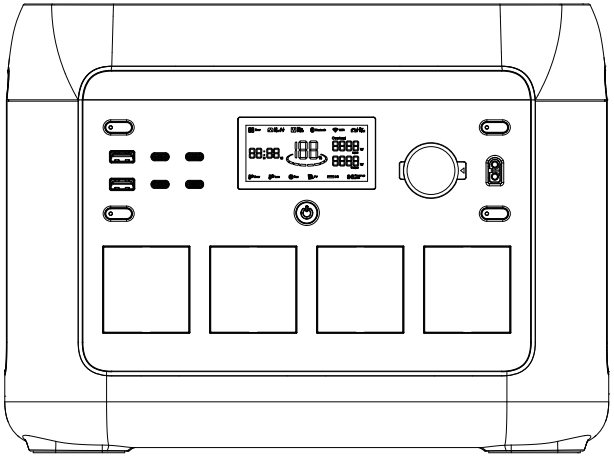
USER MANUAL

1800W-Pro Portable Power Station

Model: SR1KW8L-SG2-US



This manual is a general version. If the purchased unit does not support wireless charging, please disregard the related descriptions.

CONTENTS

1. Parameters

General

Net weight	≈11.6kg (≈25.6lbs)
Dimension	350x224x260mm (13.8*8.8*10.2 in)
Battery capacity	1024Wh, 51.2V ⎓, 20Ah
Wi-Fi	Supported

Output

(UK/EU/FR/AU/ZA) AC socket*4

Inverter mode	pure sine-wave, total 1800W(Peak 3000W), 220-240V~, 50Hz/60Hz, 9A
Bypass mode	220-240V~, 50Hz/60Hz, 1800W Max., 9A

(US) AC socket*4

Inverter mode	pure sine-wave, total 1800W(Peak 3000W), 100-120V~, 60Hz, 18A
Bypass mode	100-120V~, 60Hz, 1440W Max., 12A

USB-C1/C2	5/9V⎓3A, 12V⎓2.5A, 15V⎓2A, 20V⎓1.5A, 30W Max.
USB-C3/C4	5/9/12/15V⎓3A, 20V⎓5A, 28V⎓5A, 140W Max.
USB-A1+A2	5V⎓2.4A, 12W Max.
Car charger	12.6V⎓10A, 126W Max.
XT60 port	12.6V⎓30A, 378W Max.
Car charger+ XT60 total output power	378W Max.
Total DC output power	500W Max.
Wireless charging (Optional)	25W Max.

*Inverter mode: the AC output power comes from the battery, not the grid.
*Bypass mode: the AC output power comes from the grid, not the battery.

Input

(UK/EU/FR/AU/ZA)

AC input power	2200W Max., 10A
AC input voltage	220-240V~, 50Hz/60Hz

(US)

AC input power	1440W Max., 12A
AC input voltage	100-120V~, 60Hz

PV charge XT60 input	11-60V ⎓20A, 800W Max.
PV charge DC7909 input	11-60V ⎓10A, 400W Max.
Car charging input	12/24V battery supported, 8A by default

Input Charging

AC charging power	1500W Max.
PV charging power	800W Max.
Car charging power	192W Max.
AC+PV charging power	1500W Max.

Battery *Test conditions: 95% DOD, 0.5C charge&discharge at +25±3°C, 70%SOH.

Battery type	Lithium iron phosphate battery (LiFePO4)
Life cycle	4000 cycles
Protection type	Over-temperature protection, Low-temperature protection, Over-discharging protection, Over-charging protection, Overload protection, Short-circuit protection, Over-current protection

Operating temperature

*Whether the product can be charged or discharged is subject to the actual temperature of battery pack .

Optimal operating temperature	20°C~30°C (68°F~86°F)
Discharge temperature range	-20°C~45°C (-4°F~113°F)
Charge temperature range	0°C~45°C (32°F~113°F)
Storage ambient temperature	-20°C~45°C (20°C~30°C preferred)【-4°F~113°F (68°F~86°F preferred)】

Battery Expansion Pack 614Wh

Power input/Output	40-57.6V⎓ 12A charging(Max.), 24A discharging(Max.)
Capacity	Supports up to 6 Battery Expansion Packs (sold separately).

Battery Expansion Pack 2560Wh

Power input/Output	40-57.6V⎓ 50A charging(Max.), 70A discharging(Max.)
Capacity	Supports up to 6 Battery Expansion Packs (sold separately).

2. Safety Guidelines

2.1 Warning

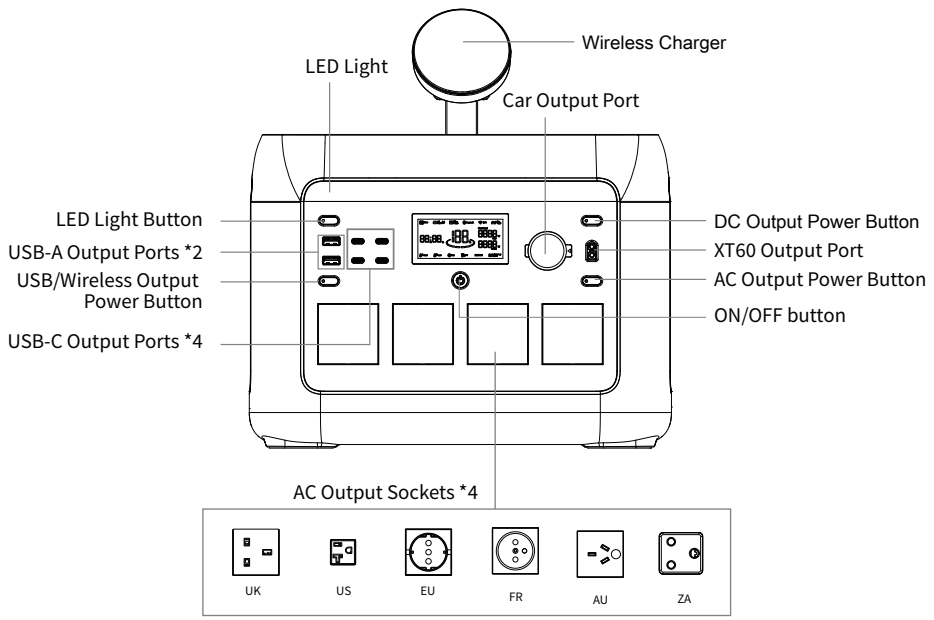
1. Do not place this product near heat sources while it is operating, such as open flames or heaters.
2. Keep this product away from all liquids. Do not immerse it in water or allow it to get wet. Never use the product in the rain or in humid environments.
3. Do not use this product in environments with strong static electricity or strong magnetic fields.
4. Do not disassemble or puncture this product in any way using sharp objects.
5. Do not short-circuit the product using wires or other metal objects.
6. Do not step on, sit on, or climb on the product.
7. Do not use any parts or accessories not provided by the manufacturer. For replacements, please refer to official sales channels.
8. Use this product strictly within the operating temperature range specified in this manual. Excessive heat may cause the battery to catch fire or even explode; excessive cold may severely reduce product performance and affect normal use.
9. Do not place heavy objects on top of this product.
10. Do not forcibly block the fan while the product is in use. Avoid using the product in poorly ventilated or dusty environments.
11. Avoid impacts, drops, or strong vibrations. If the product experiences significant external impact, immediately power it off and stop using it. Secure the product during transport to prevent shock or collision.
12. If the product is accidentally dropped into water, place it in a safe and open area, and stay away until it is completely dry. Do not reuse the product once dried. Dispose of it properly as described in Section 2.2 (Disposal). If the product catches fire, use firefighting equipment in the following recommended order: water or mist, sand, fire blanket, dry powder, or CO_2 extinguisher.
13. If there is dirt on the product' s ports, wipe it off with a dry cloth.
14. Place the product securely to prevent it from tipping over. In case of severe damage caused by tipping, immediately shut it down, place the battery in an open area away from flammable materials and people, and dispose of it in accordance with local laws and regulations.
15. Keep the product out of reach of children and pets.
16. Store the product in a dry, well-ventilated place.
17. When using the product in humid environments (e.g., near the sea or water), it is recommended to use it with a moisture-proof bag to avoid water ingress. If water enters the product, do not reuse or power it on.
18. This product is not recommended for powering life-support or safety-critical medical devices, including but not limited to hospital-grade CPAP (Continuous Positive Airway Pressure) machines and ECMO (Extracorporeal Membrane Oxygenation) systems. However, home-use CPAP machines for general household environments may be used, as they typically do not require constant professional monitoring. Please follow medical advice and consult the device manufacturer regarding usage limitations. For general medical equipment, always monitor battery levels to avoid power depletion.
19. Power supplies will inevitably generate electromagnetic fields when it is in use, which might affect the implantable medical device or normal operation of personal medical device, such as pacemaker devices, cochlear implants, hearing AIDs, defibrillators, etc. If any of these medical devices are used, please consult the manufacturer about the restrictions on the use to ensure that power station is operated at a safe distance from implanted medical devices such as pacemakers, cochlear implants, hearing AIDs, defibrillators, etc.
20. When connecting a refrigerator load in normal mode, power fluctuations may cause the power supply to shut down automatically. For refrigerators storing medicine, vaccines, or other high-value items, make sure to set the AC output to “Always On” via the app to ensure continuous power. Monitor the remaining battery level closely.
21. Do not place any items on top of the product while moving it by pushing or pulling.
22. Warning: Operating this device in a residential environment may cause radio interference.

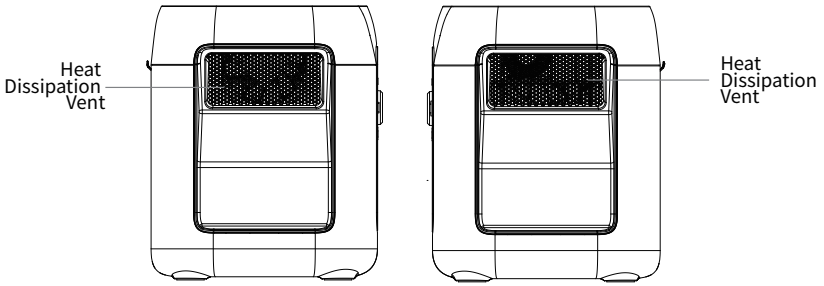
2.2 Disposal

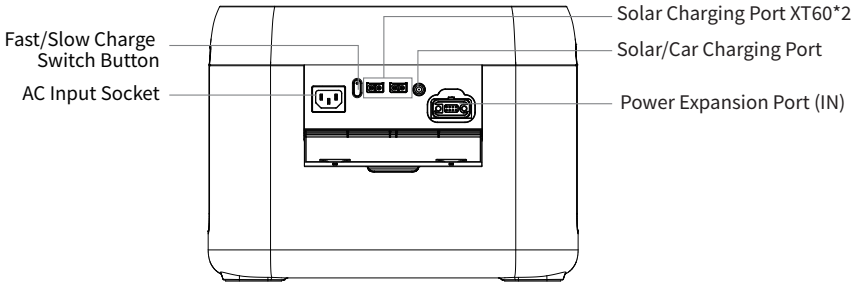
1. If conditions permit, please ensure the battery is fully discharged before placing the product in a designated battery recycling bin. This product contains a battery, which is classified as hazardous chemical waste and must not be disposed of in regular trash bins. For more details, please follow local laws and regulations regarding battery recycling and disposal.
2. If the battery cannot be fully discharged due to a product malfunction, do not place it directly into a recycling bin. Instead, contact a certified battery recycling company for proper handling.
3. If the battery is over-discharged and cannot be restarted, please treat it as waste and dispose of it accordingly.

3. Guideline for Users

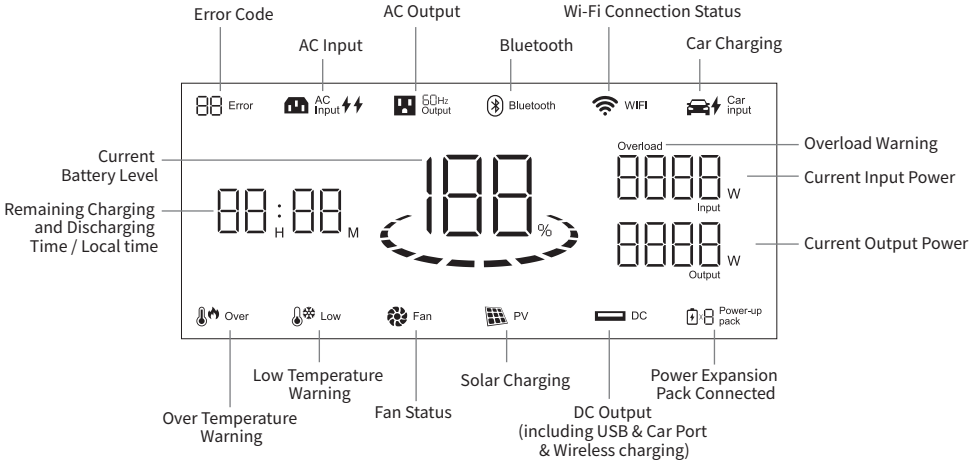
3.1 Product Overview







3.2 LCD Screen



Time display: The time display on the LCD screen contains two types of information: the remaining charging/discharging time of the current device(generally showing 7 seconds), and the local time of the region where the device is located(generally showing 3 seconds).

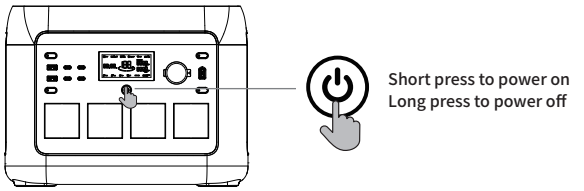
Battery Capacity: When the power station is charging, the SOC (State of Charge) icon will blink.

Wi-Fi Connection Status: During Wi-Fi reset, the Wi-Fi icon will flash for 3 seconds. It will remain lit when the Wi-Fi is successfully connected and will go out when the Wi-Fi is disconnected.

Bluetooth Connection Status: The Bluetooth icon will light up when the product is matched wirelessly. It will remain lit when the Bluetooth connection is successful and will turn off when the Bluetooth is disconnected.

*For details on error codes and troubleshooting, please refer to Chapter 5.

3.3 Use of Product



Power On and Off

• To turn on the device, press the main power switch. The screen will light up, and the main power indicator will turn on.

• If the device remains idle for 5 minutes, the LCD display will automatically turn off. The LCD will light up again when the device is plugged in or unplugged from the grid, PV, car charger, or when the key operation is used. You can manually control the LCD display by pressing the main power switch to turn it on or off.

• To completely power off the device, press and hold the main power switch.

Standby Mode

• In normal operation (when power is above 5%), the default standby time is set to 2 hours. If the AC output switch is off, and there is no charge or discharge activity for 2 hours, the device will automatically shut down. You can adjust the standby time via the app.

• When the power level reaches 5% or below, the device will enter low power mode. If there is no charge or discharge activity, the standby time will adjust based on the remaining power, and the device will automatically shut down.

Never-Power-Off Mode

• In normal mode, press and hold the LED light button to enable Never-Power-Off mode. The icon on the screen will flash. Press and hold again to re-enter the automatic shutdown mode, at which point the icon will remain steady.

Note: The automatic shutdown feature is designed to protect the battery from overdischarge. Exiting this setting may reduce battery lifespan, so please proceed with caution.

The wireless charger supports phones compatible with the Qi2.2 standard. To activate the wireless charging function, briefly press the USB/Wireless output switch after turning on the power station.

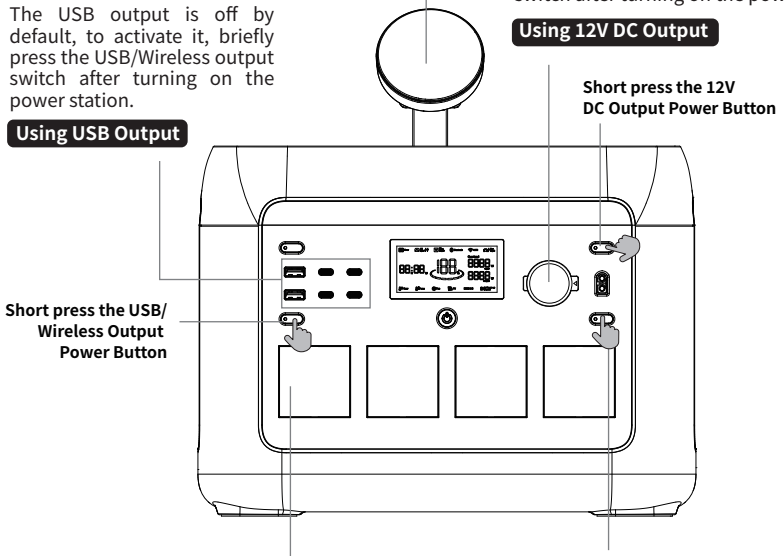
Using wireless charging

The USB output is off by default, to activate it, briefly press the USB/Wireless output switch after turning on the power station.

Using USB Output

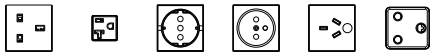
The cigarette lighter output is off by default. To activate it, briefly press the DC output switch after turning on the power station.

Using 12V DC Output



Note: When there is no AC input, you can switch the AC off-grid output frequency (50Hz Output / 60Hz Output)by long pressing the AC output button for 2 seconds. The AC output icon will flash three times to indicate successful switching.

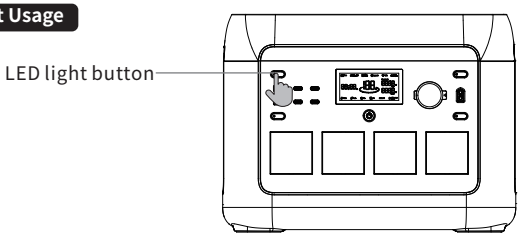
Using AC Output



- After ensuring the power station is turned on, briefly press the AC output power switch to activate the AC output. Press it again to turn off the AC output.
- The default standby time for the AC output port is 1 hour. If no load is connected within this period, the AC output will automatically turn off. To enable the Never-Power-Off function, press and hold the LED light button. The icon will flash to indicate the change. Press and hold the LED light button again to exit the Never-Power-Off setting, and the icon will stop flashing. (Note: The Never-Power-Off mode is disabled by default. After restart, you need to press and hold the LED light button again to turn it on.)
- The option to enable the Never-Power-Off setting is suitable for AC equipment below 10W and pulse-operated devices.
- To conserve energy, please turn off the AC output and the Never-Power-Off mode when it's not in use.

Short press the LED light button to cycle through five modes: Low, Medium, High, SOS, and Off.

LED Light Usage



3.4 AC Charging

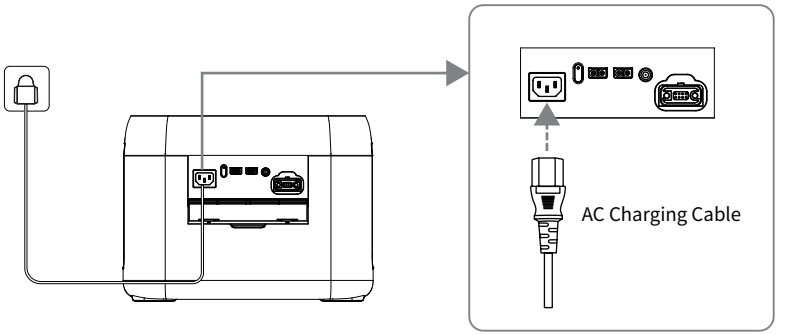
By default, the product is set to fast charging mode when powered on. If your product has Wi-Fi functionality, you can control the charging rate via the app.

During the fast charging process, the lightning icon on the LCD display for AC input remains constantly illuminated. If you need to switch between fast and slow charging, simply press the AC fast/slow charging switch button briefly. (When Wi-Fi function is not available)

In fast charging mode, the maximum AC charging power is 1500W, and it takes approximately 1.17 hours to fully charge.

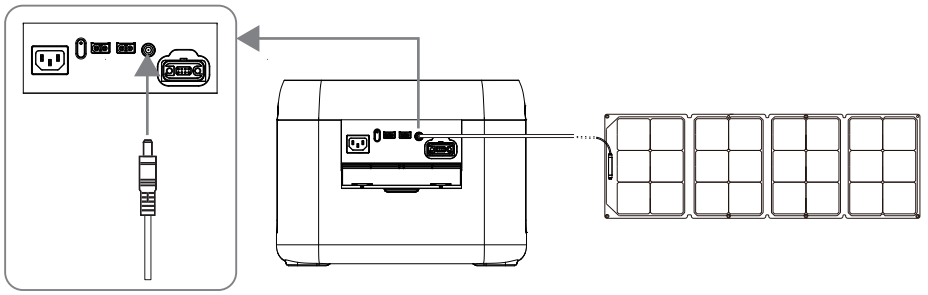
In slow charging mode, the maximum AC charging power is 300W, and it takes about 4 hours to fully charge.

*AC Fast Charging Mode: charging time deviation ±0.1h.
*Conditions: New battery, fully discharged at 1C rate under room temperature, then rested for 2 hours at room temperature before performing AC fast charging at room temperature.



Please ensure to use the standard AC charging cable provided. Connect the cable directly to a wall outlet rated for 10A or higher. We are not liable for any damages resulting from the use of unauthorized charging accessories or failure to follow these instructions.

3.5 Solar/PV Charging



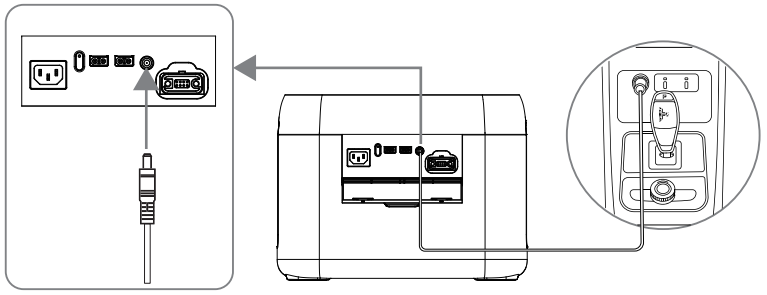
The user can charge the product with a solar panel as shown in the diagram.

Solar Charging Cable (DC7909)

- When using the company's solar panel to charge this product, please follow the connection guidelines outlined in the user manual.
- Before connecting the solar panel, ensure that its output voltage is within the supported range of the product to avoid damage.
- This product uses a DC7909 connector. If an MC4 to DC7909 adapter cable is needed, please purchase it separately.
- This product supports solar charging via the XT60 and DC7909 terminal. If an XT60 to MC4 adapter cable is needed, please purchase it seperately.

Note:It is not supported to use the XT60 port and the DC7909 port simultaneously, meaning that solar charging and car charging cannot be carried out at the same time.

3.6 Car Charging



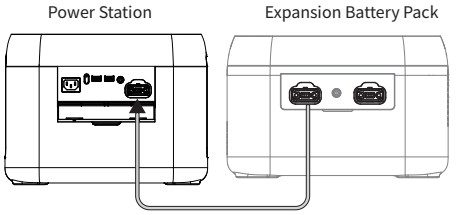
Car Charging Cable (DC7909)

The power station can be charged via the vehicle's cigarette lighter port. To prevent battery drain and potential failure to start the engine, charging should only begin after the vehicle is running. Always ensure a secure connection between the car charging port (DC7909) and the cigarette lighter adapter. We are not liable for any losses resulting from improper operation.

3.7 Use of Expansion Battery Pack

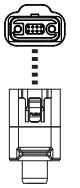
Parallel Connection of One Portable Power Station and One 614Wh Expansion Battery Pack:

1. Turn off both the portable power station and the expansion battery pack before starting the parallel connection.
2. Insert the parallel connection cable into the Expansion Port of the portable power station and the Power Input/Output port of the expansion battery pack.
3. After connecting, press the power button on the portable power station to wake up both devices. The displays will show their current battery levels, and the portable power station will indicate the number of connected units, confirming a successful parallel connection.
4. Once connected, use the appropriate ports on the portable power station for charging or discharging (refer to sections 3.3, 3.4, 3.5, and 3.6 of the Quick Start Guide).

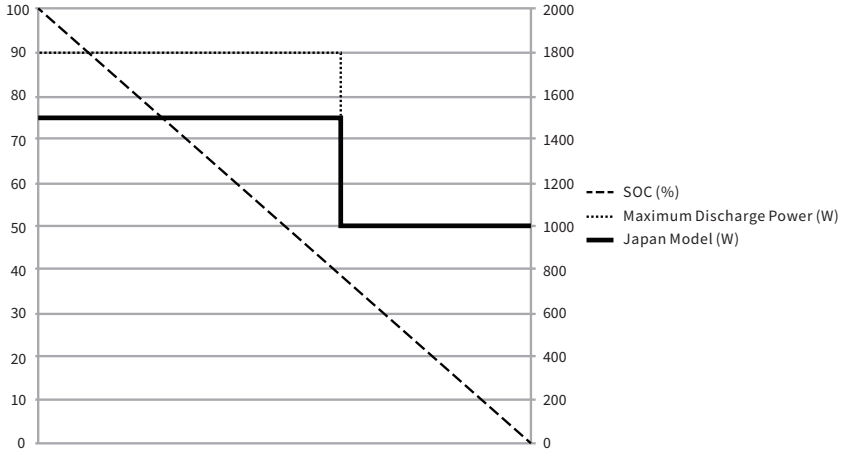


Note: The expansion battery pack supports connection to the portable power station via either of its two ports.

The parallel connection cable is reversible—both ends can be used to connect to either the battery pack or the power station's Expansion Port.



Maximum Discharge Power Curve of the 1.8kW Power Station When Paired With the 614Wh Expansion Pack



Note:

When this product is used together with the 614Wh Expansion Pack, the system' s maximum discharge power varies according to the State of Charge (SOC), as follows:

Discharge Stages:

System SOC 100%–36%: Maximum discharge power is 1800W (for Japan models: 1500W).

System SOC 36%–0%: Maximum discharge power is limited to 1000W. (During this stage, if the connected load exceeds 1000W, the system will shut down the output. To restore power, turn off or disconnect the high-power load and ensure the load remains below 1000W.)

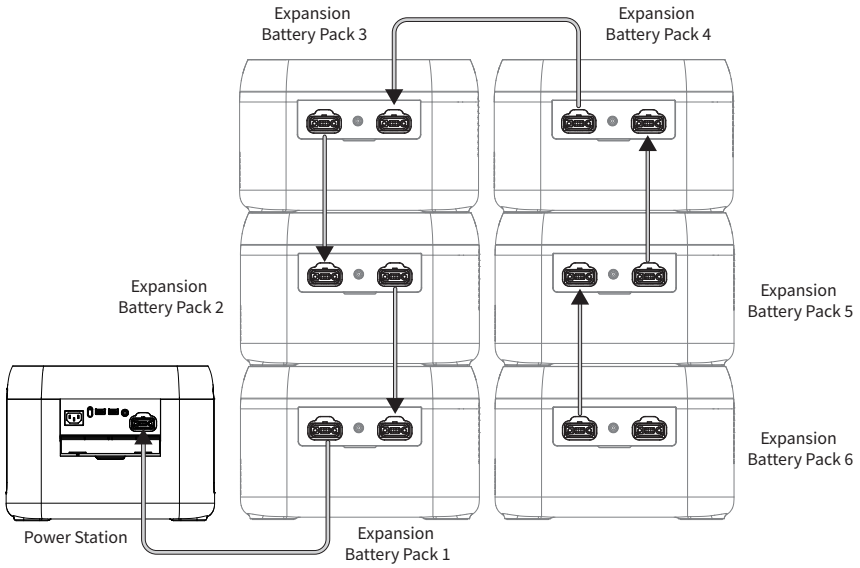
Parallel Connection of One Portable Power Station with Multiple 614Wh Expansion Battery Packs:

1. Turn off the portable power station and all expansion battery packs before starting the parallel connection.

2. Connect the parallel cable to the Expansion Port of the portable power station and the Power Input/Output port of Expansion Battery Pack 1. Then connect Expansion Battery Pack 1 to Expansion Battery Pack 2 via their Power Input/Output ports, followed by connecting Expansion Battery Pack 2 to Expansion Battery Pack 3, and so on. Up to six expansion battery packs can be connected in parallel.

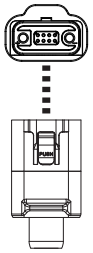
3. Once all connections are complete, press the power button on the portable power station to wake up the system. The displays will show the current battery levels, and the portable power station will indicate the number of connected units, confirming a successful parallel setup.

4. After the parallel connection is established, use the appropriate ports on the portable power station for charging or discharging (refer to Quick Start Guide sections 3.3, 3.4, 3.5, and 3.6).



Note: The expansion battery pack supports connection to the portable power station via either of its two ports.

The parallel connection cable is reversible—both ends can be used to connect to either the battery pack or the power station's Expansion Port.



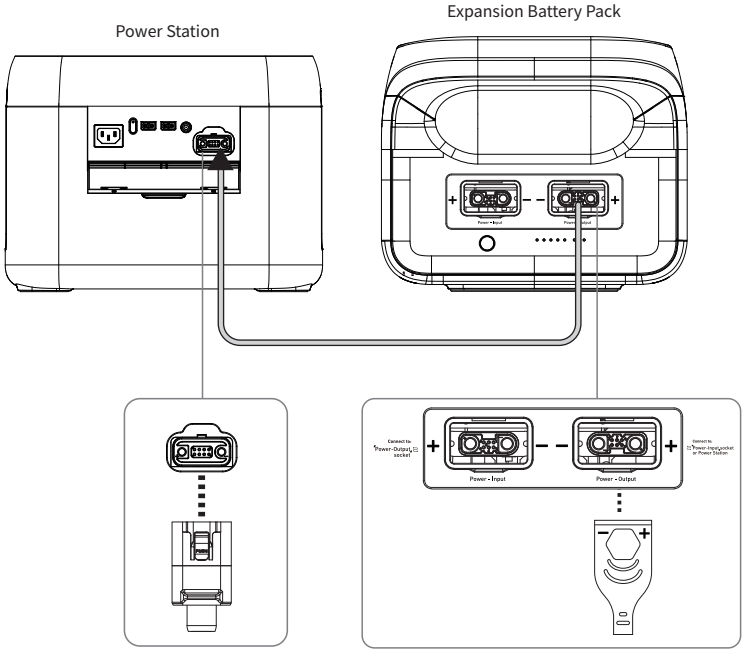
Parallel Connection of One Portable Power Station and One 2560Wh Expansion Battery Pack:

1. Turn off both the portable power station and the expansion battery pack before starting the parallel connection.

2. Insert the parallel connection cable into the Expansion Port of the portable power station and the Power Input/Output port of the expansion battery pack.

3. After connecting, press the power button on the portable power station to wake up both devices. The displays will show their current battery levels, and the portable power station will indicate the number of connected units, confirming a successful parallel connection.

4. Once connected, use the appropriate ports on the portable power station for charging or discharging (refer to sections 3.3, 3.4, 3.5, and 3.6 of the Quick Start Guide).



Note: The interface for the expansion battery pack has the symbols "+, -" to prevent reverse connection.

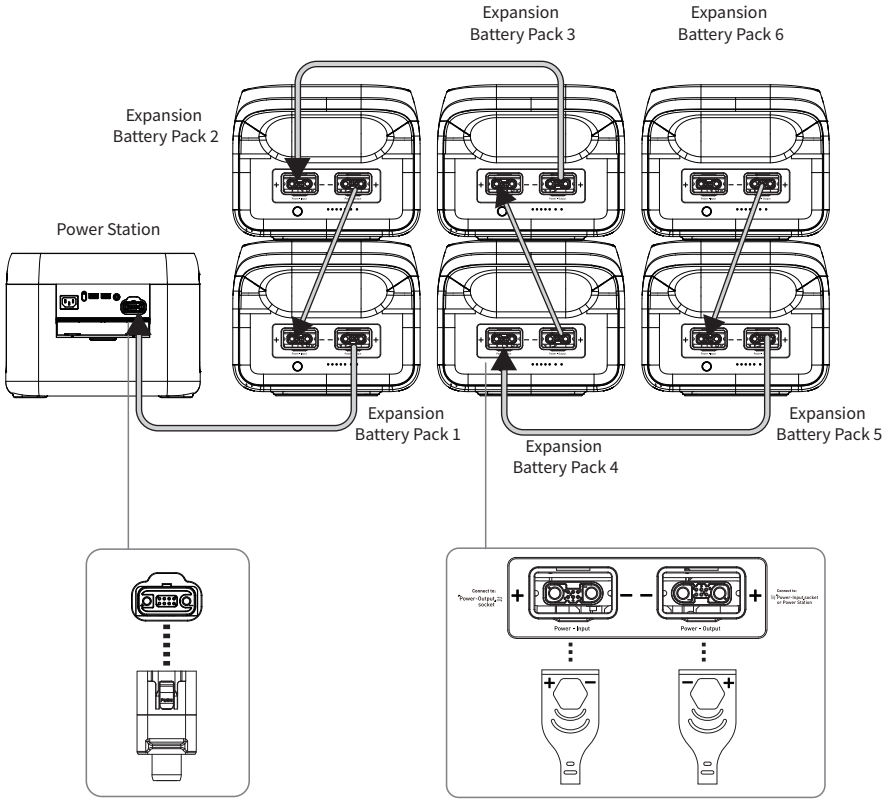
Parallel Connection of One Portable Power Station with Multiple 2560Wh Expansion Battery Packs:

1. Turn off the portable power station and all expansion battery packs before starting the parallel connection.

2. Connect the parallel cable to the Expansion Port of the portable power station and the Power Input/Output port of Expansion Battery Pack 1. Then connect Expansion Battery Pack 1 to Expansion Battery Pack 2 via their Power Input/Output ports, followed by connecting Expansion Battery Pack 2 to Expansion Battery Pack 3, and so on. Up to six expansion battery packs can be connected in parallel.

3. Once all connections are complete, press the power button on the portable power station to wake up the system. The displays will show the current battery levels, and the portable power station will indicate the number of connected units, confirming a successful parallel setup.

4. After the parallel connection is established, use the appropriate ports on the portable power station for charging or discharging (refer to Quick Start Guide sections 3.3, 3.4, 3.5, and 3.6).



Note: The interface for the expansion battery pack has the symbols "+, -" to prevent reverse connection.

3.8 P-boost Function

The P-Boost function allows the product to power appliances that exceed its rated power without triggering overload protection. In P-Boost Mode, the JP version of this product supports a load of 2700W, while the EU/UK/US/AU/ZA versions can handle a load of 3000W. When high-power appliances are connected, the inverter intelligently adjusts the output to maintain a stable power supply, ensuring the appliances continue to operate reliably.

Important Notes for Using the P-Boost Function:

1. The P-Boost function is disabled by default and can be turned on/off via the app.

2. The P-Boost function will not be enabled in the following cases:

(1) When the AC output is turned on while the product is charging (which is in bypass mode).

(2) When the P-Boost function is turned off.

3. When using appliances that exceed the product's rated power, connect only one appliance at a time.

Connecting multiple appliances may cause voltage fluctuations, affecting the performance of other devices.

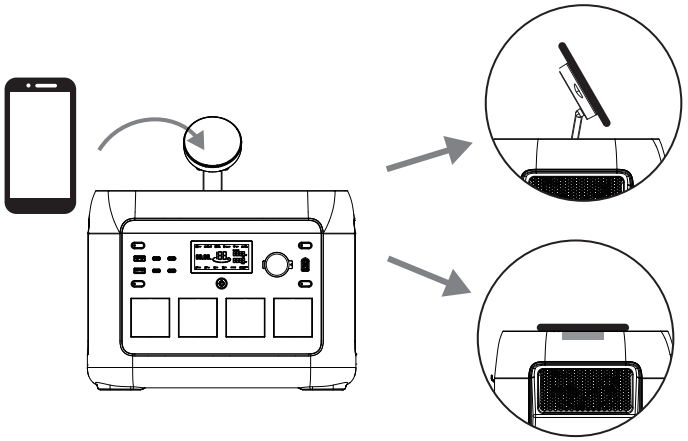
4. The P-Boost function is more suitable for resistive loads and not applicable to all electrical appliances. Certain electrical appliances equipped with voltage protection (such as precision instruments) are not suitable for the P-Boost function. To confirm whether a device can use this function, actual testing shall prevail.

3.9 Use of APP

You can control and monitor the product's information and data through the app. To download the software, search for [Smart Life] in the Google App Store or Apple App Store, then download, register, and open it. Alternatively, scan the QR code below to download the app. For detailed instructions on using the app, please refer to the App User Guide.

3.10 Wireless Charging (Optional)

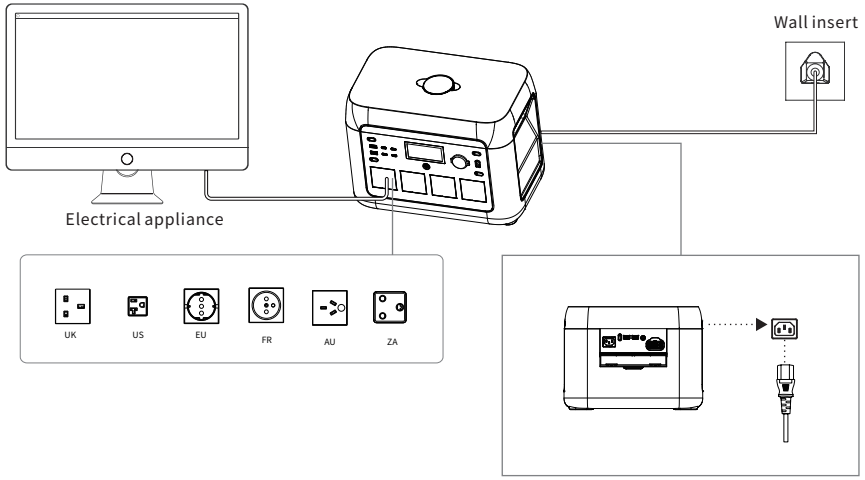
Place your phone steadily on the wireless charging stand to charge devices that support the Qi2.2 standard. Note: Ensure that the USB/Wireless output is turned on before using the wireless charger. You can place your phone flat on the wireless charger stand or at different angles for charging.



3.11 EPS Function (Emergency Power Supply)

This product supports the EPS (Emergency Power Supply) function. To use it, connect the AC input port of the product to the wall socket via the AC charging cable. In Bypass mode, the AC power is supplied by the grid, not the battery. When the grid power is interrupted, the product will automatically switch to Inverter mode within 10ms, where AC power will be supplied by the battery instead of the grid. This function does not support 0ms switching. Do not connect it to devices requiring uninterrupted power supply, such as data servers or workstations. If you choose to use it with such devices, ensure multiple tests are conducted to confirm compatibility. It is recommended to use only one device at a time to avoid triggering overload protection.

Please note, if the device does not operate correctly or if data loss occurs due to non-compliance with these instructions, our company will not be responsible for any resulting issues.



4. FAQ (Frequently Asked Questions)

1. What kind of battery is used?

Lithium iron phosphate battery (LiFePO4).

2. What kind of equipment can be connected to the AC output ports?

The AC output port of the product has a high-rated power capacity, suitable for small household equipment. We recommend verifying the power requirements of your equipment before use to ensure that the total power consumption of all connected devices is lower than the rated power.

3. How to know how long the PPS can supply power?

The time is displayed on the LCD screen, which can be referred to for estimating the runtime of equipment with stable power consumption.

4. How to know it is charging?

When charging, the LCD will display the remaining charging time. The SOC icon will flicker, and input power will be shown.

5. How to clean the unit?

Clean the unit with a dry, soft and clean cloth or tissue.

6. How to store the unit?

Turn off the unit and store it in a dry, well-ventilated place. Avoid exposure to water. For long-term storage, charge and discharge the unit every 3 months. Discharge it to 0%, then charge it to 100%, and finally discharge it to 48%–52%.

7. Can it be taken on board an airplane?

No.

5. Error Display&Solutions

Error Icon Display	Fault Type	Solution
01 Error — Fault Code (steady on)	Cell voltage sampling fault (open circuit)	Restart the device to clear the fault. If not recovered, contact the after-sales service.
02 Error — Fault Code (steady on)	Excessive voltage difference	Auto shutdown, restart to clear the fault, if not recovered, contact the after-sales service.
03 Error — Fault Code (steady on)	BMS voltage fault	Auto shutdown, restart to clear the fault, if not recovered, contact the after-sales service.
Over 04 Error — Over Temp Icon (steady on) Fault Code (steady on)	Battery OTP(over temperature protection) fault	Automatic shutdown, fault cleared after temperature recovery.
Low 05 Error — Low Temp Icon (steady on) Fault Code (steady on)	Battery UTP (under temperature protection) fault	
06 Error — Fault Code (steady on)	OCP(Over current protection) fault	Auto shutdown. Restart the device after removing the overpowered equipment to clear the fault.
Over 07 Error — Over Temp Icon (steady on) Fault Code (steady on)	BMS board over-temperature fault	Automatic shutdown, fault cleared after temperature recovery.
08 Error — Fault Code (steady on)	Pre-charge abnormal	Auto shutdown, restart to clear the fault, if not recovered, contact the after-sales service.
09 Error — Fault Code (steady on)	Battery undervoltage fault	Automatic shutdown. Requires charging. Contact after-sales service if charging fails repeatedly or is unavailable.
10 Error — Fault Code (steady on)	Parallel Operation Fault	Check the parallel connection cables and restart the device multiple times. If the problem persists, contact after-sales service. (Single power station function is not affected.)
11 Error — Fault Code (steady on)	INV battery port voltage abnormal	Remove all charging and discharging devices, charge using AC or PV power, and the fault will be automatically cleared once charging starts successfully.
12 Error — Fault Code (steady on)	Grid voltage/frequency abnormal	Remove all charging and discharging equipment, the fault will be automatically cleared, and check whether the voltage, frequency, etc. of the charging equipment meet the specifications.
13 Error — Fault Code (steady on)	INV BUS Battery Voltage Abnormal	Remove all charging and discharging devices, and the fault will be automatically cleared.
14 Error — Fault Code (steady on)	Abnormal INV Output	Remove all charging and discharging devices, and the fault will be automatically cleared.
Overload 15 Error — Overload Icon (steady on) Fault Code (steady on)	Inverter discharge overload	Remove all charging and discharging equipment, the fault will be automatically cleared, and check whether the load power exceeds the equipment specifications.
Overload 16 Error — Overload Icon (steady on) Fault Code (steady on)	Charging overload	Remove all charging and discharging equipment, and the fault will be automatically cleared. If there is a connected load, check whether the load power exceeds the equipment specifications.
17 Error — Fault Code (steady on)	Hardware overcurrent brake protection	
Over 20 Error — Over Temp Icon (steady on) Fault Code (steady on)	MOS OTP(Over Temperature Protection) Fault	Remove all charging and discharging equipment, keep away from high-temperature sources, wait for the product temperature to return to normal, and the fault will be automatically cleared.
21 Error — Fault Code (steady on)	Fan power supply failure	Check if the fan circuit is normal, please contact the after-sales service for handling.
23 Error — Fault Code (steady on)	Charging Soft Start Fault	Remove all charging and discharging devices, and the fault will be automatically cleared.
24 Error — Fault Code (steady on)	MOS UTP (under temperature protection) fault	Remove all charging and discharging equipment, keep away from low-temperature sources, wait for the product temperature to return to normal, and the fault will be automatically cleared.
27 Error — Fault Code (steady on)	DC Hardware Over-current Protection	Remove the DC charging equipment, the fault will be automatically cleared, and check whether the DC input meets the specifications.
28 Error — Fault Code (steady on)	DC Input Software Over-current Protection	
30 Error — Fault Code (steady on)	Car output/XT60 Output Over-current Protection	The DC output turns off automatically, and the fault will be cleared after a period of time. Check whether the load power exceeds the equipment specifications.
31 Error — Fault Code (steady on)	PV Output Over-voltage Protection	Remove the PV input, the fault will be automatically cleared, and check whether the PV input voltage meets the equipment specifications.
32 Error — Fault Code (steady on)	DC Input Over-voltage Protection	Remove the PV input, the fault will be automatically cleared, and check whether the PV input voltage meets the equipment specifications or check if the fuse for the DC output is disconnected.
Over 35 Error — Over Temp Icon (steady on) Fault Code (steady on)	DC Input Over-temperature Protection	Remove all charging and discharging equipment, keep away from high-temperature sources, wait for the product temperature to return to normal, and the fault will be automatically cleared.

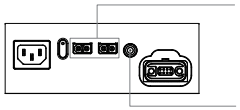
Error Icon Display	Fault Type	Solution
Over 37 Error Over Temp Icon (steady on) Fault Code (steady on)	Car Charger Output OTP(Over-Temparature Protection)	The DC output turns off automatically, remove all charging and discharging equipment, keep away from high-temperature sources, wait for the product temperature to return to normal, and the fault will be automatically cleared.
38 Error Fault Code (steady on)	Communication Error	Restart the machine or change the operating environment. If the fault is not resolved, contact after-sales service for handling.
40 Error Fault Code (steady on)	TypeC3/TypeC4 Over Temperature Protection	Remove the devices connected to Type C3 and C4, keep power station away from heat sources. The fault will be automatically cleared when the temperature returns to normal.
43 Error Fault Code (steady on)	Battery Voltage Too Low / Battery Damaged	Contact after-sales service.
44 Error Fault Code (steady on)	Abnormal DC input of the Expansion battery	Disconnecting the DC charging of the 614Wh Expansion battery, the fault will be cleared automatically after a certain period of time.
45 Error Fault Code (steady on)	Overheating of the DC output of the Expansion battery	Turn off the PD output of 614Wh Expansion battery. Once the temperature returns to normal, the fault will be cleared.
46 Error Fault Code (steady on)	MOS failure in the main circuit of the BMS	Power on and off the device to clear fault. If not recovered, contact after-sales service.
47 Error Fault Code (steady on)	Communication Error of BMS AFE	
48 Error Fault Code (steady on)	Abnormal BMS EEPROM	
49 Error Fault Code (steady on)	Abnormal BMS voltage sensor	
50 Error Fault Code (steady on)	BMS current sensor zero-offset fault	
51 Error Fault Code (steady on)	Abnormal BMS Main Circuit	
52 Error Fault Code (steady on)	BMS pre-charge timeout	
53 Error Fault Code (steady on)	Abnormal BMS current sensor	

Error Icon Display	Fault Type	Solution
54 Error Fault Code (steady on)	BMS battery fault (dead cell)	Power on and off the device to clear fault. If not recovered, contact after-sales service.
55 Error Fault Code (steady on)	BMS–inverter communication abnormal	
56 Error Fault Code (steady on)	BMS internal CAN bus abnormal	
57 Error Fault Code (steady on)	BMS RS485 bus abnormal	
58 Error Fault Code (steady on)	BMS parallel address recognition abnormal	
59 Error Fault Code (steady on)	BMS terminal fuse main circuit abnormal	
60 Error Fault Code (steady on)	Auxiliary Power Fault	Restarting the machine, if the fault is not resolved, contact the after-sales service for handling.

Important: If a warning appears during product use, and the warning icon remains after restarting the device, please stop using the product immediately. Do not attempt to charge or discharge it.

If the issue persists and the above steps do not resolve the problem, please contact customer service for further assistance.

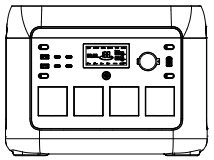
Note: When charging with PV panels, please connect the cable to the XT60 terminal(recommended) or DC7909 terminal. For car charger usage, connect the cable to the DC7909 terminal.



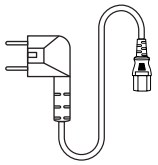
XT60: For Solar(PV) charging

DC7909: For Solar(PV) charging and Car charging

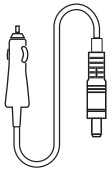
6. What’ s in the box



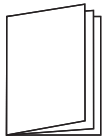
Power station



AC cable



Car charge cable



User manual

7. Maintenance and Care

• It’ s recommended to use or store the power station in an environment with ambient temperatures between 20°C and 30°C. Keep the unit away from water, heat sources, and metal objects to avoid damage.

• For storage periods exceeding 3 months, perform a cycle of charging and discharging every 3 months. First, discharge to 0%, then charge to 100%, and finally discharge to 48%-52% to maintain battery health.

• Do not store the power station in temperatures above 45°C or below -10°C, as this could damage the unit.

• If the battery capacity falls below 1%, charge the unit to at least 60%. Storing the product with low power for extended periods may cause irreversible damage to the cells, reducing the overall lifespan.

• If the power station has been idle for too long with insufficient battery, it will enter a "deep sleep" mode. To reactivate it, simply charge the product.

• After charging or discharging, wait at least 30 minutes before using the power station to ensure optimal performance and safety.

8. Disclaimer

• The product is equipped with a built-in battery management system, which provides several protections including overcharge, overdischarge, overcurrent, short circuit, high and low temperature, and abnormal communication. During use, these protections may activate and cause an interruption in output. The company is not responsible for any indirect losses caused by accidental power failures, including those affecting medical equipment or servers. Additionally, any damage resulting from improper use, tampering, or human error is not the responsibility of the company.

• Before using the power station, please thoroughly read this user manual to ensure proper understanding and safe usage. After reviewing the manual, please store it in a safe place for future reference. Improper operation can lead to serious injury, product damage, or property loss. By using the power station, you acknowledge and accept all terms and conditions outlined in this manual. Users are fully responsible for their actions and any consequences resulting from non-compliance.

• In accordance with applicable laws and regulations, the company reserves the right to make the final interpretation of this document and all related materials for this product. The content may be updated, revised, or discontinued without prior notice. Please visit the official website for the most up-to-date product information.

FCC Statement

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.

(2)This device must accept any interference received, including interference that may cause undesired operation.

2. 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 frequence 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 equipmemt 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 autlet on a circuit different from that to which the receiver is connected.

• Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure requirement, This equipment should be installed and operated with a minumum distance of 20 cm between the radiator and your body.

ISED Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada’ s licence-exempt RSS(s). Operation is subject to the following two conditions:

This device may not cause interference.

This device must accept any interference, including interference that may cause undesired operation of the device.

This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables auxappareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

(1)l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter toutbrouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre lefonctionnement. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.