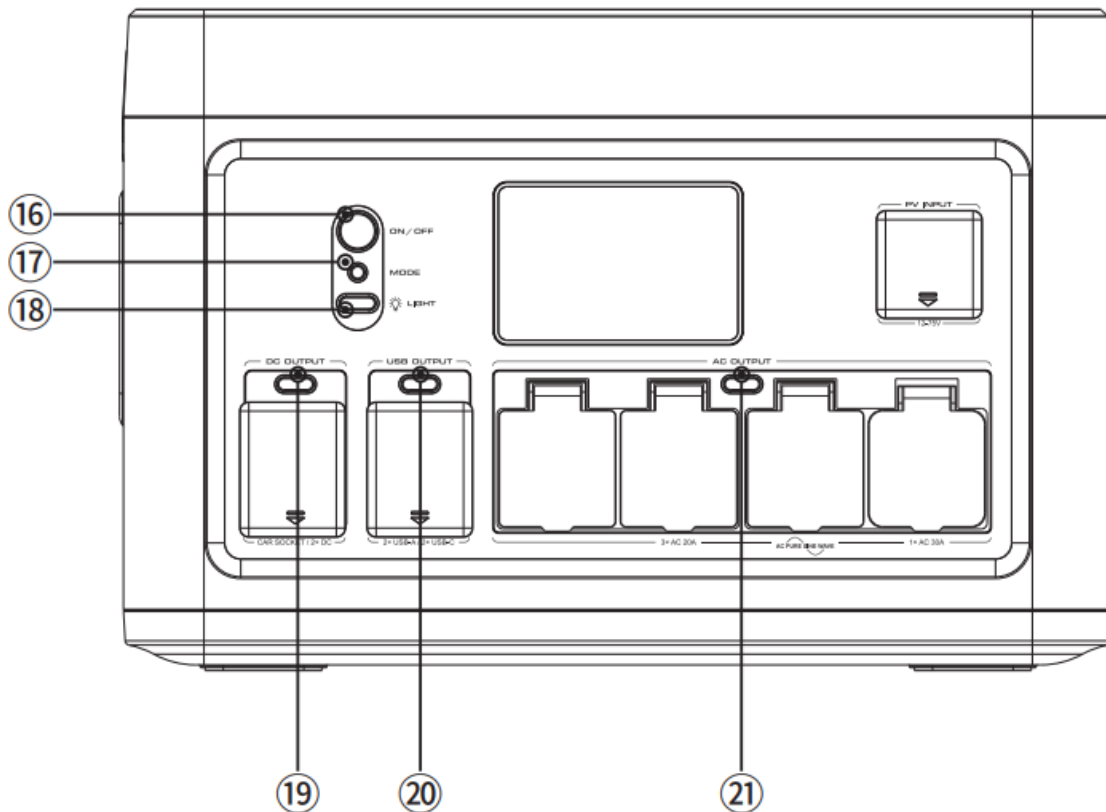
1. DC Output
2. Cigarette Lighter Socket Output
3. USB-A Output
4. USB-C Output

5. LCD Screen Display
6. AC Output 20A ×3
7. AC Output 30A ×1 (PTB200Pro)
8. PV Input
9. Air Intake Vent with Cooling Fan
10. OLP Reset
11. AC Input
12. Grounding Port
13. AC Parallel Interface (PTB200Pro Optional)
14. LED Light
15. Wireless Charger



Reminder: If the battery with low power, please charges it before use.

BUTTON INDICATOR



Wireless Charger 15)

Press the “Power ON/OFF” Button to turn on the Wireless Charger.

Press the “Power ON/OFF” Button to shut down the output(s) when not in use.

Button 16 Power ON/OFF

Press button 16 to turn on or turn off the equipment.

Button 17) MODE

When the default fast charging mode is switched on, and the power will switch to slow charging power mode by pressing button. The slow charger is charged at one-quarter of the maximum allowable power.

Button 18 LED Light

Firstly, turn on the Button 16, then press the Button18 :

Mode1, press once to on the LED light to solid normal bright light;

Mode2, press twice to solid highlight mode;

Mode3, press three times to flash highlight mode;

Mode4, press four times to SOS mode. Finally press the fifth time to turn off the LED light; Finally press the fifth time to turn off the LED light.

Button 19 DC Output

Before pressing button 19 to turn on, please make sure the “Power ON/OFF” is ON first.

To stop Output, press 19 again.

Button 20 USB Output

Before pressing button 2 to turn on, please make sure the “Power ON/OFF” is ON first.

To stop Output, press 20 again.



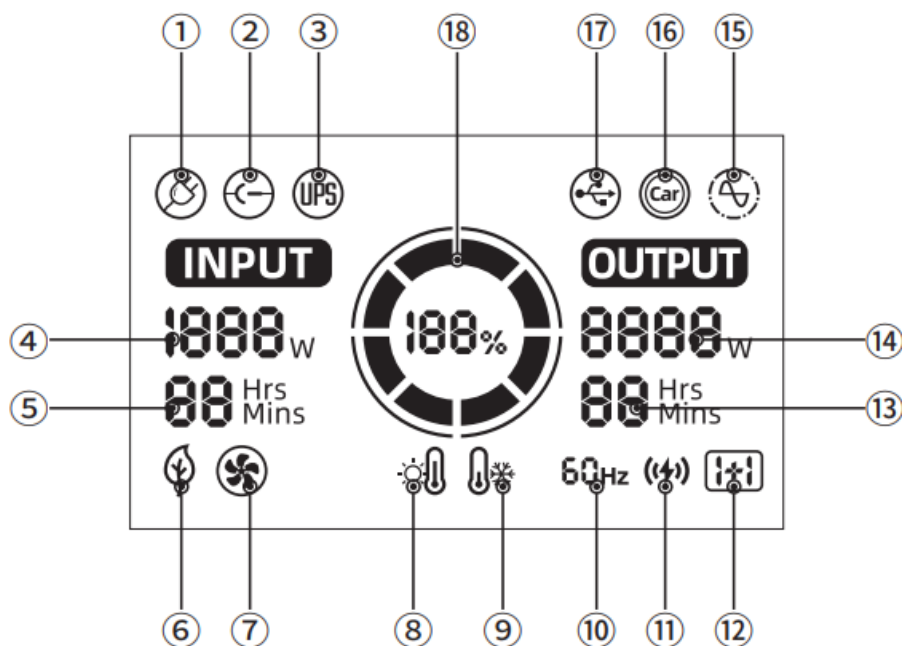
Note: Different Devices with different USB-C cable agreements. If the USB-C port is not working, please confirm whether the product has electricity.

Button 21 AC Output

Before press button 2 to turn it on, please make sure the “Power ON/OFF” is ON first.

To stop Output, press 21 again.

LCD DISPLAY



1. AC Input: When the AC charging cable is inserted, this label is displayed on the LCD.
2. DC Input: When the DC DC/SOLAR PV charging cable is inserted, this label is displayed on the LCD.
3. UPS Mode: When the device is in the AC charging state and the AC output is turned on, the UPS mode automatically starts and this label is displayed on the LCD.
4. Input Power: When charging, the display displays “INPUT” and charging power.
5. Input Time: When charging, the display shows full remaining time.
6. Quick Charge Switching: When the AC charging mode is used, the label is displayed when the charging mode is switched to slow charge.

7. Fan Start Cooling Status: When the fan is running, this label is displayed on the LCD.
8. High-Temperature Alarm: When the inverter or battery pack temperature is too high, this label is displayed on the LCD.
9. Low-Temperature Alarm: When the temperature of the inverter or battery pack is too low, this label is displayed on the LCD.
10. AC Output Frequency: When the AC switch is turned on, the display displays "OUTPUT" and the icon.
11. Wireless Charge: When the wireless charge output, this label is displayed on the LCD.
12. AC Parallel State (PTB200Pro): When the AC output is synchronized, this identifier is displayed on the LCD.
13. Output Time: In the output state, the screen displays the remaining output time.
14. Output Power: Displays the total used power of DC output, USB-A, USB-C, and AC output.
Note that this value can be adjusted multiple times as the energy consumption of the connected device changes. This is evident when the port is initially activated using a connected device.
15. AC Outputs: After the AC output switch is turned on, the icon lights up and displays the total ac output power, current remaining time, and current frequency.
16. Cigarette Lighter Socket Output: When the Cigarette Lighter Socket Output is turned on, the icon lights up and shows the total power used by the DC output, the current remaining time and frequency.
17. USB Output: When the USB output is turned on, the icon lights up and shows the total power used by the DC output, the current remaining time and frequency.
18. Battery Level Indicator: Displays the current battery level in the form of energy circle + percentage. The main switch is turned on and the battery quantity is displayed. During the charging process, the energy circle is displayed dynamically.

LIST OF FAULT CODES

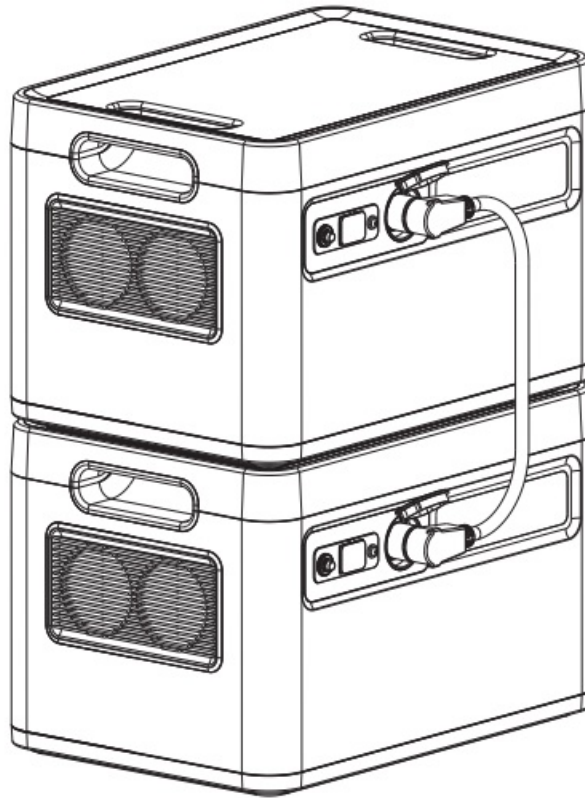
Fcoaud let	Significance	solutions
E01	Battery overvoltage	Please disconnect the charging cable and stop charging
E02	Battery undervoltage	Please disconnect the output and charge the device
E03	Inverter overheating	Please disconnect the output and wait 1-2 hours before operation
E04	Abnormal input voltage	Please disconnect the charging cable
E05	Abnormal grid frequency	Please disconnect the charging cable
E06	Output voltage anomaly	Please contact customer service center
E07	AoCvearnlodaUdeSdBoorusth pourttS-cairrecuited	Please disconnect the output and check the electrical equipment
E08	DshCoortu-ctpiructuiteodverlo aded or	Please disconnect output
E09	Inverter failure	Please contact customer service center
E16	Charge overload	Please disconnect the output load

NOTE: When the DC load is abnormal, the system will automatically turn off the output and will not show the fault code. Please disconnect the output and check the electrical equipment then try again. When the USB load is abnormal, the corresponding output power will to be zero and the system will not show the fault code. Please

disconnect the outputs and check the electrical equipment, then try again.

PTB200PRO FULL PARALLEL INTEGRATION (Optional)

Double your power right off the box. No complicated or costly junction boxes – simple plug and play technology allows you to link two, PTB200Pro's together easily. Parallel cable included!



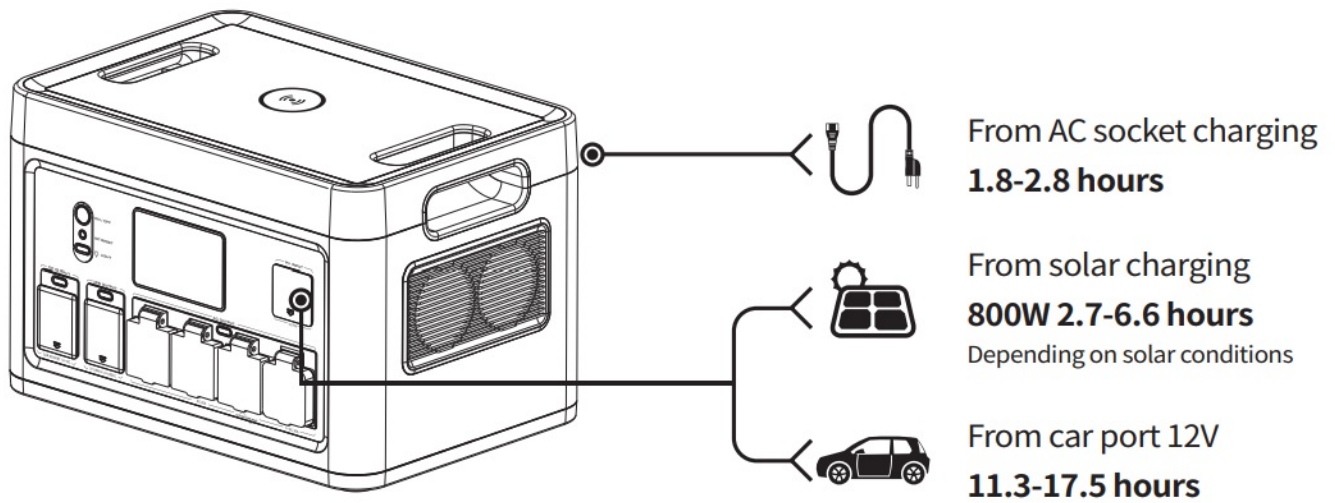
- **Step 1:** turn off two AC outputs and then insert the paralleling line.
- **Step 2:** turn on both of the AC ON/OFF of two PTB200 Pro.
- **Step 3:** insert and start the loaded equipment.



This feature is only available for PTB200Pro, Requires a second PTB200 Pro's sold separately.

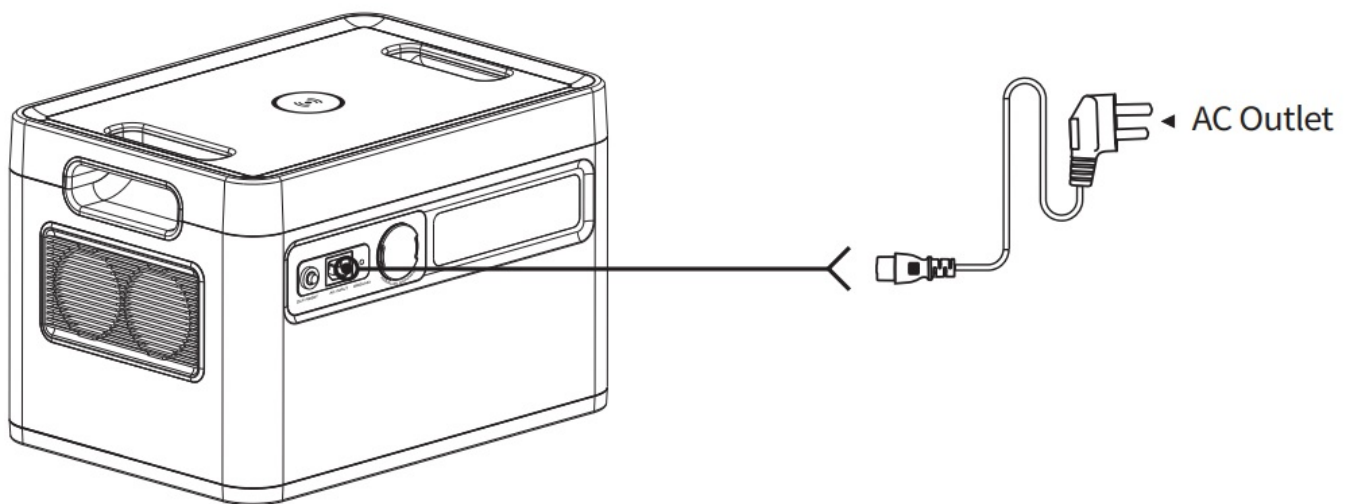
CHARGING FUNCTION DESCRIPTION

Re-charging time



AC charging

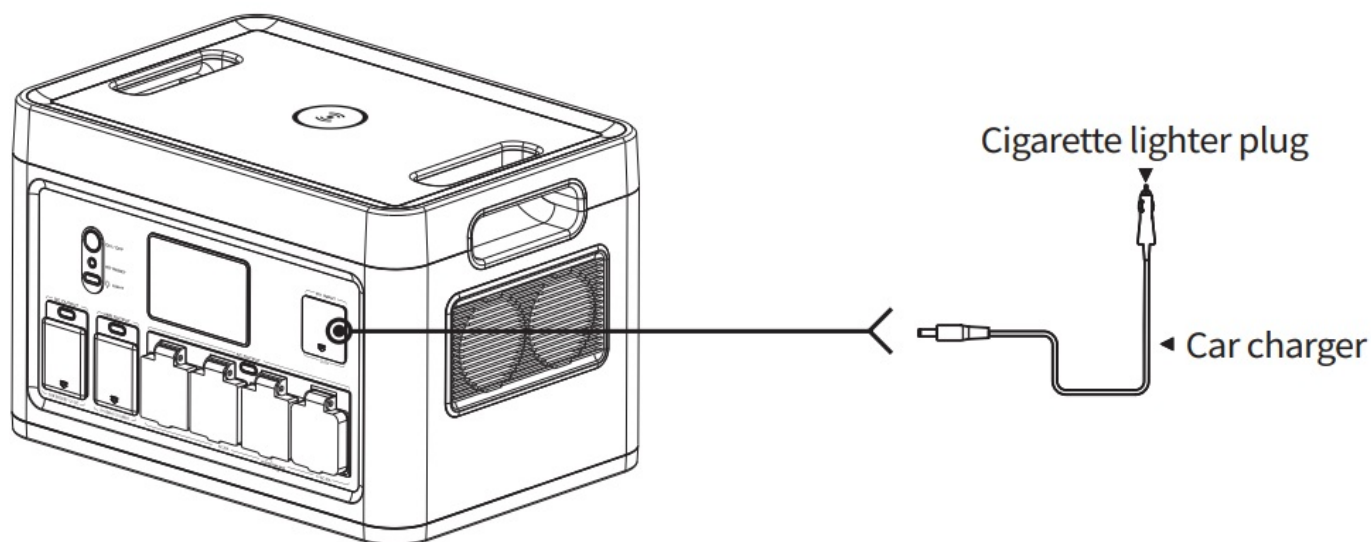
Use the AC charging cable we provided to charge the device. It takes 1.8-2.8 hours to full capacity. When LCD showing battery power reached 100%, it means that battery has been full charged and input power will turn off in minutes.



When the device is charging, if the AC input current is more than 20A, the device will be overloaded, a fault code "E16" will be showed on the LCD, the output will be shut off after 10 seconds. Please disconnect the output load then press the AC switch once to clear it.

12V car charger

Use the car charger we provided to charge. It takes 11.3 to 17.5 hours to fully charge. When the LCD shows that the battery power is 100%, it means that the battery is fully charged.

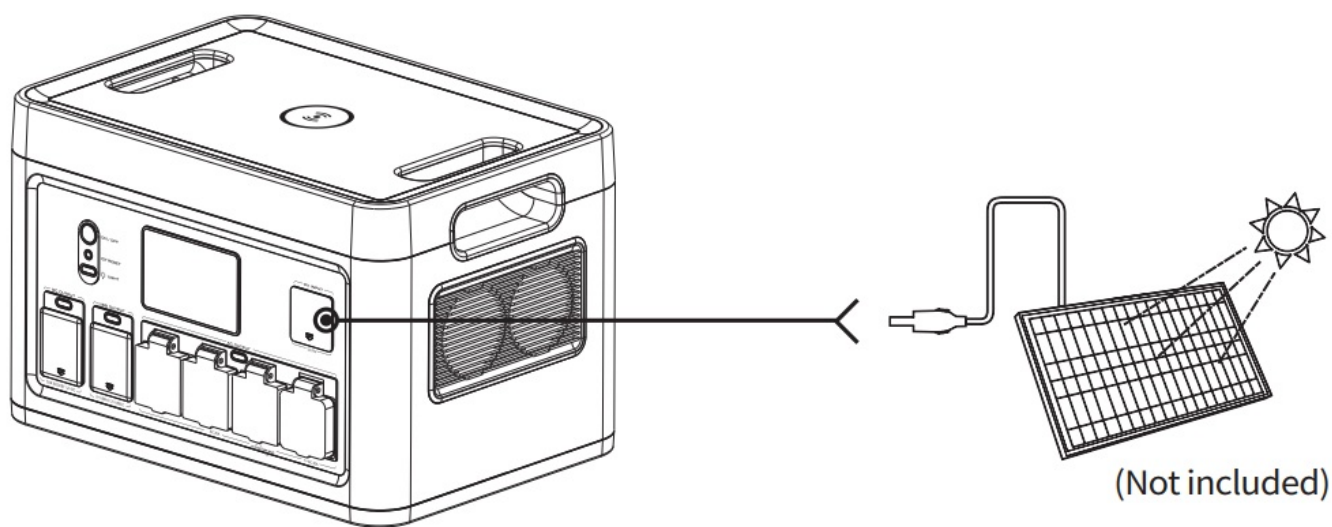


Caution: Do not charge the product with solar PV input and car port at the same time!

Solar panel charging

The total open circuit voltage of solar modules after a series-parallel connection should not exceed the specified voltage!

Please place as many solar panels in direct sunlight as possible. Support 120W/200W/300W/400W/500W/600W/800W solar panel charging, the charging time is determined by the sunlight intensity.



OPERATING INSTRUCTIONS

Re-charging

Use the original AC line to charge, the full charge time is about 1.8-2.8 hours. When charging, the LCD screen will flicker, the LCD display will provide real-time display data of battery charging, the device will display 100% when it is fully charged. It is recommended to fully charge the device every 3 months to maintain the service life of the device.

Power output attention

Press the output switch to select the desired outlet type. The output port must press the corresponding button to activate the port. When activated, the LCD display will turn on and provide detailed information about the charging output. When no output is activated, the LCD screen will automatically turn off.

Overload condition

If the AC and USB outputs are overloaded or short-circuited, the device will automatically turn off the output power.

The code “E07” will be displayed on the LCD screen.

If the DC output is overloaded or short-circuited, the device will automatically turn off the output power. The code “E08” will be displayed on the LCD screen.

Discharging

Press the “Power on/off” button for 1 second to turn on the device. Press the “Power on/off” button for 3 seconds to turn off the device. The device uses an advanced battery management system that allows it to charge the connected device through AC or DC output or USB output.

How to switch frequency?

The device can intelligently identify the frequency of voltage when charging, and can automatically set the frequency, so please charge before using. After plugging in the charging cable, the display will show the frequency of the current grid voltage if it displays “50”, it is 50Hz, if it displays “60”, it is 60Hz.

You can also manually set and change the voltage frequency. Before using the power station, please confirm the voltage frequency of your electrical equipment, 50 Hz or 60 Hz?

Then press the “Power on/off” button for 1 second to turn on the device. If “50” is displayed on the LCD, it means that the operating frequency of the power station is 50 Hz. If “60” is displayed on the LCD screen, it means 60 Hz.

If the frequency displayed on the LCD display does not match the frequency of the local power grid, you must change the frequency according to the following steps:

Step 1: press the button ‘Power on/off’ for 3 seconds to turn off (the LCD display screen will turn off).

Step 2: keep pressing the button ‘AC on /off’ with your right finger first and then press the button ‘Power on/off’ for 1 second with your left finger, then release both fingers. You will see the frequency.

Cooling fan

The equipment is designed with an internal cooling fan to ensure that the product runs within the proper temperature range. When the device experiences a high output load, it will automatically turn on the fan. During discharging and charging, the fan may run intermittently to keep the internal temperature within the operating range. When the AC circuit is activated, the fan is likely to start to ensure normal operation.

Power-saving sleep mode

1. No charging (AC input + PV), no discharging (DC + USB + AC). When charging is not connected and only the main switch is turned on: sleep after 5 minutes.
2. Any charging is connected (regardless of whether there is power), and it does not sleep.
3. USB <5W, DC <5W, AC <25W, all three conditions are met at the same time, sleep after 8 hours.
4. The self-consumption of whole machine is less than 5mA after turning off all switch and sleeping;
5. Please turn off the main power switch during transportation otherwise it will not be used for a long time. Self-consumption after switching off is less than or equal to 200μA.

Equipment cleaning

Please make sure that the device is disconnected from all input power and output devices. Wipe with a clean, dry, non-soft cotton cloth. Remove all any foreign matter , dirt or other obstructions from both side vents. While cleaning foreign objects in the side vents, do not allow debris, dirt or other blockages to enter the equipment.

Do not use corrosive cleaners or solvents.

Do not use compressed air to clean the side cooling vents, as it will cause foreign particles to enter the interior and cause a short circuit.

Note: To avoid the risk of electric shock, do not use metal objects to clean the ports.









Storage

If the storage time is longer than 1 month, please charge it to 50% capacity and keep it indoors, at normal temperature, the maximum storage time shall not exceed 6 months. Please keep it away from direct sunlight.

Excessive temperature will lead to reduced service life, overheating and fire. Extremely cold conditions below the specified storage range can also impair the performance and service life of the equipment. Please keep away from corrosive chemicals and gases.

After removing it from storage, perform a visual inspection to ensure that the appearance of the equipment and all accessories are qualified. Check the vents on the intake and exhaust sides to make sure they are free of foreign objects.

TRANSPORT INSTRUCTIONS FOR DANGEROUS GOODS

	Not permitted on aircrafts		Avoid dropping
	To preserve the battery lifespans, please use and recharge at least once every 3 months		Do not be disassembled
	Use an original or certified charger or cable		It's not waterproof, do not be exposed to liquids
	Avoid extreme temperature		Please dispose of batteries and electronic goods in accordance with local regulations

 The PTB200 Series power station meets all legal requirements for the transportation of dangerous goods. The capacity of the lithium battery pack exceeds 100Wh. According to international standards, if the power station is transported by air, it must be transported in accordance with IATA standard packaging. Ensure that all instructions and labeling requirements set by the International Air Transport Association and related declarations are fulfilled.

TROUBLESHOOTING

The device does not discharge

1. Check whether the connecting wire has been inserted in the correct place;
2. Check whether the total output power exceeds the rated output power;
3. Check whether the temperature of the equipment is too high.

The device is not charging

1. Confirm that both the AC socket on the wall and the AC charging cable are fully inserted into the AC input terminal;
2. The device cannot be charged immediately after being discharged. Please put it aside for an hour and try again, as the device it may enter the over-temperature protection mode.

PRODUCT MAINTENANCE

Maintenance

Check as needed. If the PTB200 Series power station cannot work regularly, please change and discharge it every 3 months under normal temperatures to keep the service life. Regularly check all ports and wall chargers for any debris, dirt, damage, and corrosion.

Do not disassemble the device privately.

Do not cover the equipment with towels, clothes or any other items. Regularly check the side vents for dust and foreign matter, and clean them according to the cleaning procedures specified in the manual.

Disposal/recycling



Do not put the device and its accessories in the trash can. Items must be properly handled in accordance with local laws and regulations. For additional information, please see www.epa.gov.

Affirm

Copyrighted equipment. All rights reserved. All trademarks cited here are the property of their respective owners. The information contained in this agreement is subject to change without notice. We are not responsible for any technical or editorial errors or omissions contained in this agreement. First Edition: January 2023

PTB200 TECHNICAL SPECIFICATIONS

GENERAL PARAMETERS

- Battery Type Lithium Iron Phosphate
- Rated Capacity 51.2V, 36Ah/1843.2Wh
- Net Weight ≈ 26kg
- Product Size 430mm*300mm*287mm
- Operating Temp 14°F to 104 °F (-10°C to 40°C)
- Charging Temp 32°F to 104 °F (0°C to 40°C)
- Storage Temp -4°F to 113° F (-20°C to 45° C)

INPUT

- AC Charge Input Voltage AC 100V-130V~10A, 60Hz
- AC Charge Input Power AC 1200W
- Solar Charge Input DC 12V-75V, 800W Max
- Car Charger DC 12V/24V, 192W Max

OUTPUT

- AC Output Voltage*4 120V~60Hz
- Rated Output Power 2400W
- Output Waveform Pure Sine Wave
- UPS Switching Time 10ms
- Cigarette Lighter Socket Output 12V 10A
- DC Output*2 12V 3A (Each)
- USB-A Output*2 5V 3A, 9V 2A, 12V 1.5A, 18W Max

- USB-C Output*2 5V/9V/12V/15V/20V 3A, 20V 5A, 100W Max
- Wireless Charge 10W
- LED Light 5W

WARRANTY

We assure the original purchaser that our products are free of defects in workmanship and materials during the applicable warranty period determined in the “Warranty Period” section below, but the exclusions set below are excluded.

This warranty statement sets our total and exclusive obligations. We will not assume, nor authorize any person to assume for us any other liability related to the sale of our products.

Warranty

The warranty period is 12 months, and the warranty period is calculated by the original consumer purchaser from the date of purchase. To determine the start date of the warranty period, a sales receipt from the first consumer purchase or other reasonable documentary proof is required.

Repair processing

We will repair or replace any products that cannot be operated due to defects in workmanship or materials within the applicable warranty period. If a valid claim is filed within the applicable period, we can choose:

1. Replacement product.
2. Products of equal value can be exchanged. The replacement product bears the remaining warranty period of the original product or replaces it (90) days from the date of warranty, whichever is greater.

The customer is responsible for the cost of shipping the return.

Exclusions

The warranty of PTB200 Series does not apply to 1) any product that has been modified, misused, abused, accidentally damaged, or used for anything other than normal consumer use as authorized in current product literature or 2) any product purchased through an online auction house. The warranty of PTB200 Series does not apply to the battery cell unless the battery cell is fully charged by you within seven days of purchasing the product and at least every 6 months thereafter.

After-sales service

For after-sales maintenance service, please contact our customer service team.

Due to constant technology updates, product specification,s and configuration changes, please refer to the actual product.

FCC Warning

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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

Note: 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 equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Documents / Resources

<div><p>说明书制作要求 此页不印刷</p><table><tr><td>产品名称</td><td>PTB200 便携式电源站</td></tr><tr><td>产品型号</td><td>PTB200</td></tr><tr><td>产品规格</td><td>15.2V 30Ah/124.5Wh</td></tr><tr><td>产品重量</td><td>3.05kg/6.72lb</td></tr><tr><td>产品尺寸</td><td>142x100x44mm</td></tr><tr><td>额定功率</td><td>200W/200VA</td></tr><tr><td>输入电压</td><td>AC100-240V</td></tr><tr><td>输出电压</td><td>DC12V/10A</td></tr><tr><td>输出电流</td><td>10A/120W</td></tr></table><p>WKSP</p></div>	产品名称	PTB200 便携式电源站	产品型号	PTB200	产品规格	15.2V 30Ah/124.5Wh	产品重量	3.05kg/6.72lb	产品尺寸	142x100x44mm	额定功率	200W/200VA	输入电压	AC100-240V	输出电压	DC12V/10A	输出电流	10A/120W	<div><p>WKSP PTB200 Series Portable Power Station [pdf] User Manual</p><p>PTB200 Series Portable Power Station, PTB200 Series, Portable Power Station, Power Station , Station</p></div>
产品名称	PTB200 便携式电源站																		
产品型号	PTB200																		
产品规格	15.2V 30Ah/124.5Wh																		
产品重量	3.05kg/6.72lb																		
产品尺寸	142x100x44mm																		
额定功率	200W/200VA																		
输入电压	AC100-240V																		
输出电压	DC12V/10A																		
输出电流	10A/120W																		

References

- [U.S. Environmental Protection Agency | US EPA](#)
- [User Manual](#)

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