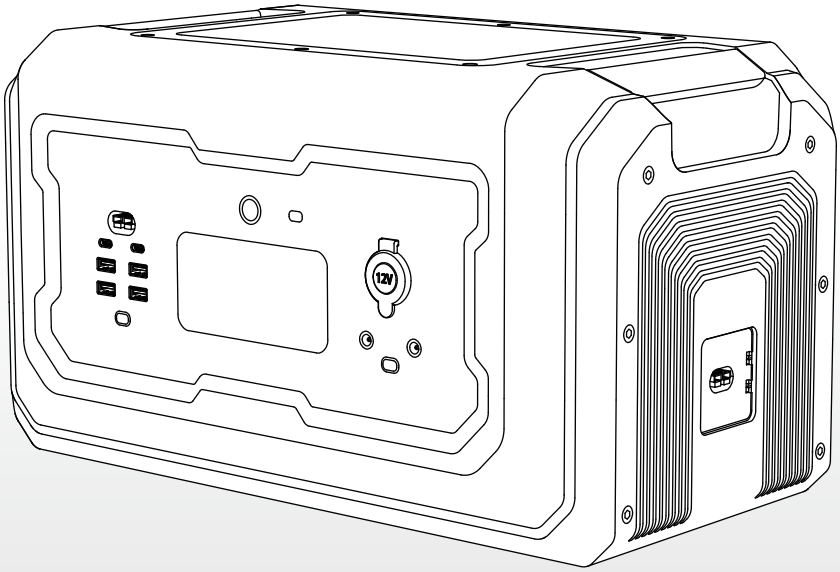
User Manual



S2-BAT

2048Wh Extra Battery

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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.

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 extin–guishers.

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 house-hold 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.

APP&Product List

APP

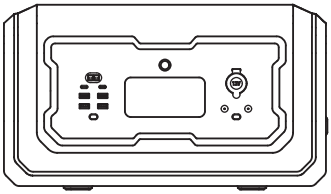
You can connect this product via APP to view information, control the device and personalize settings.

Scan the QR code to download our Smart Control APP.

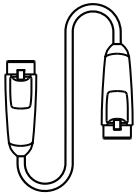
Available On App Store

Available On Google Play

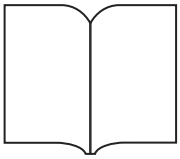
Product List



Extra Battery*1



Battery Expansion Cable*1



User Manual*1

Warranty Card*1

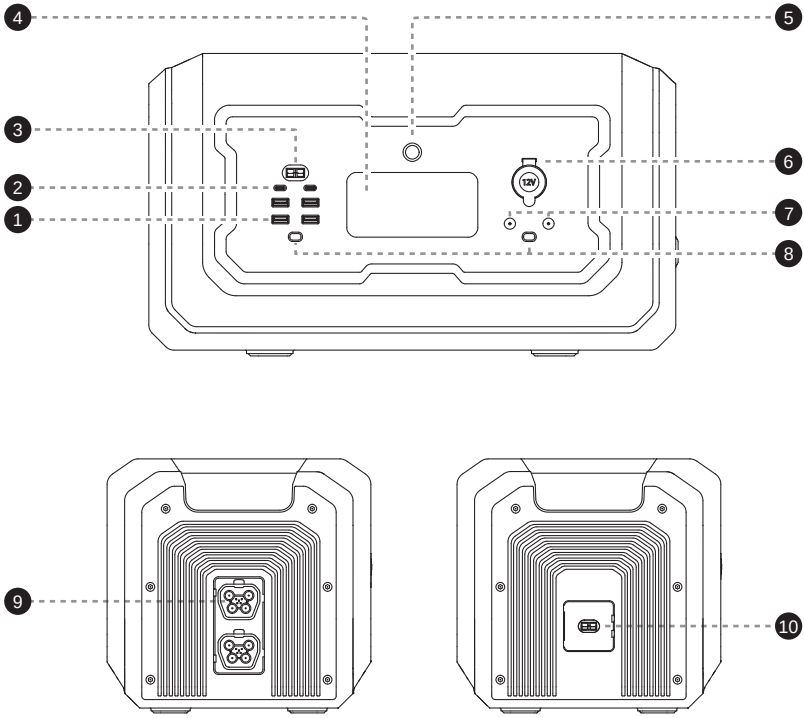
Product Description

Specifications

Output	
Extra Battery Port Output	44V~56.5V
DC 12V & Cigarette Lighter Output	12V10A 120W Total
USB-A Output	5V3A; 9V2A; 12V1.5A【18W Max】
USB-C Output	5V3A; 9V3A; 12V3A; 15V3A; 20V5A【100W Max】
Anderson Output	12V30A
Input	
Extra Battery Port Input	44V~56.5V
Solar Input	12V~148V MPPT: 18V~140V 15A Max 2100W Max
Cigarette Lighter Input	12V~15V 8A Max
General Info	
Battery Capacity	2048Wh（51.2V/40Ah)
Battery Type	LiFePO4
Working Temperature	32℉~104℉ (0℃~40℃)
Storage Temperature	-4℉~140℉ (-20℃~60℃)
Dimension	18.1*10.6*10.0in（460*270*255mm)
Net Weight	41.8lb（19kg)

Product Description

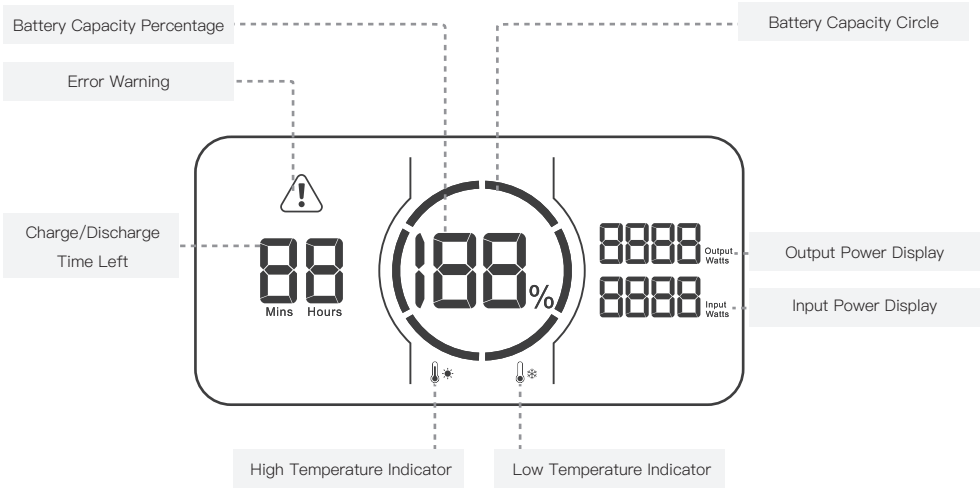
Overview



1.	USB-A Output Port	5.	Main Power Button	9.	Extra Battery Port
2.	USB-C Output Port	6.	Cigarette Lighter Output Port	10.	Solar/Car Input Port
3.	Anderson Output Port	7.	DC 5521 Output Port		
4.	LCD Screen	8.	DC Output Power Button		

Product Description

LCD Screen



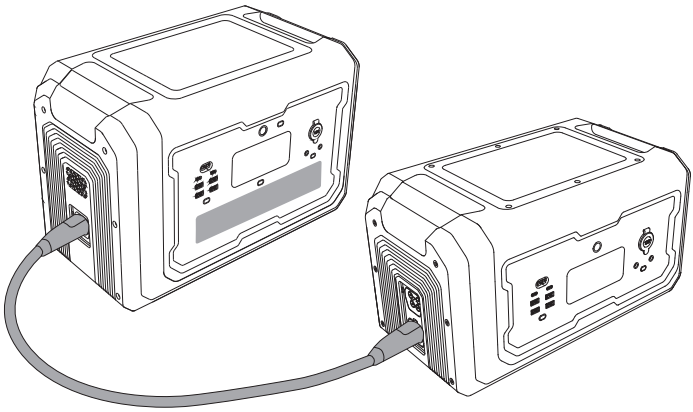
When the power station is charging and discharging simultaneously, it displays the remaining charge time if the input power exceeds output power; Otherwise, it shows a fixed number “99”.

Connection Method

a) Turn off the power station and the extra battery before connecting or disconnecting them.

b) Use battery expansion cable to connect the extra battery and the power station.

c) When successfully connecting, the extra battery and the power station will charge and discharge together.

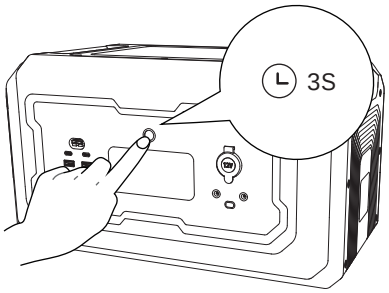


Power ON/OFF

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

b) When the main power is on, short press the main power button to turn the screen on or off.

c) The product will shut down after 5 minutes without operation.



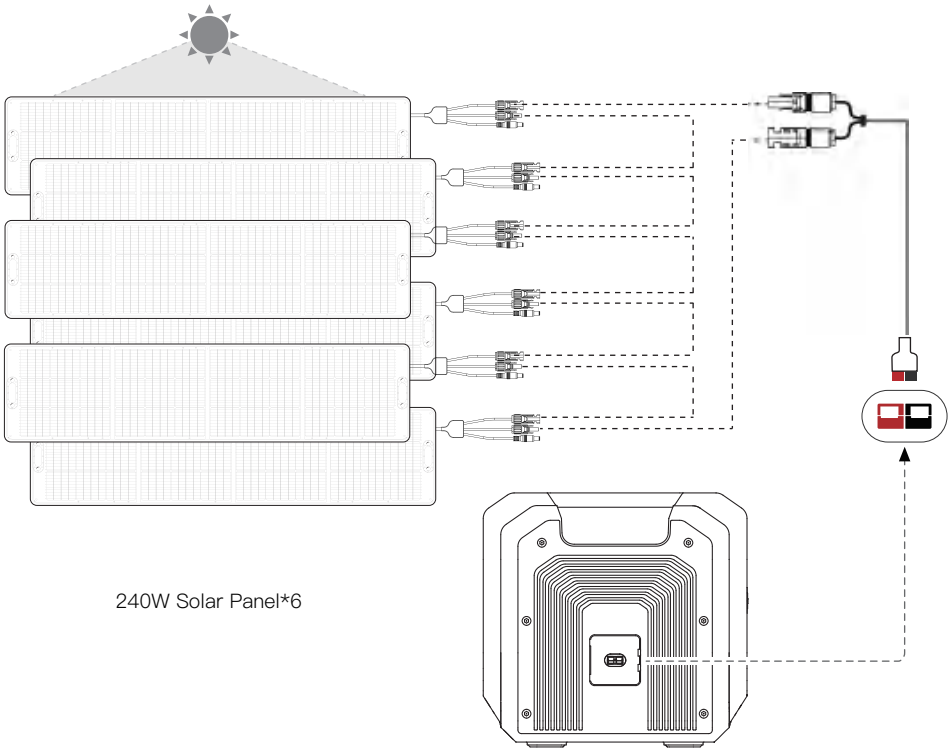
Solar Charging

a) Use MC4 to Anderson charging cable to connect solar panels and the power station.

b) Connect 6*240W solar panels at most in series to get maximum power.

c) Make sure the solar panels meet the following requirements:

OCV: 148V；Current: 15A；Max Power: 2100W



240W Solar Panel*6

Error Code & Trouble Shooting

Error Code	Status	Cause	Solution
E008	flashing, no output	Overload and short circuit of DC 12V30A output port	Press the DC output power button to restore.
E009	flashing	Overload or short circuit of DC 24V auxiliary power	Reduce the loads on DC output port.
E010	flashing, no output	Overload and short circuit of the cigarette lighter output port	Press the DC output power button to restore.
E011	flashing, no output	Overload or short circuit of the USB–A port	Press the DC output power button to restore
E012	flashing, no output	Overload of the USB-C port	Press the DC output button to restore.
E014	flashing, no input	Over temperature of internal PV charging board.	Stop charging and wait for the temperature returning to normal.
E015	flashing, no output	Over temperature of 12V30A output port.	Restart after the tempera-ture returning to normal.
E020	flashing	BMS communication failure.	Contact after sales service team for further support.
E021	flashing	Over voltage of single battery cell.	Stop charging and start discharging until the battery voltage returns to normal.
E022	flashing, no output	Low Voltage of single battery cell.	Charge the device until the voltage returns to normal.
E023	flashing	Battery total voltage too high.	Stop charging and start discharging until the battery voltage returns to normal.
E024	flashing, no output	Battery total voltage too low.	Charge the device until the voltage returns to normal.

Error Code & Trouble Shooting

Error Code	Status	Cause	Solution
E025	flashing, no output	High temperature of battery.	The device will automatically return to normal when the temperature returns to normal.
E026	flashing, no output	Low temperature of battery.	The device will automatically return to normal when the temperature returns to normal.
E028	flashing, no input	Charge over temperature.	Charge the device after the temperature returning to normal.
E029	flashing, no input	Over temperature of MOSFET.	The device will automatically return to normal when the temperature returns to normal.
E030	flashing	Connect the wrong expansion battery.	Connect correct extra battery to restore.

If the issue persists, contact support.

FAQ

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˚F~140˚F (–20˚C~60˚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.Can this product be charged using a gasoline or diesel generator?

Yes, it can be charged with a generator that has a built–in pure sine wave inverter. The company will not be responsible for any product damage caused by using a generator without this feature.

5.Can this product be brought on board a plane?

No, this product cannot be brought on board a plane due to aviation regulations for lithium–based batteries.

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 instal– lation. 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.