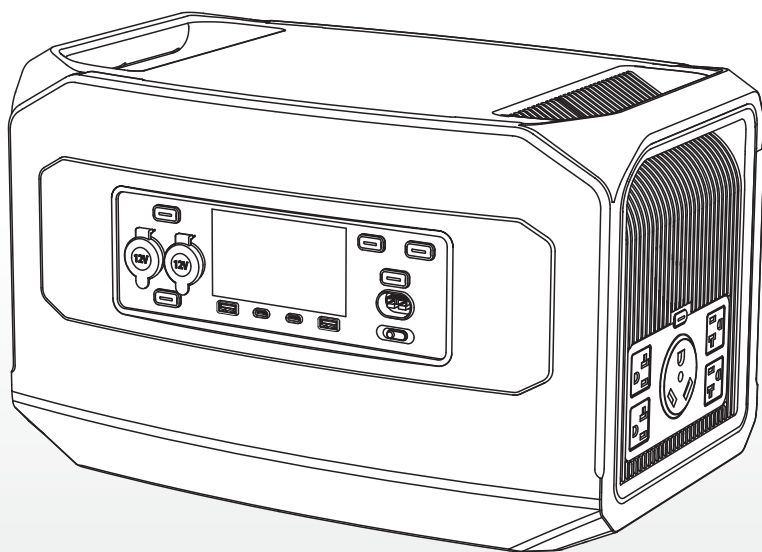


User Manual



PPS-C2048H-N

2500W Portable Power Station

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Disclaimer

Disclaimer

Before using this product, please read this user manual carefully to ensure that you fully understand the product and can use it correctly. After reading this user manual, please keep it in a safe place for future reference. Improper use of this product may cause serious injury to yourself or others, or result in product damage and property loss. By using this product, you are deemed to have understood, recognized and accepted all the terms and contents of this document. The Company shall not be responsible for any damages caused by the user's failure to use this product in accordance with this user manual.

In accordance with laws and regulations, the company reserves the right of final interpretation of this document and all documents related to this product. This document is subject to change, update, revision or termination without notice.

Please visit our website for the latest product information.

●The company shall not be held responsible for any damage caused by force majeure(e.g. fire, typhoon, flood, earthquake) or use under other abnormal circumstances by the customer.

Transportation

- 1 .Do not subject this product to severe impacts, vibrations, or drops.
- 2 .Do not carry this product onto a plane.

Environment

- 3 .Keep the product away from water resources, heat resources, metal objects and chemical substances and dust environment.
- 4 .Place the product on a stable and flat surface.
- 5 .Store the product in a dry, well-ventilated place.
- 6 .Follow the environment temperature requirements specified in the user manual.
- 7 .Do not use the product in an environment with strong static electricity or magnetic fields.
- 8 .Keep the product out of reach of children and pets.

Operation

- 9 .Do not damage, repair, modify or disassemble this product by yourself.
- 10 .Do not use any unofficial or not recommended components or accessories.
- 11 .Remember to turn on the product before connecting your devices.
- 12 .Always disconnecting your devices before turning off the product.

Disclaimer

- 13 .Do not put fingers or hands into the product.
- 14 .Do not insert wires or other metal objects into the product to prevent short circuits.
- 15 .Do not use the product to power medical equipment and precision instrument.
- 16 .Do not stack any heavy objects on the product.
- 17 .Risk of Electric Shock: Never use the product to power tools to cut or access live parts or live wirings, or materials that may contain live parts or live wirings inside, such as building walls, etc.

Emergency

- 18 .If the product falls into water or gets wet, stop using it immediately and place the product in a secure, waterproof, and well-ventilated area, then contact customer service for further support.
- 19 .If the product is smoking or catches fire, it is recommended to use the fire extinguishers.
- 20 .If the product is overturned and severely damaged, wear insulating gloves to turn it off, and then place the product in an open area far from flammable materials and people, and dispose of it according to local laws and regulations.

Recycling and Disposal

- 21 . The product with severe damage, malfunction, or depleted battery life should be properly disposed of or recycled.
- 22 .The product contains batteries. Please dispose of the product following local laws and regulations for battery disposal and recycling. Do not dispose of it with household waste to avoid environmental pollution and safety hazards.
- 23 .If possible, ensure the battery is completely discharged (to 0% capacity) before disposing of the product. If not, refrain from placing the battery directly into a battery recycling box. Instead, contact a professional battery recycling company for proper handling.

Product List

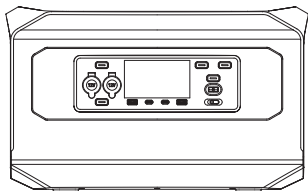
⚡ APP

You can connect this product via APP to view information, control the device and personalize settings.

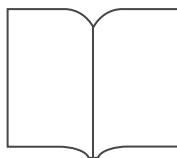


Scan the QR code to download our Smart Control APP.

What's in the Box



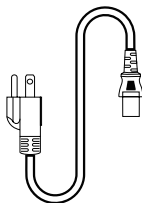
Power Station*1



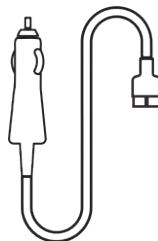
User Manual*1



Warranty Card*1



AC Charging Cable *1



Cigarette Lighter to
Anderson Cable *1

Product Description

⚡ Specifications

AC Output	
AC Output Off-grid Output	100V~120V 30A Max 2500W Max 50Hz/60Hz
	Boost Mode: 3600W Peak Power: 3800W
Bypass Mode	2500W (EPS: ≤20ms)
DC Output	
Cigarette Lighter Outputx2	12V10A Per Port
USB-A Output	5V3A; 9V2A; 12V1.5A 18W Max
USB-C Output	5V3A; 9V3A; 12V3A; 15V3A; 20V5A; 28V5A 140W Max
Anderson Output	12V~48V 30A Max 1000W Max
AC Input	
AC Input	90V~140V 15A Max 1800W Max 50Hz/60Hz
DC Input	
Cigarette Lighter Input (Anderson Port)	12V~15V 8A Max
Solar Input (Anderson Port)	12V~80V MPPT: 18V~80V 30A Max 1000W Max

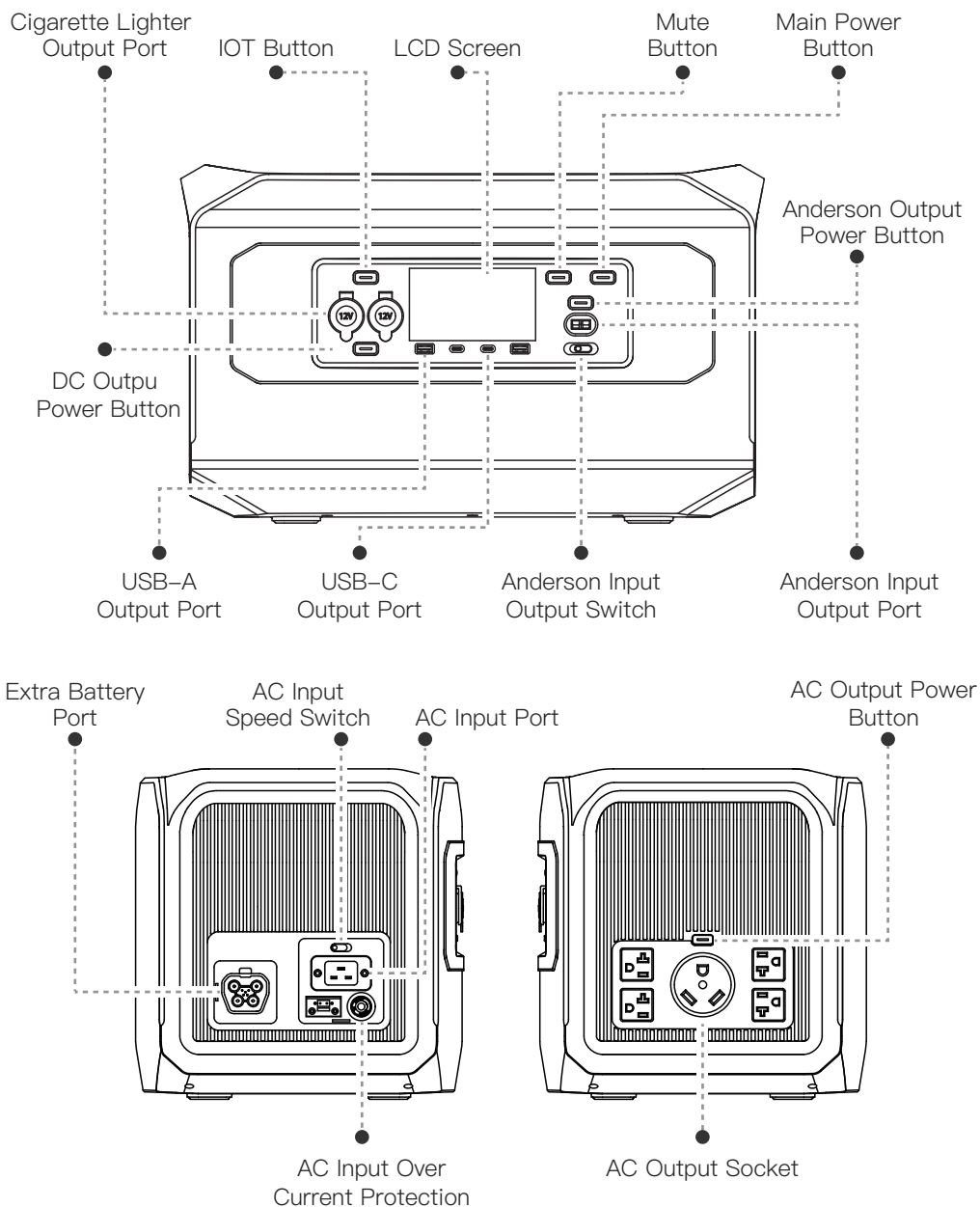
Product Description

⚡ Specifications

General Info	
Battery Capacity	2048Wh(51.2V/40Ah)
Battery Type	LiFePO4
Working Temperature	32°F~104°F (0°C~40°C)
Storage Temperature	-4°F~140°F (-20°C~60°C)
Dimension	Approx. 18.43*11.56*11.64in (468*293.7*295.6mm)
Net Weight	Approx. 48.83lb (22.15kg)

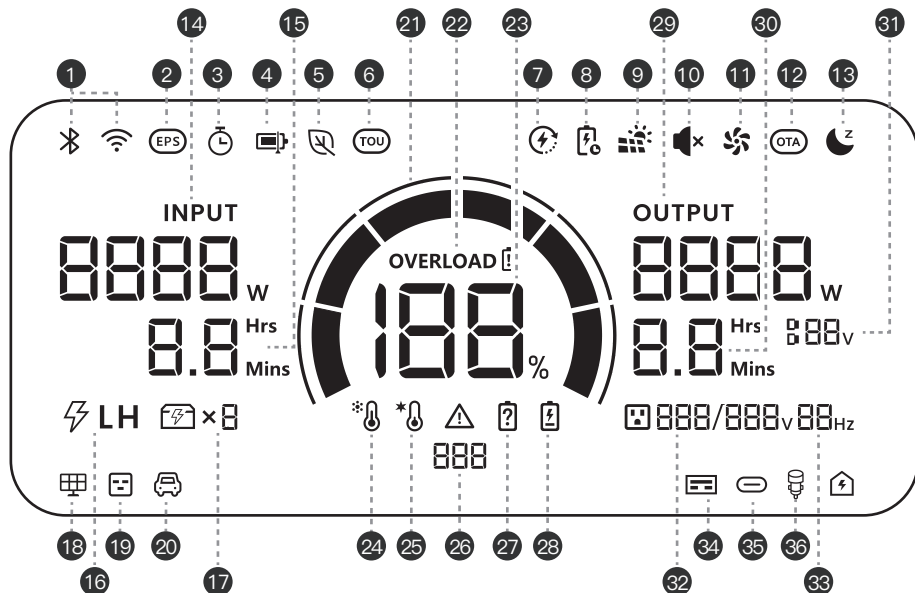
Product Description

⚡ Overview



Product Description

⚡ LCD Screen



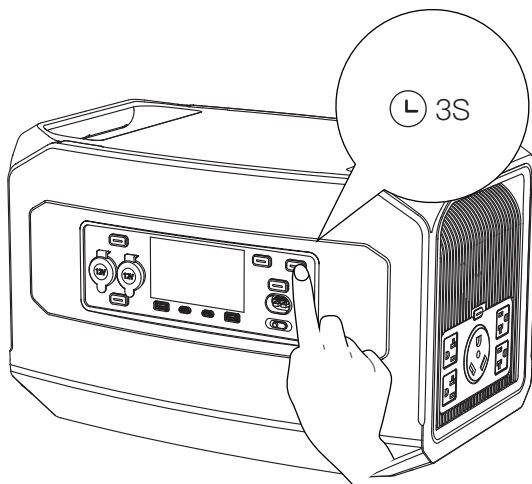
1.		Bluetooth&WiFi	13.		Night Mode	25.		Low Temp
2.		EPS Mode	14.	INPUT	Input Power	26.		Error Code
3.		Scheduled Task	15.		Charge Time Left	27.		BAT Error
4.		Charge Discharge Limit	16.		Fast Charge	28.		Low BAT
5.		Backup Power	17.		Extra BATQTY	29.	OUTPUT	Output Power
6.		TOU	18.		Solar Input	30.		Runtime
7.		Emergency Backup	19.		AC Input	31.		Anderson Output
8.		Custom Mode	20.		Car Input	32.		AC Output Volt
9.		Self-Consumption	21.		BAT Arc	33.		AC Output Frequency
10.		Mute	22.		Output Overload	34.		USB-A Output
11.		Fan	23.		BAT Percentage	35.		USB-C Output
12.		OTA Upgrade	24.		High Temp	36.		Cigarette Lighter

Notice: Unlabeled icons are unsupported in this model.

Instructions for Use

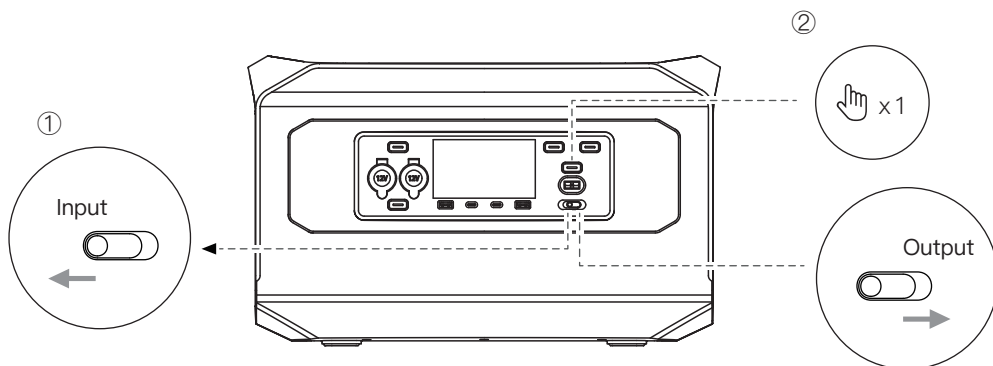
Power On/Off

- ① Press and hold the main power button for 3 seconds to turn the main power on or off.



Anderson Input/Output Switch

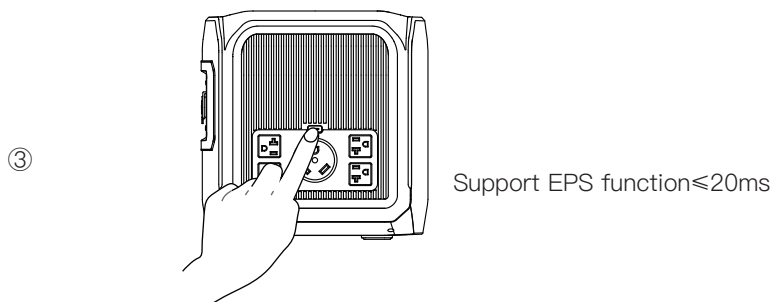
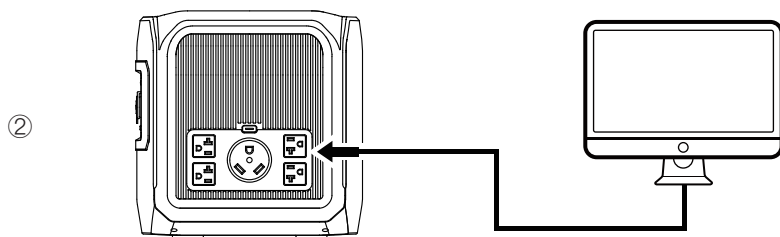
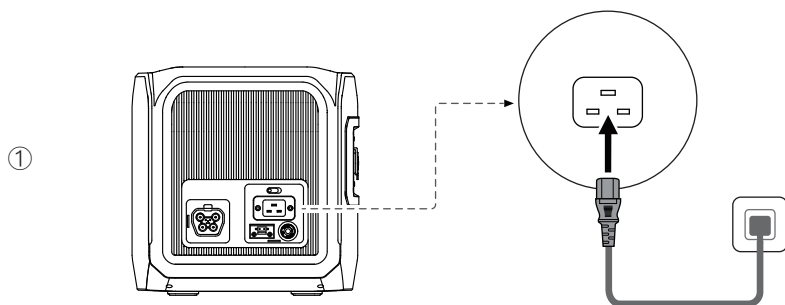
- ① Anderson port supports both input and output power.
- ② When using Anderson input, simply slide the toggle switch to the input end.
- ③ When using Anderson output, first slide the toggle switch to the output end, then press the Anderson output power button.. Output voltage can be adjusted on the APP.



Instructions for Use

EPS Function(Emergency Power Supply)

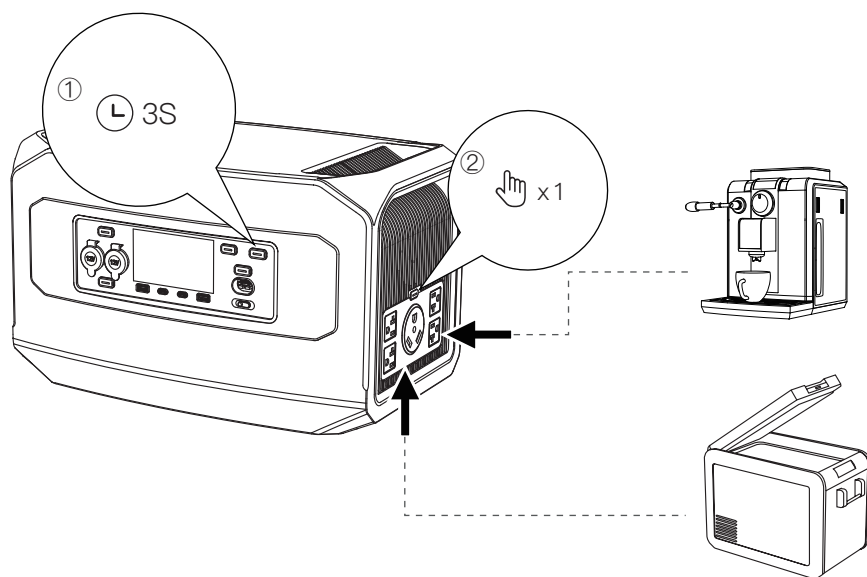
- ① EPS function is enabled by default.
- ② The total input and output power should be below 3000W.
- ③ Please do not connect the power station to equipment requiring 0ms uninterrupted power supply. Please test and make sure the device is compatible with EPS function.



Power your Loads

⚡ AC Powering

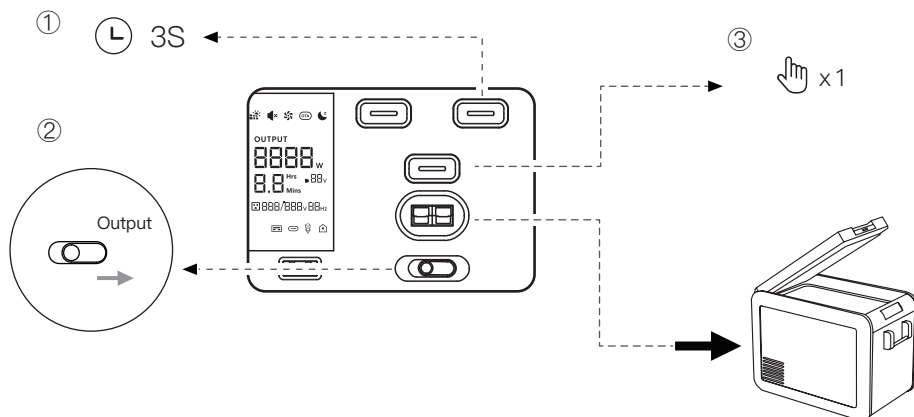
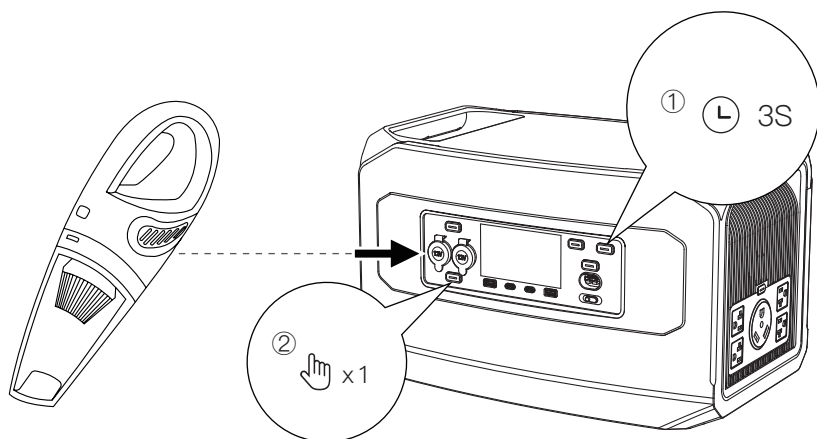
Disconnect your loads and press the AC output power button to turn off the AC output after using.



Power your Loads

DC Powering

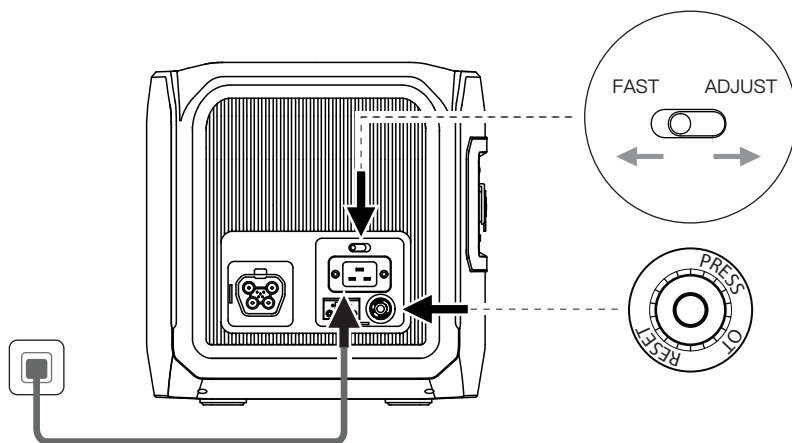
- 1 For Anderson output, slide the Anderson switch to the output side and then short press its power button.
- 2 Disconnect your loads and press the corresponding DC output power button to turn off the DC output after using.



Recharge Methods

⚡ AC Charging

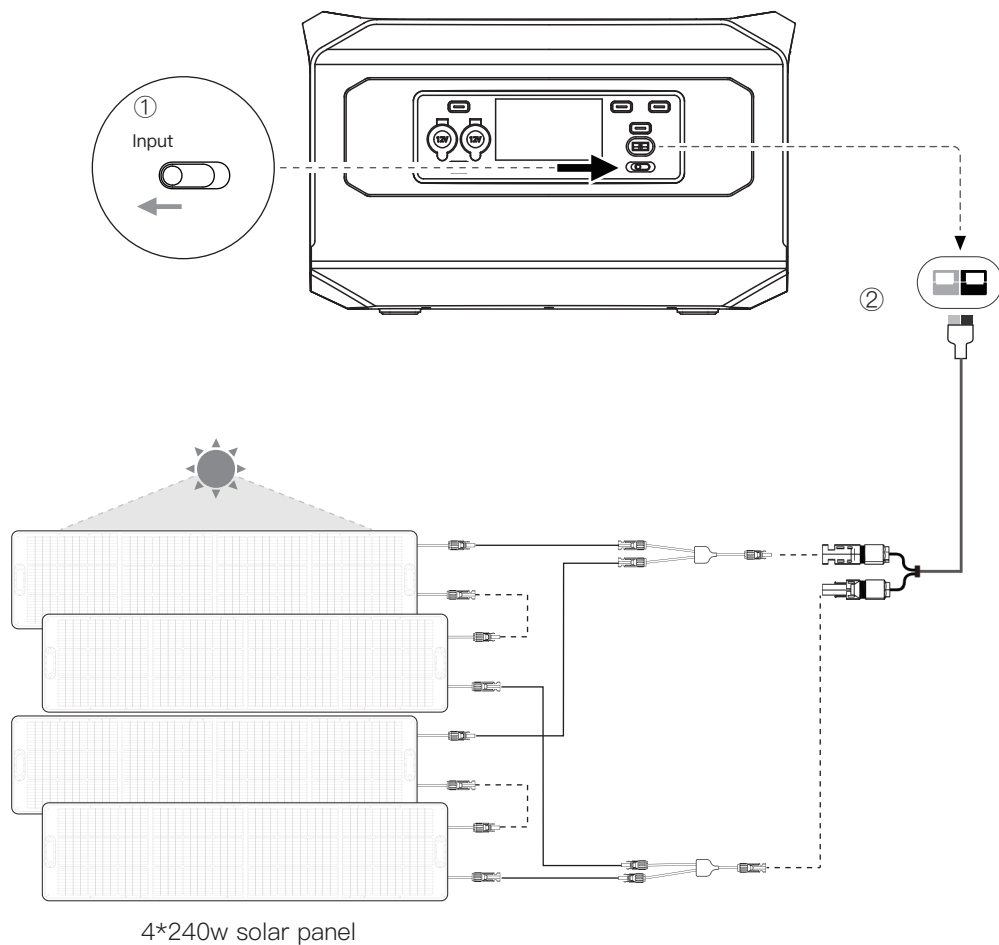
- 1 AC Input Speed Switch: Do not switch charging speed when the power station is charged or AC output power is on. When switching to the adjust side, charging resets to default, which can be adjusted on the app.
- 2 Default charging recommended. Fast charge only if required.
- 3 AC Input Over Current Protection: If the protector pops out, please disconnect all the connections and ensure that the AC input current is below 15A. Then, press the protector button to resume charging.



Recharge Methods

⚡ Solar Charging

- ① Slide the Anderson switch to the input side and then short press its power button.
- ② Please make sure the open-circuit voltage of the solar panel is below 80V.

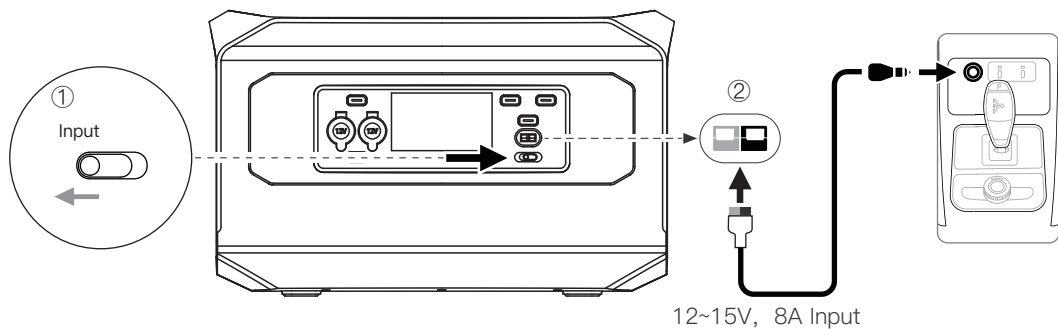


Adapter cables are not included and need to be purchased separately.

Recharge Methods

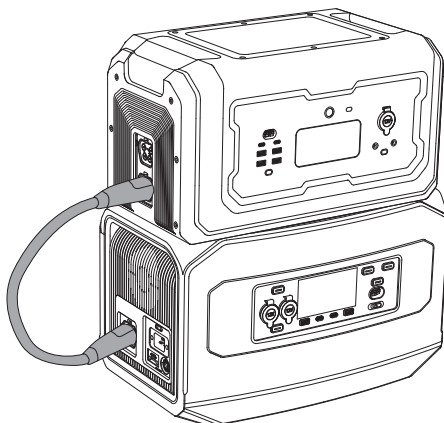
⚡ Cigarette Lighter Charging

- ① Slide the Anderson switch to the input side and then short press its power button.
- ② Start the car first, then connect the power station and cigarette lighter. Make sure they're in good connection.



⚡ Extra Battery Charging

Do not connect or disconnect the extra battery when the power station and the extra battery are on.



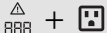
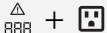
Error Code & Trouble Shooting

Error Code	Status	Cause	Solution
E00	 +  +  flashing, no output.	AC Output Short Circuit Protection.	Disconnect the AC load and check whether the connected device has excessive power or a short circuit.
E01	 +  +  flashing, no output.	Inverter Output Overcurrent Protection.	Turn off the device, disconnect the load, and restart after a short while.
E02	 +  +  flashing, no output.	Inverter Input Undervoltage Protection.	Disconnect the load, and charge the device.
E03	 +  flashing, no output.	Inverter High-Voltage Bus Overvoltage or Overcurrent Protection.	Turn off the device, disconnect the load, and restart after a short while.
E04	 +  flashing, no input	Grid Frequency Abnormality in Grid-tie or Charging Mode.	Wait for grid power to resume normal operation before using the device.
E05	 +  flashing, no output.	Inverter Output Low Bus Voltage Protection.	Turn off the device, disconnect the load, and restart after a short while.
E06	 +  +  flashing, no output.	Bypass Mode AC Output Overload Protection.	Disconnect the AC load and check whether the connected device has excessive power consumption or a short circuit.
E07	 +  +  flashing, no output.	Inverter Over-tem- perature Protection.	Discontinue use immediately and move the device to a cool, well-ventilated area to cool down. Resume operation only after the temperature returns to normal range.
E08	 +  +  flashing, no output.	Inverter Low Tempera- ture Protection.	Discontinue use and move the device to a warm environment. Resume operation only after the temperature returns to the normal range.
E09	 +  +  flashing, no output.	Off-grid Output Overload Protection	Reduce the connected load and manually restart the AC output.
E10	 +  +  flashing, no output.	Cigarette Lighter Port Overload or Short Circuit Protection.	Disconnect the load from the cigarette lighter port and check whether the connected device has excessive power consumption or a short circuit.
E11	 +  +  flashing, no output.	USB-A Port Overload or Short Circuit Protection.	Disconnect the load from the USB-A port and check whether the connected device has excessive power consumption or a short circuit.

Error Code & Trouble Shooting

Error Code	Status	Cause	Solution
E12	 + OVERLOAD  +  flashing, no output.	USB-C Port Overload or Short Circuit Protection.	Disconnect the load from the USB-C port and check whether the connected device has excessive power consumption or a short circuit.
E14	 +  flashing, no input	PV Input Overvoltage Protection.	Replace with solar panels within the specified voltage range.
	 +  flashing, no output.	Anderson Output Overvoltage Protection.	Disconnect the Anderson load, and check if the voltage of the connected load is too high.
E15	 +  flashing, no output	Anderson Port Overload or Short Circuit Protection.	Disconnect the load from the Anderson port and check whether the connected device has excessive power consumption or a short circuit.
E16	 +  flashing, no input and no output.	Anderson Port Low Temperature Protection.	Move the device to a warm environment and resume operation only after the temperature returns to the normal range.
E17	 +  flashing, no input and no output.	Anderson Port High Temperature Protection.	Discontinue use immediately and move the device to a cool, well-ventilated area to cool down. Resume operation only after the temperature returns to the normal range.
E18	 +  flashing, no output	Inverter Battery Input Overvoltage.	Turn off the device and disconnect the load. After a short while, restart the device to attempt automatic recovery.
E19	 +  flashing, no input	Grid Overvoltage or Undervoltage.	Please wait for grid power to stabilize before using the device.
E21	 +  flashing, no input	Battery Cell Overvoltage.	Stop charging immediately and discharge the battery until voltage returns to the normal range.
E22	 +  flashing, no output	Battery Cell Undervoltage Protection.	Charge the device until the voltage returns to the normal range.
E23	 +  flashing, no input	Battery Overvoltage.	Stop charging immediately and discharge the battery until voltage returns to the normal range.

Error Code & Trouble Shooting

Error Code	Status	Cause	Solution
E24	 flashing, no output	Battery Undervoltage Protection.	Charge the device until the voltage returns to the normal range.
E25	 flashing, no input and no output	Battery Over-temperature Protection.	Please discontinue use immediately and move the device to a cool, well-ventilated area to cool down. Resume operation only after the temperature returns to the normal range.
E26	 flashing, no input and no output	Battery Low Temperature Protection.	Please discontinue use and move the device to a warm environment. Resume operation only after the temperature returns to the normal range.
E27	 flashing, no DC output	Total Output Power Exceeds 4000W. System	Turn off all DC outputs and reduce the connected load before resuming operation.
E28	 flashing, no input	Charging Over-temperature Protection.	Please suspend charging and move the device to a cool, well-ventilated area to cool down. Resume charging only after the temperature returns to the normal range.
E29	 flashing, no output	BMS MOSFET Over-temperature.	Please suspend discharge and move the device to a cool, well-ventilated area to cool down. Resume operation only after the temperature returns to the normal range.
E30	 flashing	Incorrect extra battery Connected.	Please connect an extra battery of the correct model.
E46	 Flashing, no output	Inverter Off-grid Output Low Voltage Protection.	The connected load is too high. The output voltage has been reduced.
E49	 Flashing	Battery Level Below 5%.	Please connect to a power source for charging promptly.

If the issue persists, contact support.

1.How to clean the product?

Please use a dry, soft, clean cloth or paper towel to gently wipe the product.

2.How to store the product?

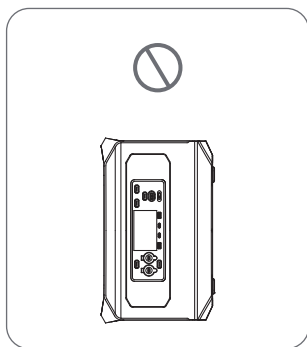
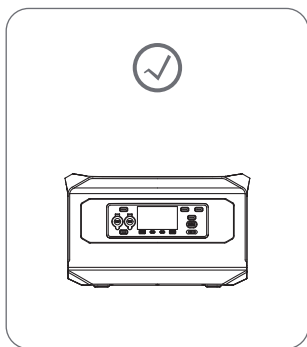
Store it in a dry, well-ventilated place at room temperature. The recommended storage temperature is $-4^{\circ}\text{F}\sim 140^{\circ}\text{F}$ ($-20^{\circ}\text{C}\sim 60^{\circ}\text{C}$) and keep it away from water resources, heat resources, metal objects and chemical substances.

3.How to maintain the product?

- (1) Charge it to around 60% capacity and turn off the product before storing it.
- (2) For long-term storage, it is recommended to fully discharge and then fully charge the battery(0%–100%) once every 3 months.
- (3) And the warranty will be voided if the product has not been charged or discharged in 6 months.
- (4) It is recommended to operate the output power at 80% of the rated power.

4.How to place the product?

It is advised to place the product horizontally.



Certification and Compliance

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.

Notice:

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:

- (1) Reorient or relocate the receiving antenna.
- (2) Increase the separation between the equipment and receiver.
- (3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- (4) 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.

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批准	伍鹏达		审核			确认			制作	邓钰臻	
										WeledPower®	
										深圳伟鹏世纪科技有限公司	
										标签规格	大小: 148*210mm
										比例: A5纸张	
										材质: 封面120g光面双铜,内部80g书写纸	
变更记录										工艺要求	骑马订 彩色印刷
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	③										
	②										
	①									料号	10503857
	日期	2025/11/06		制作完成				制作人: 邓钰臻		版本	V0.9