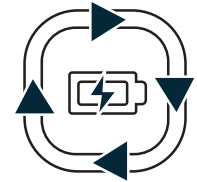
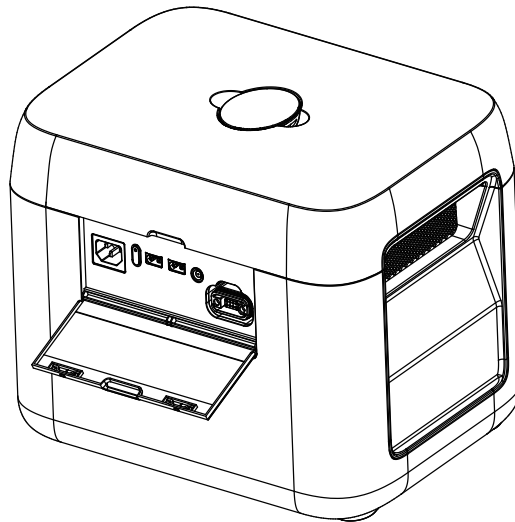




Meaningful Innovation.

INSTRUCTION MANUAL

PORTABLE POWER STATION



3000
LIFE CYCLE

02 YEAR
WARRANTY*



Smart Life
App

MODEL	VT-10009
SKU	12754



Expansion
Port

INTRODUCTION

Thank you for selecting and buying V-TAC Product. V-TAC will serve you the best. Please read these instructions carefully & keep this user manual handy for future reference. If you have any another query, please contact our dealer or local vendor from whom you have purchased the product. They are trained and ready to serve you at the best.



Caution, risk of electric shock.



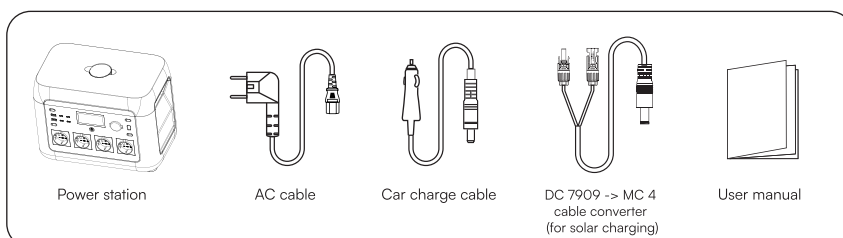
This marking indicates that this product should not be disposed of with other household wastes.



MULTI-LANGUAGE MANUAL QR CODE

Please scan the QR code to access the manual in multiple languages.

PACKAGE CONTAINS



Points de collecte sur www.quefairedemesdechets.fr

IN CASE OF ANY QUERY/ISSUE WITH THE PRODUCT, PLEASE REACH OUT TO US AT: SUPPORT@V-TAC.EU
FOR MORE PRODUCTS RANGE, INQUIRY PLEASE CONTACT OUR DISTRIBUTOR OR NEAREST DEALERS.
V-TAC EUROPE LTD. BULGARIA, PLOVDIV 4000, BUL.L.KARAVELOW 9B

TECHNICAL DATA

NET WEIGHT	≈11.6kg (≈25.6lbs)
DIMENSION	350*224*260mm (13.8*8.8*10.2in)
BATTERY CAPACITY	1024Wh, 51.2V==, 20Ah
WI-FI	Supported

OUTPUT SPECIFICATIONS

UK/EU/FR/AU/ZA

AC SOCKET X4 (INVERTER MODE)	Pure sine-wave, total 1800W (Peak 3000W), 220-240V~, 50Hz/60Hz, 9A
AC SOCKET (BYPASS MODE)	220-240V~, 50Hz/60Hz, 1800W Max., 9A Max.

US

AC SOCKET X4 (INVERTER MODE)	Pure sine-wave, total 1800W (Peak 3000W), 220-240V~, 50Hz/60Hz, 18A
AC SOCKET (BYPASS MODE)	100-120V~, 50Hz/60Hz, 1440W Max., 12A Max.

USB-A1+A2	5V==2.4A, 12W MAX.
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.
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 SPECIFICATIONS

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 & CAR CHARGING

- PV CHARGE XT60 INPUT 800W Max., 11-60V == 20A
- PV CHARGE DC7909 INPUT 400W Max., 11-60V == 10A
- CAR CHARGING INPUT 12V/24V battery supported, 8A by default

INPUT CHARGING

- AC CHRGING 1500W MAX.
- PV CHARGING POWER 800W MAX.
- CAR CHARGING POWER 192W MAX.
- AC+PV CHARGING POWER 1500W MAX.

Noise: Fast charging: ≤57dB Slow charging: ≤30dB

BATTERY SPECIFICATIONS

- CELL TYPE Lithium iron phosphate battery (LiFePO₄)
- LIFE CYCLE 3000 cycles
- PROTECTION TYPE Over temperature protection, low temperature protection, over discharge protection, over charge protection, over load protection, short circuit protection, over current protection

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

OPERATING TEMPERATUR

- 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)]

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

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 2560Wh

- POWER INPUT/OUTPUT 40-57.6V === 50A charging (Max.), 70A discharge (Max.)
- CAPACITY 2560Wh, support 6 expansion battery packs at most, Separate selling.

NOTE

- This device requires Wi-Fi Frequency 2.4GHz
- Operating frequency (maximum transmitted power) 2.412-2.484Ghz



WARNING SYMBOLS USED

This is the safety alert symbol. This symbol alerts you to potential hazards that could result in property damage and/or serious bodily harm or death.

SAFETY GUIDELINES

INSTRUCTIONS PERTAINING TO RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

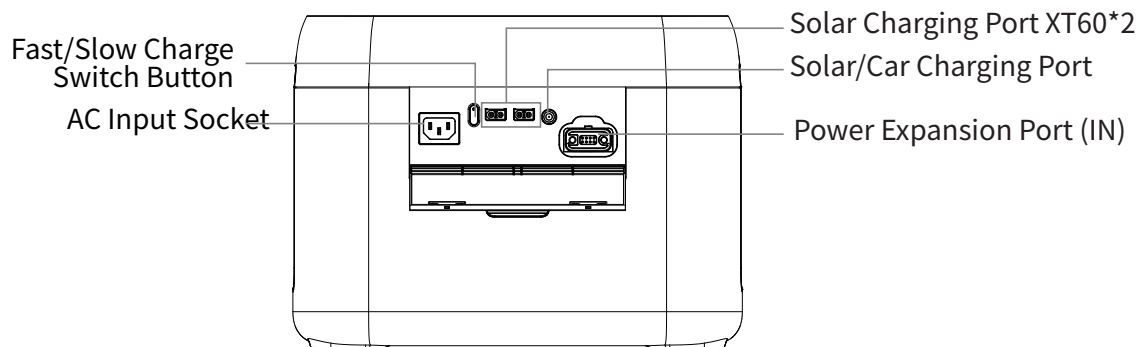
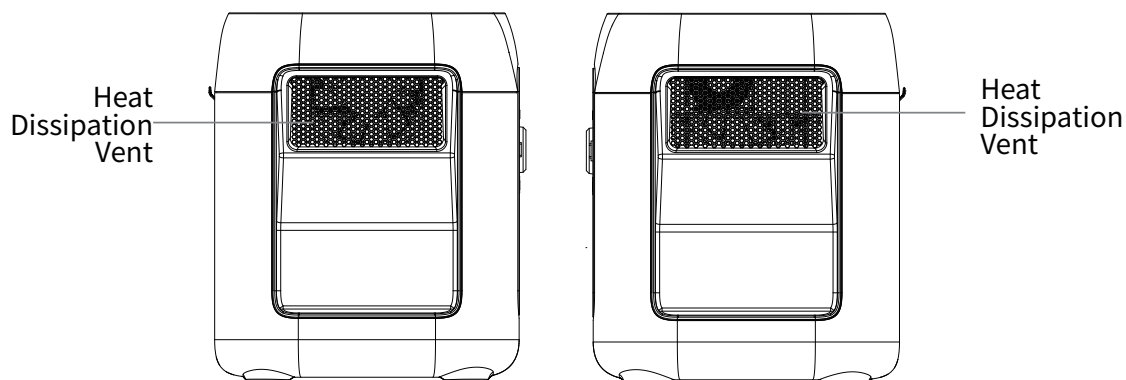
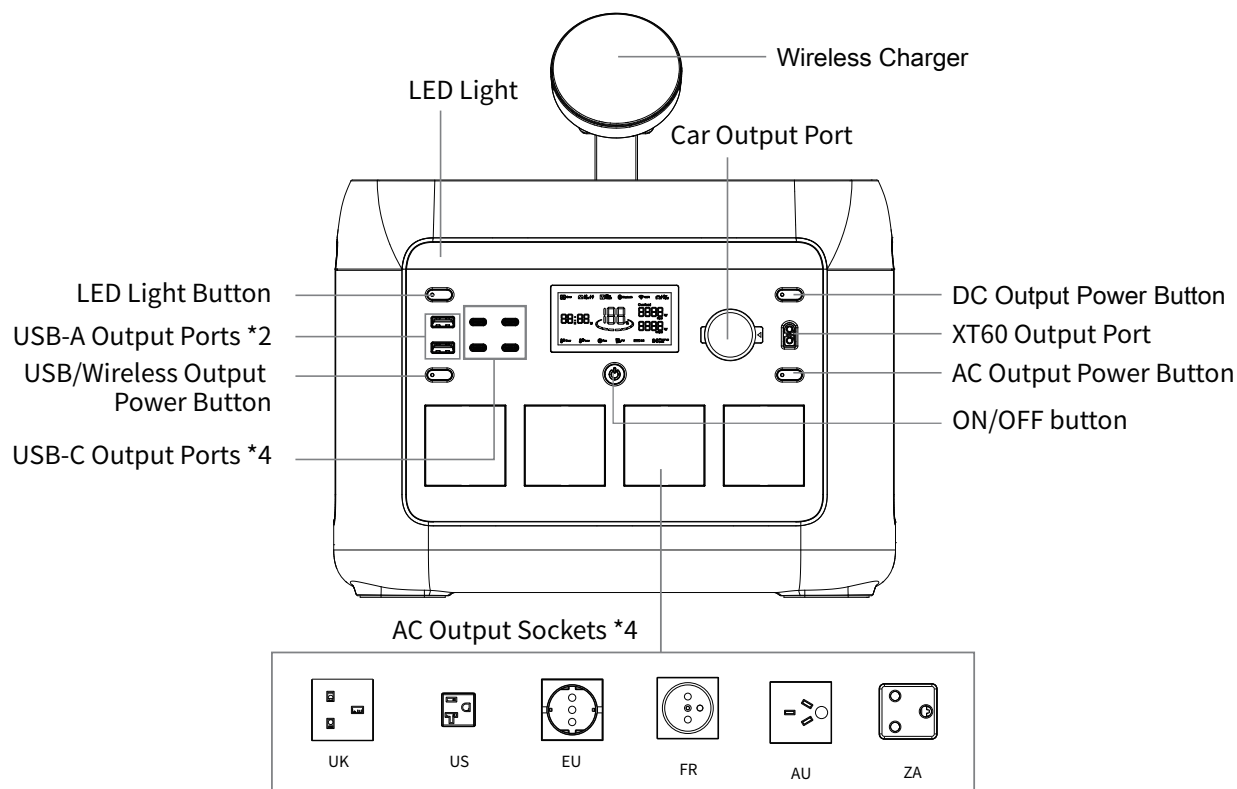
1. Read all the instructions before using the product.
 2. Do not place this product near heat sources while it is operating, such as open flames or heaters.
 3. To reduce the risk of injury, close supervision is necessary when the product is used near children.
 4. Do not put fingers or hands into the product.
 5. 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.
 6. Do not use this product in environments with strong static electricity or strong magnetic fields.
 7. Do not disassemble the power pack; take it to a qualified service person when service or repair is required. Incorrect reassembly may result in a risk of fire or electric shock.
 8. To reduce the risk of electric shock, unplug the power pack from the outlet before attempting any instructed servicing.
 9. Do not short-circuit the product using wires or other metal objects.
 10. Do not step on, sit on, or climb on the product.
 11. Use of an attachment not recommended or sold by the power pack manufacturer may result in a risk of fire, electric shock, or injury to persons. For replacements, please refer to official sales channels.
 12. To reduce risk of damage to the electric plug and cord, pull the plug rather than the cord when disconnecting the power pack.
 13. Do not use a battery pack or appliance that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion, or risk of injury.
 14. Do not operate the power pack with a damaged cord or plug, or a damaged output cable.
-

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15. 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.
 16. Do not expose a power pack to fire or excessive temperature. Exposure to fire or temperatures above 130°C may cause explosion.
 17. Do not place heavy objects on top of this product.
 18. Do not forcibly block the fan while the product is in use. Avoid using the product in poorly ventilated or dusty environments. When charging the internal battery, work in a well-ventilated area and do not restrict ventilation in any way.
 19. 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.
 20. 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 CO₂ extinguisher.
 21. If there is dirt on the product's ports, wipe it off with a dry cloth.
 22. 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.
 23. Keep the product out of reach of children and pets.
 24. Store the product in a dry, well-ventilated place.
 25. 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.
 26. 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) machines. Home medical devices should not 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.
 27. Power supplies will inevitably generate electromagnetic fields when in use, which might affect implantable medical devices or the normal operation of personal medical devices such as pacemakers, cochlear implants, hearing aids, defibrillators, etc. If any of these medical devices are used, please consult the manufacturer about restrictions to ensure the power station is operated at a safe distance from implanted medical devices.
 28. 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.
 29. Do not place any items on top of the product while moving it by pushing or pulling.
 30. Warning: Operating this device in a residential environment may cause radio interference.
 31. Have servicing performed by a qualified repair person using only identical replacement parts. This will ensure that the safety of the product is maintained.
 32. Attach output cables to a battery and chassis as indicated below. Never allow the output clamps to touch one another.
 33. Do not place the power pack on the floor or at a height less than 457 mm (18 inches) above the floor during use in a repair facility.
 34. The power pack may only be used indoors and outdoors as allowed under any conditions.
 35. Do not modify or attempt to repair the power pack or its accessories. Contact technicians for use and care.

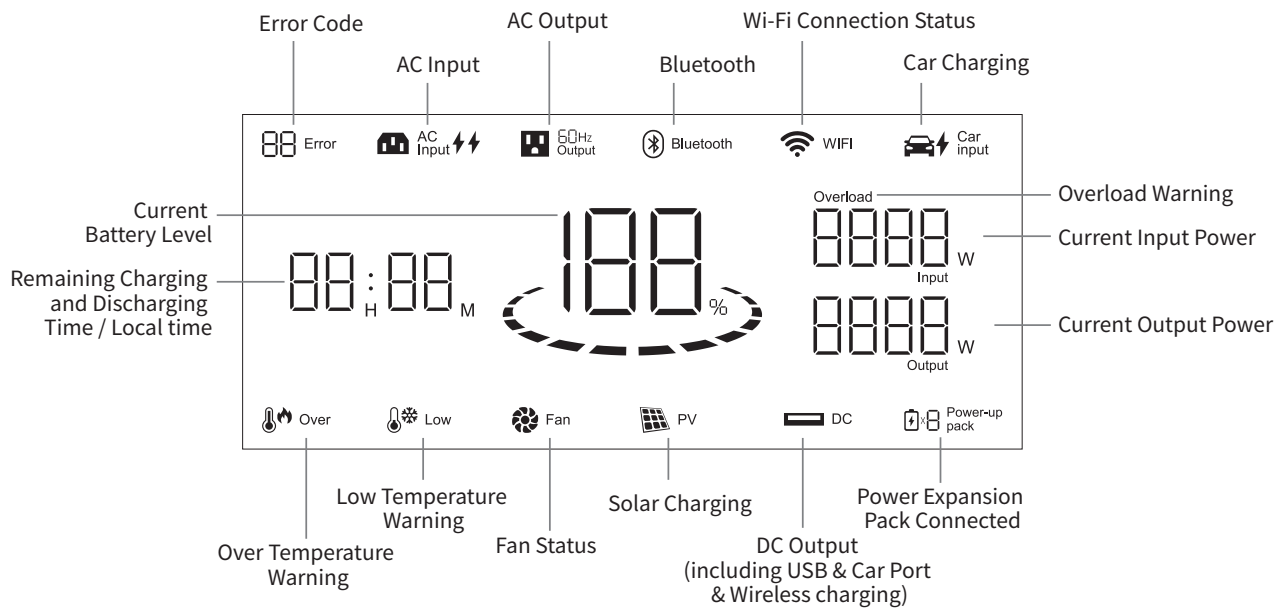
GROUNDING INSTRUCTIONS

1. This product must be properly grounded. In the event of a malfunction or electrical failure, grounding provides a safe path of least resistance for electric current, thereby reducing the risk of electric shock.
 2. The product is equipped with a power cord that includes an equipment-grounding conductor and a grounding plug. The plug must be connected only to a properly installed and grounded electrical outlet in accordance with all applicable local codes and regulations.
 3. Warning: Improper connection of the equipment-grounding conductor may result in a risk of electric shock. If you are uncertain whether the product is properly grounded, consult a qualified electrician or service technician.
 4. Do not modify the plug provided with the product. If the plug does not fit the available outlet, have a suitable outlet installed by a qualified electrician.
-

PRODUCT OVERVIEW



LCD SCREEN



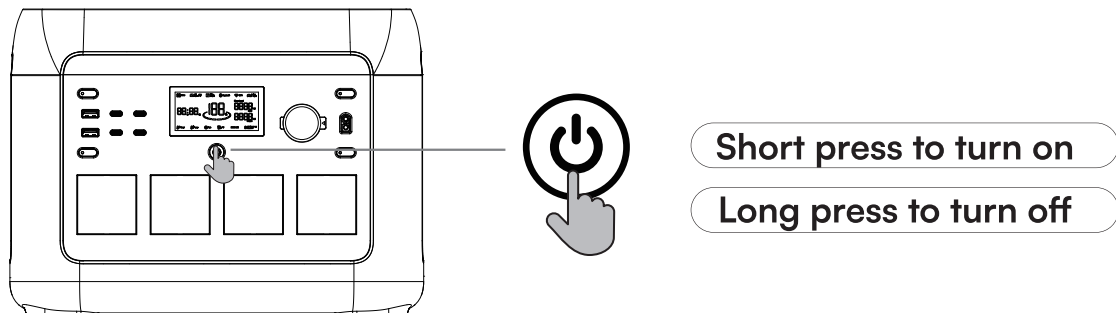
Time display: The time display on the LCD screen contains two types of information: the remaining charging/discharging time of the current device(generally showing 7 seconds), and the local time of the region where the device is located(generally showing 3 seconds).

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.

OPERATING INSTRUCTIONS



Powering the Device On and Off

- To power on the device, press the main power switch. The display screen and main power indicator will illuminate.
- If the device remains inactive for 5 minutes, the LCD display will automatically turn off to conserve energy. The display will reactivate automatically when the device is connected to or disconnected from the grid, PV input, or car charger, or when any key is operated.
- The LCD display can also be manually turned on or off by briefly pressing the main power switch.
- To completely power off the device, press and hold the main power switch.

Standby Mode

- During normal operation (battery level above 5%), the default standby duration is 2 hours.
- If the AC output switch is turned off and no charging or discharging activity occurs within 2 hours, the device will automatically shut down.
- The standby duration can be customized through the mobile application.
- When the battery level reaches 5% or below, the device enters Low Power Mode. In this mode, the standby duration is automatically adjusted according to the remaining battery capacity. If no charging or discharging activity is detected, the device will shut down automatically.

Never-Power-Off Mode

- In normal operating mode, press and hold the LED light button to enable Never-Power-Off Mode. The corresponding icon on the display will flash to indicate activation.
- To return to automatic shutdown mode, press and hold the LED light button again. The icon will remain steadily illuminated to confirm the setting change.

Note

The automatic shutdown function is designed to protect the battery from excessive discharge. Disabling this feature may reduce battery lifespan. Use this mode with caution.

AC OUTPUT INSTRUCTIONS

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.

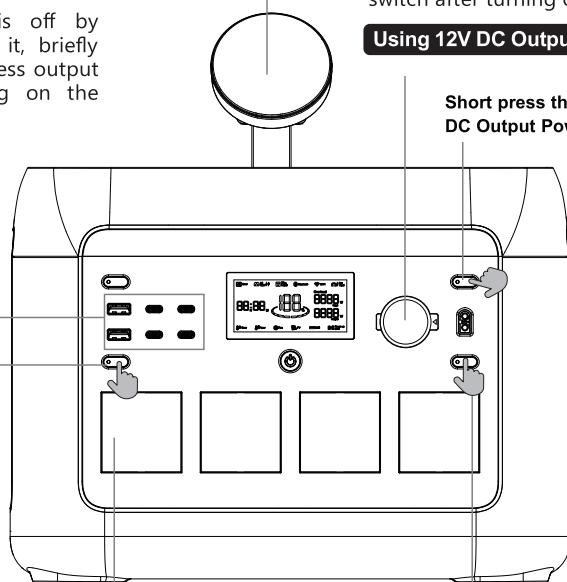
Using USB Output

Short press the USB/
Wireless Output
Power Button

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

Short press the 12V
DC Output Power Button



Short press the AC output power button

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.

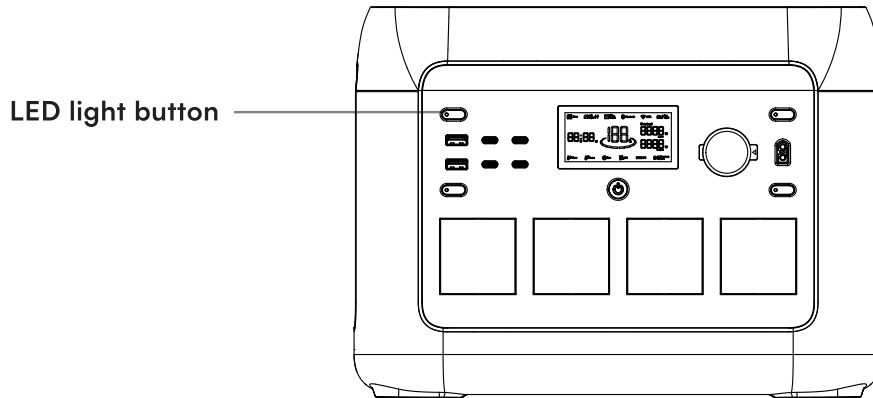
Using AC Output



- 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.
-

LED LIGHT USAGE

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



AC CHARGING

By default, the product operates in Fast Charging Mode when powered on.

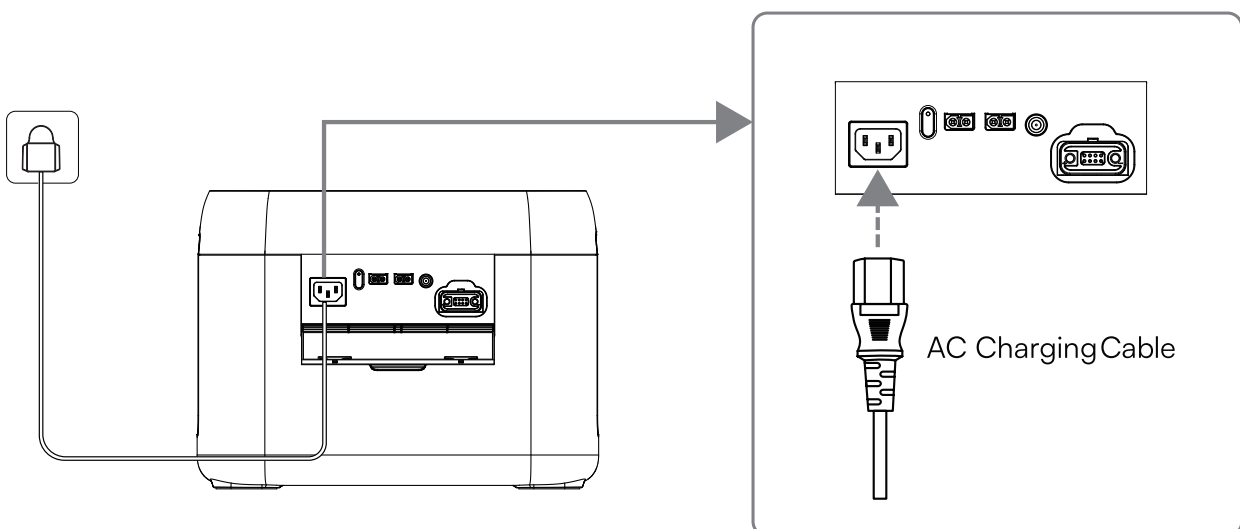
During AC fast charging, the lightning icon ⚡ on the LCD display remains continuously illuminated to indicate active charging status.

When the Wi-Fi function is unavailable, you can switch between Fast Charging Mode and Slow Charging Mode by briefly pressing the AC Fast/Slow Charging button.

- **Fast Charging Mode:**
Maximum AC charging power: 1500W
Approximate full charging time: 1.17 hours
- **Slow Charging Mode:**
Maximum AC charging power: 300W
Approximate full charging time: 4 hours

*AC Fast Charging Mode: charging time deviation $\pm 0.1h$.

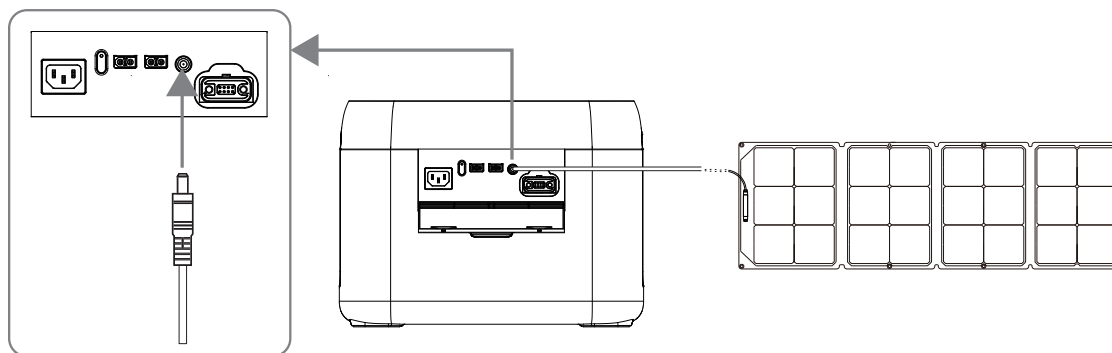
*Conditions: New battery, fully discharged at 1C rate under room temperature, then rested for 2 hours at room temperature before performing AC fast charging at room temperature.



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.

Note: The power station should be charged at a temperature between 0°C and 45°C (32°F - 113°F). The optimal operating temperature range is 20°C to 30°C (68°F - 86°F).

SOLAR/PV CHARGING



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

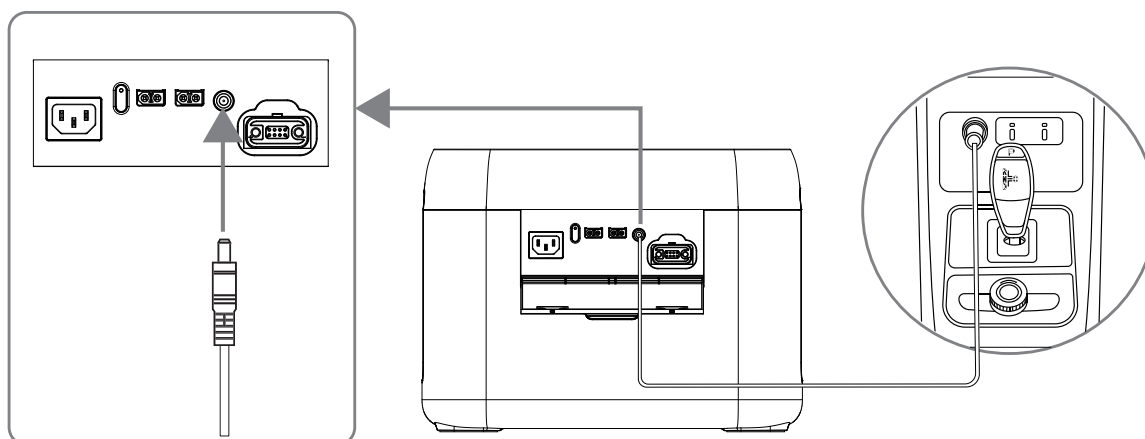
SOLAR CHARGING CABLE (DC7909)

- When using the company's solar panels to charge this product, please follow the connection procedures provided in the user manual.
- Before connecting a solar panel, verify that the panel's output voltage is within the supported input range of the product to prevent potential damage.
- This product is equipped with a DC7909 input connector. If an MC4-to-DC7909 adapter cable is required, it must be purchased separately.
- The product supports solar charging through both XT60 and DC7909 input terminals. If an XT60-to-MC4 adapter cable is required, it must be purchased separately.

Note

Simultaneous use of the XT60 port and the DC7909 port is not supported. As a result, solar charging and car charging cannot be performed at the same time.

CAR CHARGING



CAR CHARGING CABLE (DC7909)

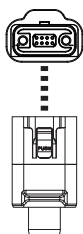
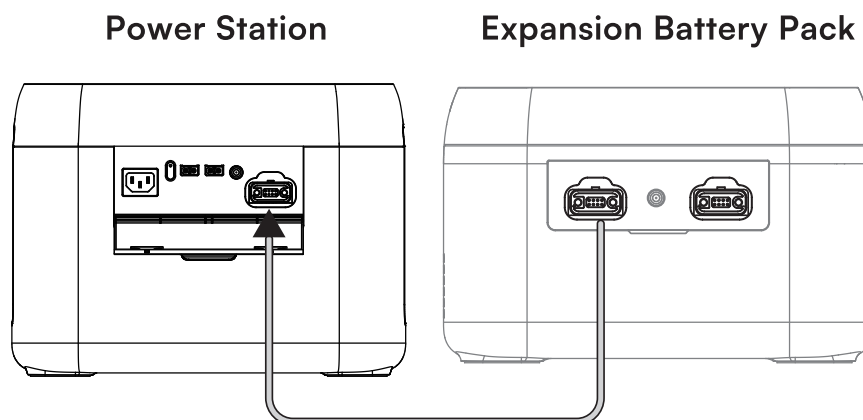
- The power station can be charged through the vehicle's cigarette lighter socket. To avoid draining the vehicle battery and to prevent possible engine start failure, charging should only be initiated after the vehicle engine is running.
- Ensure that the connection between the car charging port (DC7909) and the cigarette lighter adapter is secure before operation.
- The manufacturer assumes no responsibility for any damage or loss resulting from improper use or incorrect operation.

INSTALLATION INSTRUCTIONS

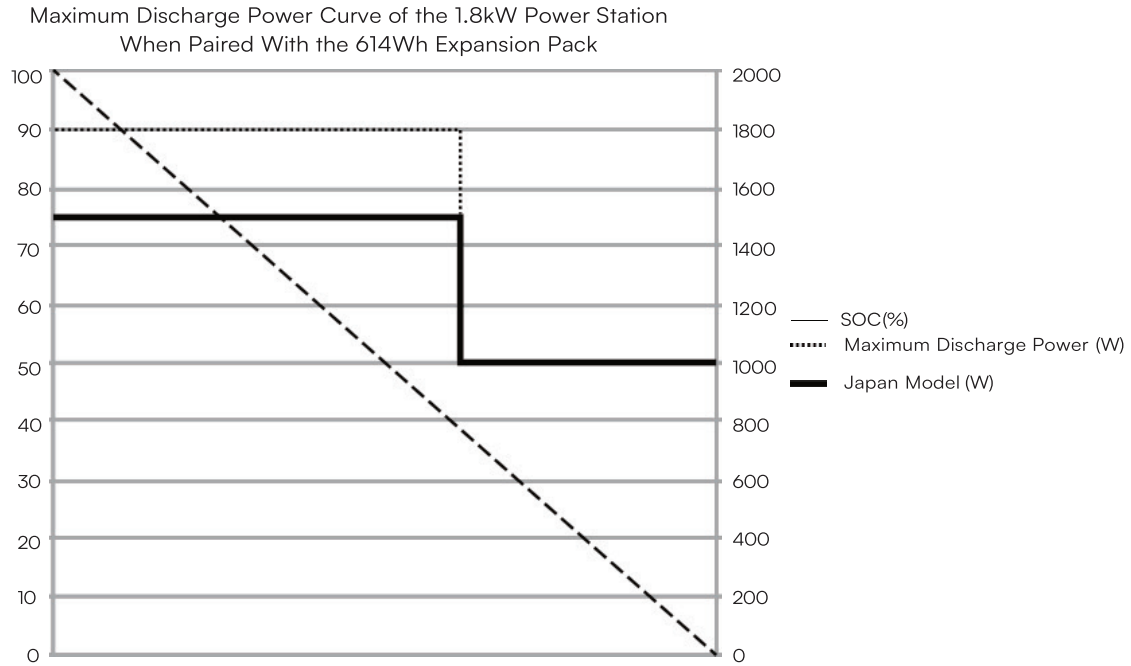
USE OF EXPANSION BATTERY PACK

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

- Before establishing the parallel connection, ensure that both the portable power station and the expansion battery pack are powered off.
- Connect the parallel connection cable to the Expansion Port of the portable power station and to the Power Input/Output Port of the expansion battery pack.
- After completing the connection, press the power button  on the portable power station to activate both devices. The displays will indicate the current battery levels, and the portable power station will display the number of connected units, confirming that the parallel connection has been established successfully.
- Once the connection is complete, use the corresponding ports on the portable power station for charging or discharging operations.



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.



Note

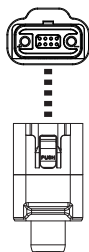
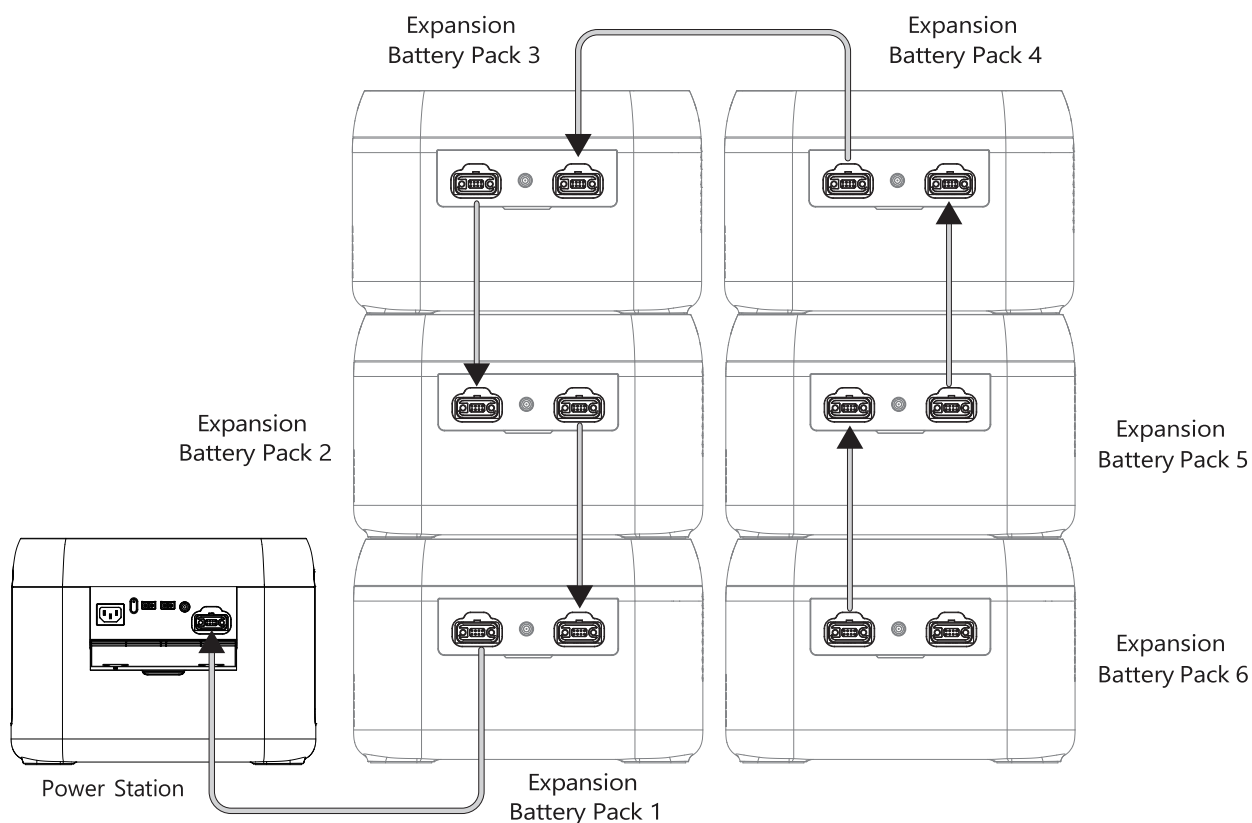
When this product is used in conjunction with the 614Wh Expansion Pack, the system's maximum discharge power will vary depending on the State of Charge (SOC), as outlined below:

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)

PARALLEL CONNECTION OF ONE PORTABLE POWER STATION WITH MULTIPLE 614WH EXPANSION BATTERY PACKS

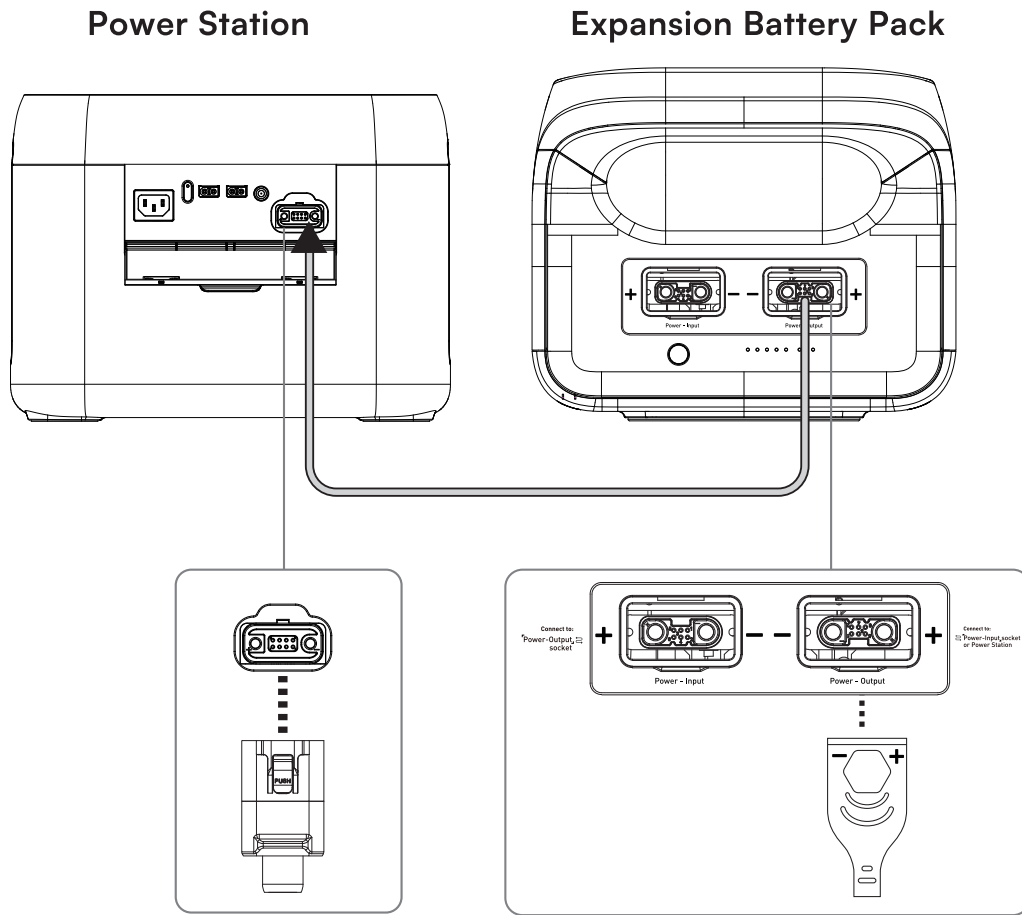
1. Before initiating the parallel connection, ensure that the portable power station and all expansion battery packs are powered off.
2. Connect the parallel cable to the Expansion Port of the portable power station and to the Power Input/Output Port of Expansion Battery Pack 1. Then, connect Expansion Battery Pack 1 to Expansion Battery Pack 2 via their respective Power Input/Output ports, followed by connecting Expansion Battery Pack 2 to Expansion Battery Pack 3, and so on. A maximum of six expansion battery packs can be connected in parallel.
3. After completing all connections, press the power button (⏻) on the portable power station to activate the system. The displays will show the current battery levels, and the portable power station will indicate the number of connected units, confirming that the parallel connection has been successfully established.
4. Once the parallel connection is established, use the appropriate ports on the portable power station for charging or discharging operations.



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

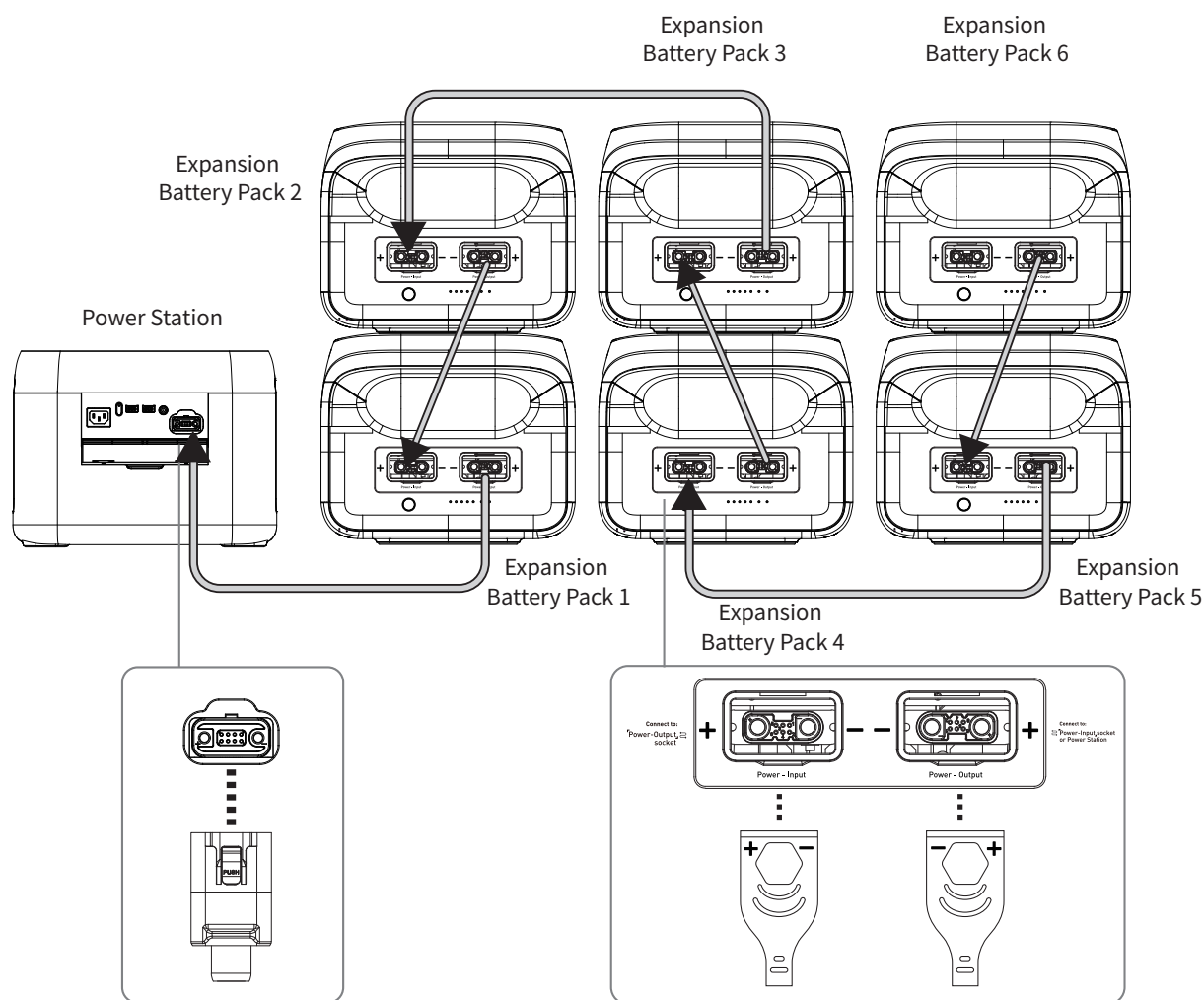
1. Ensure that both the portable power station and the expansion battery pack are powered off before initiating the parallel connection.
2. Connect the parallel connection cable to the Expansion Port of the portable power station and to the Power Input/Output Port of the expansion battery pack.
3. After completing the connection, press the power button (⏻) on the portable power station to activate both devices. The displays will show the current battery levels, and the portable power station will indicate the number of connected units, confirming that the parallel connection has been successfully established.
4. Once connected, use the appropriate ports on the portable power station for charging or discharging operations.



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. Ensure that the portable power station and all expansion battery packs are powered off before initiating the parallel connection.
 2. Connect the parallel cable to the Expansion Port of the portable power station and to the Power Input/Output Port of Expansion Battery Pack 1. Then connect Expansion Battery Pack 1 to Expansion Battery Pack 2 via their respective Power Input/Output ports, followed by connecting Expansion Battery Pack 2 to Expansion Battery Pack 3, and so on. A maximum of six expansion battery packs can be connected in parallel.
 3. After all connections are completed, press the power button (⏻) on the portable power station to activate the system. The displays will show the current battery levels, and the portable power station will indicate the number of connected units, confirming that the parallel setup has been successfully established.
 4. Once the parallel connection is established, use the appropriate ports on the portable power station for charging or discharging operations.
-



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

P-BOOST FUNCTION

- The P-Boost function allows the use of electrical appliances whose power requirements exceed the product's rated output power without overloading the battery system.
- In P-Boost Mode, the JP version of this product supports a maximum load of 2700W, while the EU/UK/US/AU/ZA versions support a maximum load of 3000W. When high-power appliances are connected, the inverter intelligently regulates the output to maintain a stable and continuous power supply, ensuring reliable operation of connected devices.

Important Usage Notes for P-Boost Function

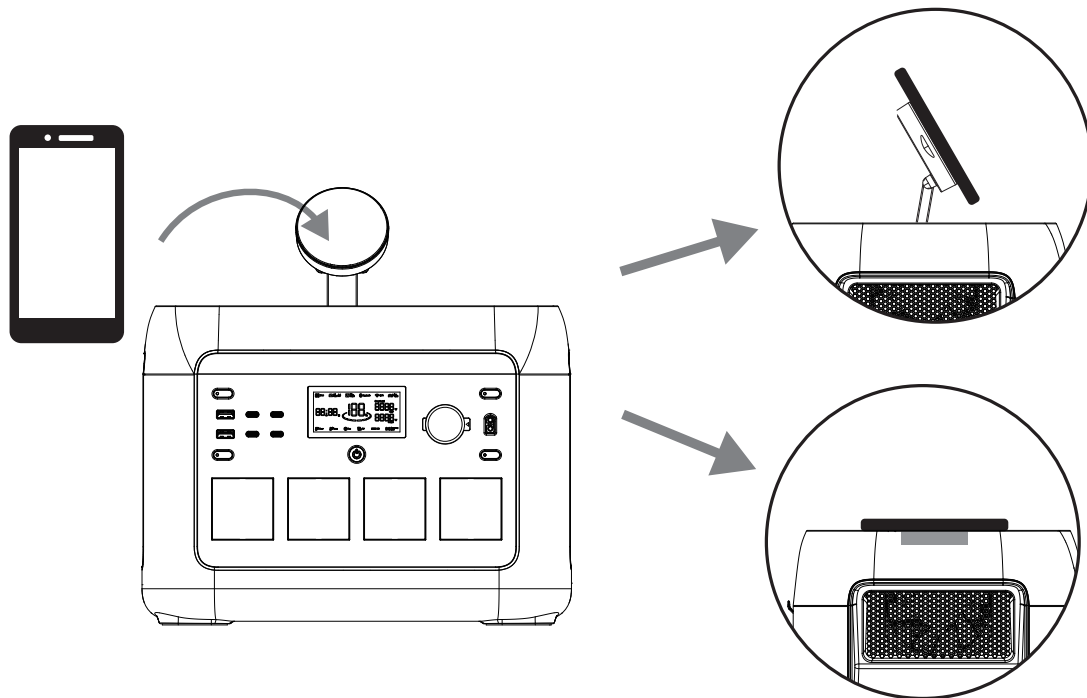
1. The P-Boost function is disabled by default.
2. The P-Boost function is not available under the following conditions:
 - (1) When AC output is enabled during charging (bypass mode is active).
 - (2) When the P-Boost function has been manually disabled in the settings.
3. When connecting high-power electrical appliances, only one appliance should be connected at a time to prevent voltage fluctuations caused by multiple devices operating simultaneously, which may affect device performance.
4. The P-Boost function is primarily intended for resistive loads and is not compatible with all types of electrical appliances. Devices equipped with voltage protection systems (such as precision instruments) may not be suitable for use with this function. Compatibility should be confirmed through actual testing prior to use.

WIRELESS CHARGING (OPTIONAL)

Place your phone securely on the wireless charging stand to charge devices that support the Qi2.2 standard.

Note: Ensure that the USB/Wireless output is enabled before using the wireless charging function.

The phone may be placed flat on the charging stand or positioned at an appropriate angle to initiate charging.



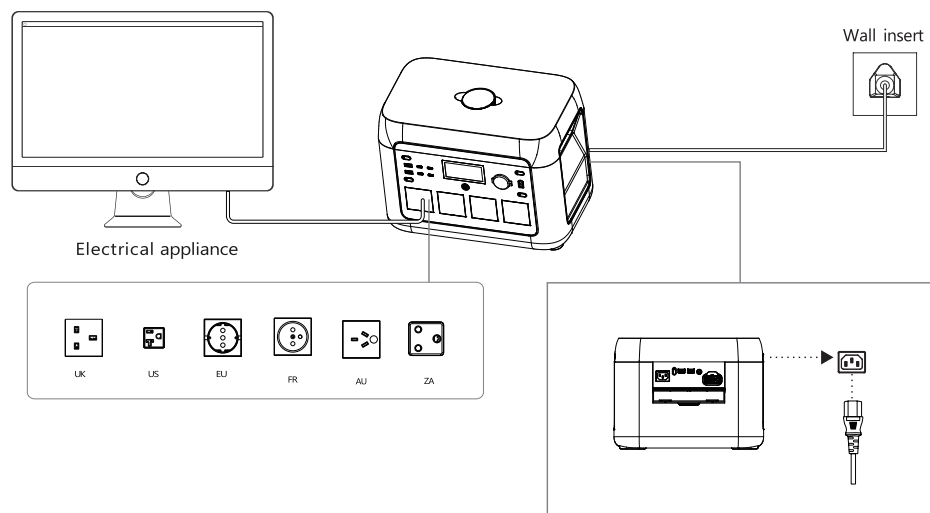
EPS FUNCTION (EMERGENCY POWER SUPPLY)

This product supports an EPS (Emergency Power Supply) function. To use this feature, connect the AC input port of the product to a wall outlet using the AC charging cable.

In Bypass Mode, AC power is supplied directly from the utility grid rather than the battery. In the event of a grid power interruption, the product will automatically switch to Inverter Mode within approximately 10 ms, supplying AC power from the battery. Please note that this function does not support 0 ms switching.

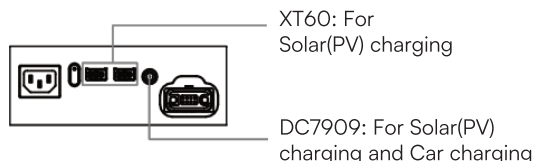
Do not use this product with equipment that requires uninterrupted power supply, such as data servers or workstations. If used with such devices, compatibility should be verified through multiple tests prior to operation. It is recommended to connect only one device at a time to avoid triggering overload protection.

The manufacturer assumes no responsibility for any malfunction, data loss, or damage resulting from failure to comply with the above instructions.



If there is a warning occurs during the use of this product, and the warning icon still does not disappear after restarting the device, please stop using it immediately (do not try to charge or discharge).
If none of the above information can solve problem you encounter, please contact the customer service for consultation.

Note: When charging via PV panels, connect the cable to the XT60 terminal (recommended) or the DC7909 terminal. When using a car charger, connect the cable to the DC7909 terminal.



APP INSTRUCTIONS

You can control and view information and data about this product via the App.

To download the software:

- Search for [Smart Life] in the Google App Store or Apple App Store
- Download, register, and open the app
- Or scan the QR code provided to download directly

For detailed usage of the app, please refer to the APP Operation Guide.



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

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 Fault Code (steady on)	Battery OTP(over temperature protection) fault	Automatic shutdown, fault cleared after temperature recovery.
 Low 05 Error 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 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.

Error Icon Display	Fault Type	Solution
 Error Fault Code (steady on)	Abnormal INV Output	Remove all charging and discharging devices, and the fault will be automatically cleared.
Overload  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  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.
 Error Fault Code (steady on)	Hardware overcurrent brake protection	
 Over  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.
 Error Fault Code (steady on)	Fan power supply failure	Check if the fan circuit is normal, please contact the after-sales service for handling.
 Error Fault Code (steady on)	Charging Soft Start Fault	Remove all charging and discharging devices, and the fault will be automatically cleared.
 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.
 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.
 Error Fault Code (steady on)	DC Input Software Over-current Protection	
 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.
 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.
 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  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 Fault Code (steady on)	Car Charger Output OTP(Over-Temperature 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.
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.
61 Error Fault Code (steady on)	Overpower Fault During Parallel Operation	Please turn off or remove high-power loads to reduce the total load power to less than 1000W.
62 Error Fault Code (steady on)	BMS Communication Failure	If the issue persists after unplugging and plugging the device back in or changing the operating environment, please contact customer service for assistance.
63 Error Fault Code (steady on)	INV Communication Error	
64 Error Fault Code (steady on)	MPPT Communication Failure	

MAINTENANCE GUIDELINES

To ensure optimal performance and longevity of the power station, please adhere to the following maintenance recommendations:

- **Ambient Conditions**
Store and operate the device within an ambient temperature range of 20°C to 30°C. Keep it away from water, heat sources, and metallic objects.
- **Long-Term Storage Protocol**
Every three months, perform a full charge-discharge cycle:
 1. Discharge to 0%
 2. Charge to 100%
 3. Discharge to 48%—52% for storage
- **Temperature Limits**
Do not store the device in environments exceeding 45°C or below -10°C, as this may compromise safety and battery integrity.
- **Low Capacity Precaution**
If battery capacity falls below 1%, recharge to at least 60% before storage. Prolonged storage in a deeply discharged state may cause irreversible cell damage and reduce service life.
- **Deep Sleep Recovery**
If the device remains idle with insufficient charge for an extended period, it may enter deep sleep mode. In such cases, recharge the device to resume normal operation.
- **Post-Charge/Discharge Handling**
After charging or discharging, allow the device to rest for at least 30 minutes before use.

DISCLAIMER

This product is equipped with a built-in Battery Management System (BMS) that provides multiple layers of protection, including safeguards against overcharge, overdischarge, overcurrent, short circuit, high/low temperature, and abnormal communication. During operation, these protections may activate and temporarily interrupt output.

- The manufacturer is not liable for any indirect losses resulting from unexpected power interruptions, especially when the device is used to supply critical equipment such as medical devices or servers.
- Any damage or malfunction caused by unauthorized use, self-disassembly, or intentional misuse is outside the scope of the company's responsibility.

Before operating the power station, users must read and understand the user manual thoroughly. Retain the manual for future reference. Improper use may result in serious injury, equipment damage, or property loss. By using the product, users acknowledge and accept all terms and conditions outlined in the documentation and assume full responsibility for their actions and any resulting consequences.

The company reserves the final right of interpretation for this document and all related materials. Specifications and guidelines are subject to change, revision, or termination without prior notice. For the latest updates, please refer to the official website.

FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

Warning: Any changes or modifications not expressly approved by the party responsible for compliance may void the user's authority to operate this 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. If it is not installed and operated

in accordance with the instructions, it may cause harmful interference to radio communications. There is no guarantee, however, that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception—determined by turning the equipment off and on—the user is encouraged 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 the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for assistance.

This device has been evaluated to meet general RF exposure requirements. It must be installed and operated with a minimum distance of 20 cm between the radiator and the user's 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 aux appareils 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 tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.

IMPORTANT NOTES

- This product contains battery type "Secondary" (rechargeable).
- Electrical and electronic equipment that has become waste is known as old equipment/device. Old devices must not be disposed of with other household waste.
- Owners of old devices at the end of its service life must return the device by taking them to the collection points set up by public waste disposal authorities or distributors. This return does not entail any costs for you.
- Owners of old devices have an obligation to remove accessible batteries / rechargeable batteries as well as non-destructively removable lamps from the old device prior to return. This does not apply if old devices are being prepared for reuse with the participation of a public law firm.
- Battery removal warning: The battery contained in this product must be removed only by professional personnel only. The battery must never be removed by the end user, if not removed correctly it could damage the battery which could cause fire.
- Batteries removed from an old electronic device should be disposed of separately. This return of battery does not entail any costs for you and the user is obliged to return the battery.
- Please make sure that this product is not powered on when removing the battery. Fire hazard! Avoid short-circuiting the contacts of a detached battery. Do not incinerate the battery. Please handle the battery with Caution!
- If electrical appliances or batteries are disposed of in landfills or dumps, hazardous substances can leak into the groundwater and get into the food chain, damaging your health and well-being.



- The symbol of "Crossed rubbish bins "indicates that this product should not be disposed of with other household wastes and must be collected separately from unsorted municipal waste at the end of its service life.
- Please use the link below to view the online directory of the collection and return points:<https://www.ear-system.de/ear-verzeichnis/sammel-und-ruecknahmestellen>



V-TAC WEST EUROPE LTD. IN CASE OF ANY QUERY/ISSUE WITH THE PRODUCT, PLEASE REACH OUT TO US AT:
SUPPORT@V-TAC.EU FOR MORE PRODUCTS RANGE, INQUIRY PLEASE CONTACT OUR DISTRIBUTOR OR NEAREST DEALERS.
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