POWERSTATION 3600W

MODEL : EQP-PWRSTN-3600W

(HOST SKU: EQP-PWRSTN-3600W-HOST)
(BATTERY SKU: EQP-PWRSTN-3600W-BATTERY)
(BUGGY SKU: EQP-PWRSTN-3600W-BUGGY)

USER MANUAL



Volthium Energy inc. | T. 514.989.9586 | info@volthium.com | www.volthium.com

Thank you for purchasing our energy storage series products. Please read this manual carefully before use and keep it for reference. This manual helps you to operate the unit correctly, but it is not an introduction to the hardware and software configuration, for any product configuration please refer to the relevant contract or consult your dealer. The pictures in this manual are for reference only, thank you.

Please confirm first :
Before using it, please make sure that the contents of the package are complete.
In case there is something insufficient, please contact your dealer.

No.	Package contents	Qty
1	AC charging cable	x1
2	MC4 to XT60 cable	x1
3	Bag	x1
4	User Manual	x1
5	APP Operation Guide	x1
6	3600 host	x1

If the product is out of stock or damaged, please inform us of the product number, the above number (1-6) and the name of the product.

Disclaimer

Before using this product, please read this user manual carefully and use this product correctly according to the safety guidelines herein, especially the related precautions please be sure to comply with. Within the scope permitted by law, the operator will not be responsible for any damage ta the product, personal injury, property loss, etc., caused directly or indirectly by improper use. In compliance with relevant laws and regulations, the company enjoys the final interpretation of these instructions and other documents, and is subject to revision, update or termination without prior notice.

The company does not bear responsibility for any situation or for any resulting consequences.

- Equipment damage caused by earthquake, flood, volcanic explosion, mudslides, lightning, fires, war, typhoon, extreme weather, force majeure is damaged;
- It is not running in the conditions used in this manual;
- The installation and use environ ment does not meet international, national or regional stan-dards;
- Persons who do not qualify for the operation and maintenance of the equipment;
- No operation description and safetywarning operation in the product and document;
- Disassembling,replacing products or modifying software code without authorization;
- You or your entrusted third-party transportation caused damage;
- Storage conditions are not damaged caused by the requirements of the document;
- Your own materials and tools do not meet local laws and regulations and relevant standards;
- You or third parties are negligent, intentional, major negligence, improper operation, or damage caused by non-company reasons.

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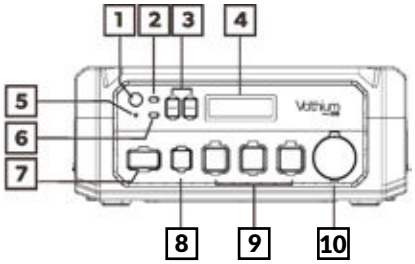
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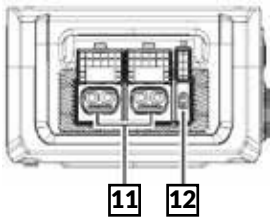
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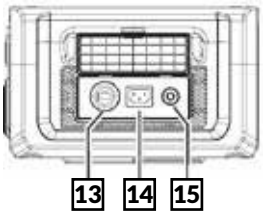
1. Package contents

AC charging cable x1	MC4 to XT60 cable x1	Bag x1	User Manual x1	APP Operation Guide x1	3600 host x1
					

2. Product description







No.	Inspection items	No.	Inspection items
1	Power	9	AC out (Max 20A)
2	DC Switch	10	TT30 (Max 30A)
3	USB Port	11	Expansion battery port
4	Display screen	12	Solar input Port
5	"IOT" switch	13	RJ45 (Communication : RS485/-CAN)
6	AC switch	14	AC charge port
7	Anderson port	15	Overcurrent reset button (20A)
8	Car charger port		

Note: To ensure charging safety, charging is if the input current exceeds the overcurrent protectian value, this product will trigger the charging overcurrent protection function, the circuit breaker button will be popped up, and after the overcurrent is eliminated, the charging can be resumed by pressing the button again.

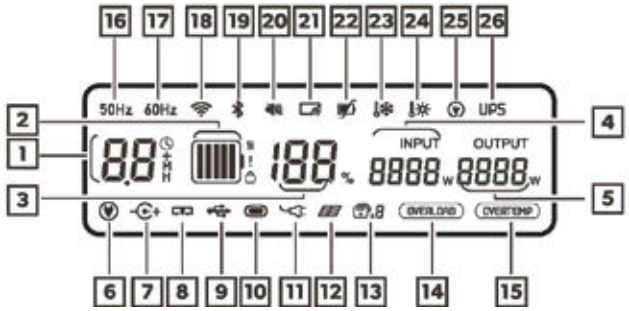
3. Specifications

NAME	Specifications
N.W net weight	11.5Kg
Size	465* 306* l93mm (L x w x h)
Rated Power	3600W
Charging ambient temperature	0°C~45°C
Discharge ambient temperature	-20°C~45°C
Storage ambient temperature	0°C~40°C
Working ambient humidity	10~90%
AC output waveform	Pure sine wave
AC output efficiency	>=88%
PV charging efficiency	>=90%
Input	
AC	110~130V, 1800W max(50/60Hz)
XT60	11 .5-60V(1000W 30A max)
Battery Expansion	40~5l.2V/90A max
AC Output	
Rated Output Voltage	120V~, 50/60Hz, 3600W maxTotal

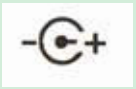
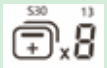
TT-30*1	120V/30A/3600W(50/60Hz)
Peak Power	5400 W
	DC Output
USB-C*2	PD100W (5V/9V/l 2V/15V/20V,5A max)
USB-A*2	18W(SV/3A, 9V/2A, 12V/1.5A)
Car charger*1	13.3V/15A, 199.SW max
Anderson*1	13.3V/45A, 598.SW max

4. LCD Display

LCD Display Icon Description



Display status	No.	Display status effect	Operation/Instruction
Time remaining indication	1	Ever Bright M Minutes H Hours	Less than or equal to 1H, in minutes; greater than 1H, in hours; S31 is the decimal point of the hour over 99 hours, highlight S15.
Battery icon	2		T5~T1: full frame indicates that the current power is 81~100% T5~T2: four cells indicate that the current power is 61~80% T5~T3: three cells indicate that the current power is 41~60% T5~T4: two cells indicate that the current power is 21~40% T5: A frame indicates that the current power is 0~20% T6: When SOC is lower than 5%, this icon will keep blinking. S19: The icon lights up when the battery is 0% and cannot be discharged. S20: Not enabled for the time being. S18: When detecting high or low battery temperature during charging, charging is prohibited at this time.

Percentage of power	3		Power percentage icon, power icon blue after switching on, visualises the current power level in numbers.
Display input status and power	4		Power on can display “INPUT”, “8888” blue real-time display of the current charging power; “W” means the current unit is watts.
Display output status and power	5		Power on can display “OUTPUT”, “8888” blue real-time display of the current discharge power; “W” means the current unit is watts.
AC Discharge Icon	6		In the power-on state, click the “AC” button to light up the icon; you can discharge the AC load at this time; when no AC load is detected for 4 hours, the output of AC is automatically turned off and the icon is extinguished. When overload or over-temperature protection is detected on this interface, the output of this interface will be shut down, blinking at intervals of 0.5 seconds until the fault is lifted, and beeping 3 times. Remarks: If the App has set the AC de-loading time, the set value will prevail.
Cigarette lighter discharge icon	7		Under the state of power-on, click the “DC” button to light up the icon; at this time, turn on the output of the cigarette lighter interface. When the interface is detected to be overloaded or over-temperature protection, turn off the output of this interface, with an interval of 0.5 seconds blinking until the fault is lifted, and the beeper will beep 3 times.
Anderson icon	8		In power-on mode, click the DC button to turn on the “Anderson Output” and light up the icon; (the next time you click the status is reversed); when overload or over-temperature protection is detected on this connector, the output of this connector will be turned off, with blinking intervals of 0.5 seconds (until the fault is lifted), and the beeper will beep 3 times.
USB Icon	9		The icon is lit when the USB detects a load.
Type C Icon	10		Typec lights the icon when it detects a load.
AC charging (input) icon	11		Lights up when the utility is charging; when under-voltage or over-voltage protection is detected on this connector, the output of this connector is turned off, blinking at 0.5 seconds intervals (until the fault is lifted), and beeping for 3 times.
PV Charging icon	12		XT60 lights up when connected to PV charging; when under-voltage or over-voltage protection is detected on this interface, the output of this interface will be turned off, blinking at intervals of 0.5 seconds (until the fault is lifted), and abnormalities occurring during PV charging do not require a buzzer to alert the operator.
Battery Expansion Icon	13		S30: Always on 8*13: Number of battery packs
AC discharge overload (including overcurrent) icon	14		Overload protection during AC discharge shuts down the output of this connector, blinks for 0.5 sec. intervals (until the fault is removed) and beeps 3 times.

AC discharge over temperature (high and low temperature) icon	15		AC discharge over-temperature protection shuts down the output of this interface, blinks for 0.5 seconds (until the fault is removed) and beeps 3 times.
AC Frequency Detect	16		When AC charging or AC discharging is detected to be on (including discharging), the read frequency value is displayed; Note: No AC charging or discharging state needs to be displayed.
	17		
WIFI icon	18		After turning on Bluetooth & WIFI (by pressing the button), the icon will not be displayed when WIFI is not connected, and the icon will be lit when it is successfully connected to the cell phone.
Bluetooth icon	19		After turning on Bluetooth & WIFI (by pressing the button), when Bluetooth is not connected, the icon blinks at 1-second intervals, and the icon is always on after successfully connecting with the cell phone.
Mute icon	20		This icon lights up when the buzzer is turned off via App settings.
LED backlight always on	21		When the LCD backlight enters the constant light mode; the method to enter the long light is as follows:1. Set it through App and light up the icon. 2. Press and hold the combination buttons (AC+DC) on the main unit panel for 3 seconds at the same time, and light up the icon. Note: The setting will be retained next time you turn on the computer.
Charge and Discharge Upper and Lower Limit Setting Effective icons	22		This icon lights up when the upper limit of charging or the lower limit of discharging is set via the App.
Cell Discharge Low Temperature Icon	23		Lights up when battery discharge low temperature protection is detected, discharging is prohibited at this time, the icon blinks at intervals of 0.5 seconds (until the fault is lifted), and beeps 3 times.
Cell Discharge HighTemperature Icon	24		Lights up when battery discharge high temperature protection is detected, discharging is prohibited at this time, the icon blinks at intervals of 0.5 seconds (until the fault is lifted), and beeps 3 times.
AC normally open icon	25		There are two ways to light up this icon: 1. Light up the icon when the “No-load shutdown delay” on APP is set to “Never”, 2; 2. When AC is on, press and hold the AC key for 3 seconds to turn on the AC normally open mode (the icon is displayed), and vice versa to turn off the AC normally open mode (the icon is not displayed).
UPS Icon	26		When in UPS mode (refers to AC charging and discharging at the same time), the icon lights up; Bypass overload: UPS and AC icons flash 3 times, beep 3 times, and shut down the AC output immediately.

5. Installation instructions

Attention

- After receiving the battery and removing the packaging, please check that the delivered parts are complete and that there is no visible external damage. If any items are missing or there is any damage, please contact your dealer;
- When handling battery products, hold them gently and put them down, do not bump the battery, and pay attention to personal safety;
- It is prohibited to remove the protective parts on the battery terminals, such as the waterproof caps on the main chassis, when handling the battery;
- Make sure that both the battery box and the main chassis switches are OFF during inspection and maintenance, and do not operate with electricity.

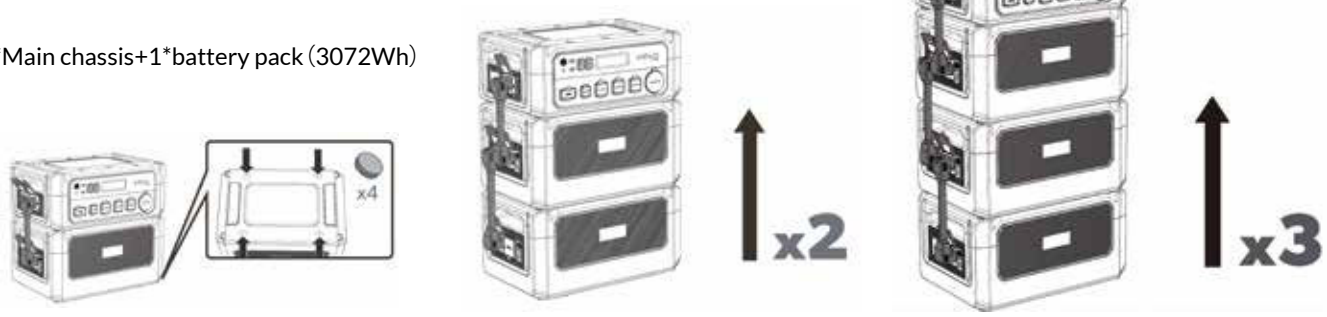
Recommended Stacking Method

*In order to keep the products stable when placing or stacking, Please install round silicone feet on the bottom corners of the bottom-most battery pack.

1*Main chassis+3*battery pack (9216Wh)

1*Main chassis+2*battery pack (6144Wh)

1*Main chassis+1*battery pack (3072Wh)



Installation steps (3072Wh for example)

Step 1: Select a piece of flat ground, make sure there are no other flammable or explosive items around, and reserve enough space to ensure the installation and heat dissipation safety isolation requirements;

Step 2: Remove the battery box and the main chassis of the product from the box respectively;

Step 3: Please install round silicone feet on the bottom corners of the bottom most battery pack;

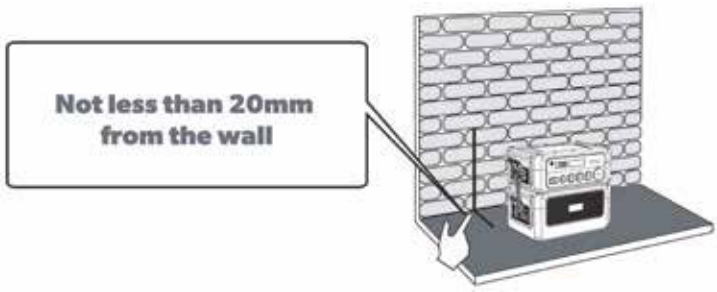
Step 4: Stack the battery box and the main chassis as shown in the above figure (maximum 4 battery boxes can be stacked), Place the battery pack with the round silicone pads at the very bottom;

Step 5: Turn on the switch buttons on the battery box and the main chassis in turn (long press 3S);

Step 6: Refer to “6. Introduction to product use”.

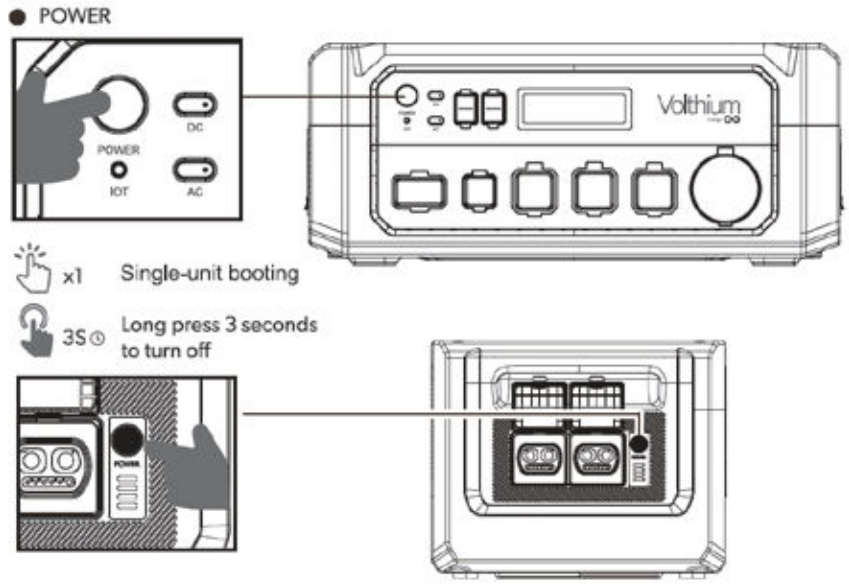
Note:

1. Use a 200mm cable to connect the battery pack to the main host, use a 242mm cable to connect the battery pack to the battery pack.
2. When the 1* main host +1* battery pack is used, it can be used with a trailer. When the number of battery pack exceeds 2 (including 2), it is recommended to place on the floor.
3. When installing, the distance between the main host and the wall should exceed 20mm, as shown in the following figure:



6. Introduction to product use

6.1 Power On/Off

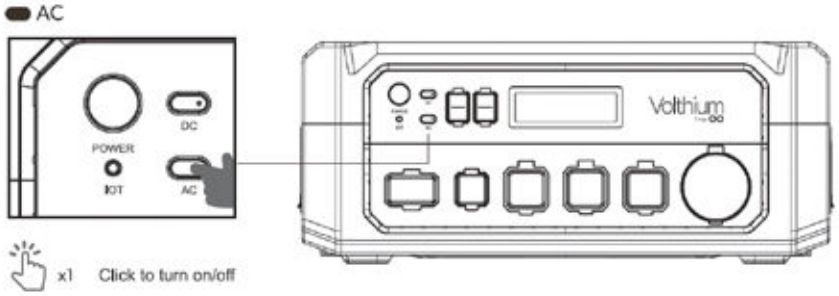


Mains power on/off: First, connect the main chassis and the battery box according to the installation procedure using the parallel cable as shown in the above figure, and make sure that the battery module and the main chassis are correctly connected, and that the parallel cable is not plugged in incorrectly or loose.

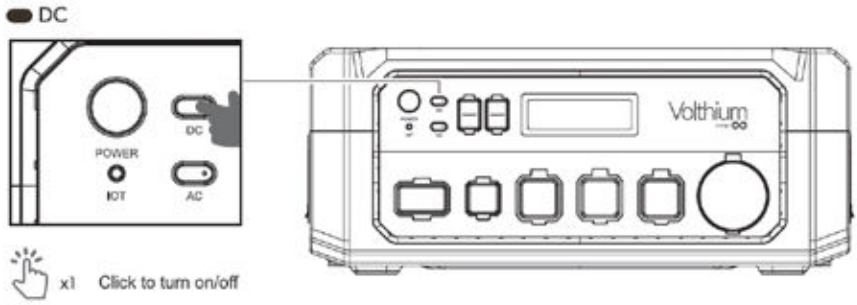
Power-up sequence:
On: ①Press and hold (2sec) the POWER button on the battery compartment, the battery level indicator lights up sequentially from bottom to top;
②Click the POWER key on the main chassis to complete the power-up.

Two methods of shutting down:
Off: ①Long press (2sec) the POWER button on the main chassis to turn off the mainframe; under the state of mainframe shutdown, the battery pack automatically turns off the output for about 5min;
②In non-charging mode (including AC charging or DC charging), long-pressing (2sec) the POWER button on the battery compartment immediately shuts down the entire power supply system and enters the shutdown state.

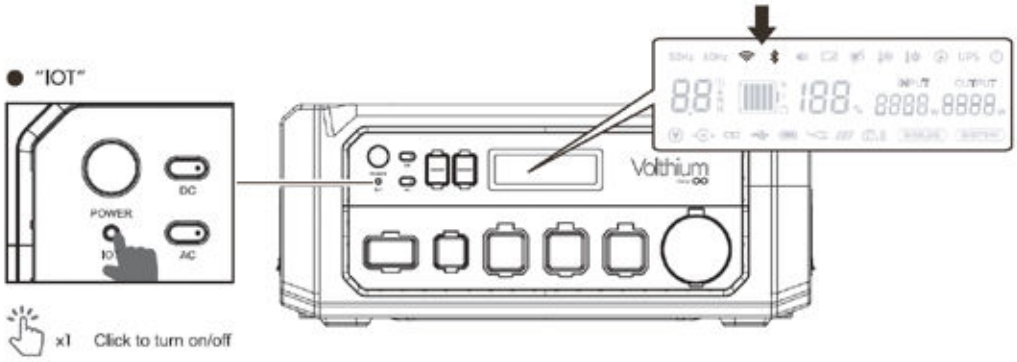
Note: When connected to mains power or PV charging, the battery box and main chassis will switch on automatically from the power-off state.



AC output On/Off: After ensuring that the main power supply is switched on, short press the AC output power supply while the AC output working indicator lights up, at this time you can connect to the equipment that requires AC AC power to use. Short press the AC output power again to switch off the AC output.



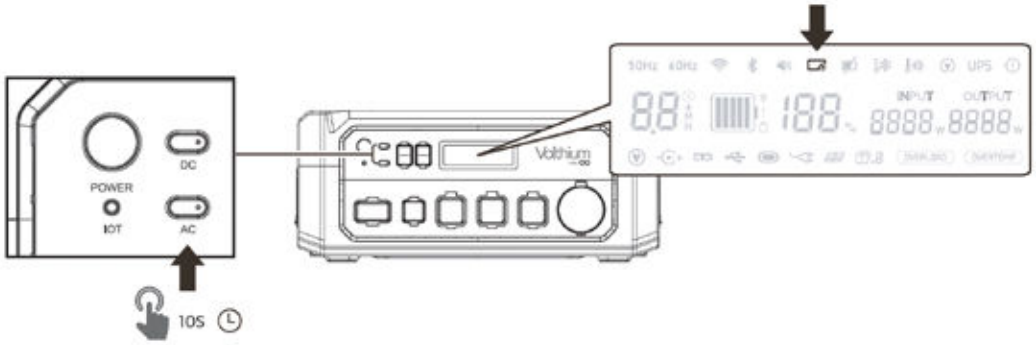
DC output On/Off: DC contains USB and car charger ports, under the condition of ensuring that the total power supply is on, short press the DC power output power while the DC power working indicator lights up, at this time, the USB-A output port/USB-C output port/vehicle charger output port can be externally connected to the load device to use. Short press the DC power output power button again can turn off the USB and car charger output.



"IoT" On/Off: Make sure the main chassis is normally on, short press the WIFI switch button, at the same time, the Bluetooth icon on the display is flashing, the Bluetooth icon is always on after successful Bluetooth pairing; the WIFI icon is always on after successful connection, and at this time, you can use the APP to connect to the WIFI to use. Press the button again to switch off WIFI.

6.2 Display On/Off

In the case of the main chassis is normally connected to the battery box, a short press on the main power switch button or access to external charging input, the screen will light up; when continued for 30S without any operation, the product enters into hibernation state, the display will be off at the same time, such as the need to light up, you can click on the main power switch, AC or DC switch any one of the buttons; long-press 3S or so the main power switch button displays the OFF icon, the main chassis enters into the shutdown state, at the same time, the display goes out. The main chassis enters the shutdown state, and the display goes out at the same time.



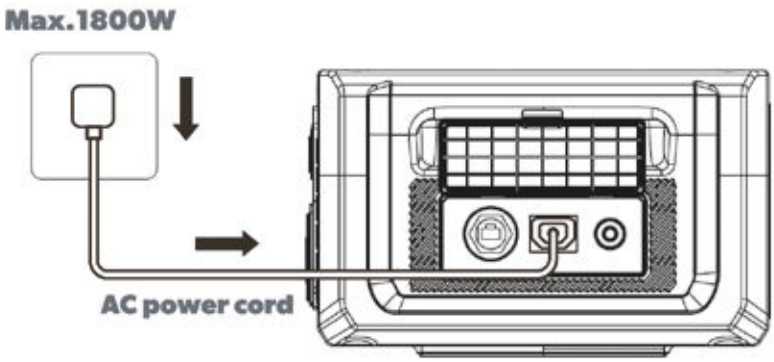
Display constant mode On/Off: Simultaneously long press the AC and DC buttons for 10S, the display icon lights up and enters the always-on mode, similarly long press the AC and DC buttons again at the same time for 10S, the display icon goes out and the always-on mode is disabled.

6.3 APP Connection
This product supports APP intelligent control operation, users can download the connection APP through the "APP connection operation guide" above the operating instructions, and register and log in to use, please refer to the "APP connection operation guide" for detailed connection instructions.

7. Product usage introduction

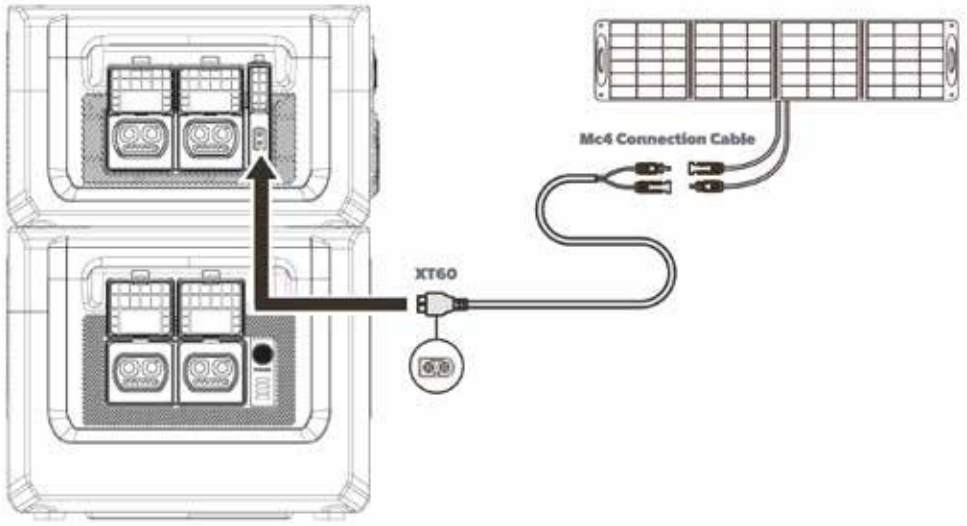
Safety Warning
- Before charging, please make sure that the main chassis and battery connections are intact and that the product has no connection faults or other problems.
- Be sure to use an original or a power cord that meets safety certification requirements and complies with the specifications of this product.
- When charging, please ensure that the area around the product is well ventilated and free of flammable and explosive materials.

7.1 AC charging
This product supports mains charging with a maximum charging power of 1800W.

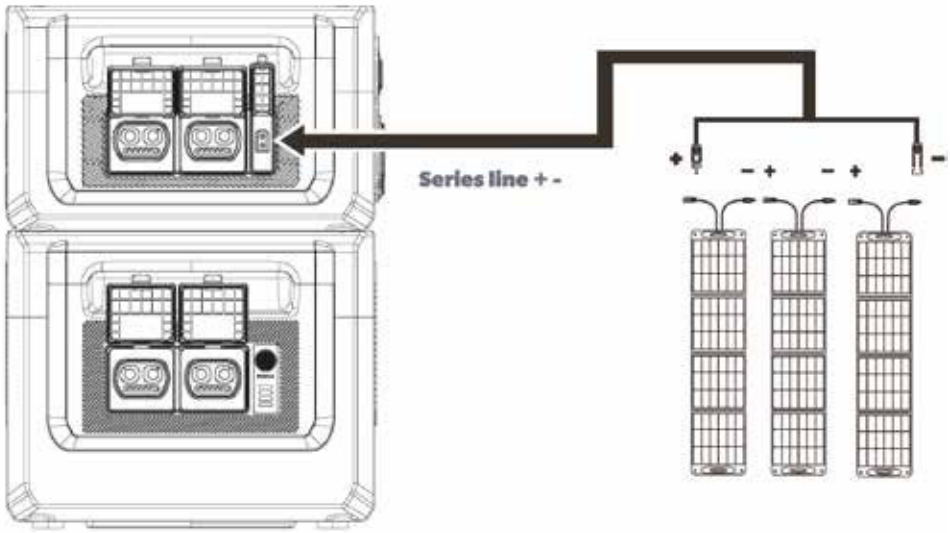


7.2 PV charging

This product supports photovoltaic charging, please make sure the voltage range of the photovoltaic panel is 11.5V~60V, the maximum charging current is 30A, and the maximum charging power is 1000W before using.



If you want to fully charge the battery quickly you can use multiple PV panels in series, paying attention to the total voltage between 11.5V~60V after series connection.



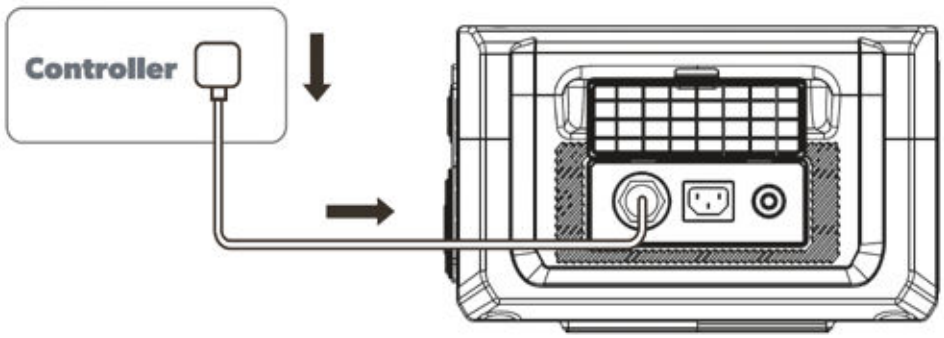
Attention

- If more than one PV panel is used in series, the PV panels should be of the same type and size.
- If more than one PV panel is to be connected, the connecting wires need to be provided by the customer.

7.3 RJ45 communication

We can force the system into inverter mode via RJ45 during peak electricity pricing periods. When electricity rates are high, the AC input is disconnected, and users manually switch to battery power via the controller.

Forced Inverter Operation Procedure:
1. The network manager sends a command to the master controller, which writes 0x5A95 to the inverter to initiate forced inverter mode.
2. The inverter switches to inverter operation based on its status. Status can be checked via the 0x0017 register.
3. To exit, the master controller writes 0x5A96, and the inverter resumes its original mode. If a fault occurs, the entry command can be resent.



8. Storage & Maintenance

Safety Warning
- Before each storage, switch off the device and charge it to 50%~70% capacity.
- Before the battery is stored, it must be disconnected from the external connection, e.g. the main chassis SOC indicator should be off.
- When storing the battery, it should be placed correctly according to the package identification, and not placed upside down or sideways.
- To keep the battery healthy, please charge and discharge the battery at least every 6 months.
- During the storage or use process, do not stack heavy objects on the top of the device.
- Avoid exposing the equipment in a rainy or humid environment and avoid direct sunlight. It is recommended to use or store in a clean and dry environment.
- Regularly check whether the heat sink fan is covered and dusty and clean in time.
- When storing the battery shipment, the principle of advanced precedent should be complied with.

Storage environment requirements:
- The temperature: -20℃~45℃, Recommended environmental temperature: 20℃~30℃
- Storage humidity: 20~90%Rh
- Keep dry, ventilated and clean
- avoid contact with corrosive gases and organic solvents
- The distance from the heat source must not be less than two meters

In principle, it is not recommended to store long-term storage. Long-term depth discharge will cause battery damage and should be used in time.

9. Frequently asked questions

1. What device is the product AC AC output interface connection?
A: This product AC AC output interface is 3600W, which can supply power to most household and consumer equipment. It is recommended that you confirm the power size of the device before use and ensure that the total power of all equipment is less than the rated power of the product. It is not recommended to supply high-power.

2. Does the product support the charge-and-discharge function?
A: Support. Using this feature is not recommended for powering high power devices.

3. What is the UPS switching delay time?
A: less than 10ms.

4. Can I use third-party PV panels to charge this product?
A: Yes. Third-party PV panels can be used, but you need to make sure the total voltage of the PV panels is between 11.5 V and 60 V by connecting them in series or parallel. The total power must not exceed 1000 W.

5. How do I know how long the product will power my device?
A: After the product is connected to the device, the display will show the estimated remaining usage time. This time is calculated based on the power consumption of the connected device and the remaining battery power.

6. Why does the battery drain even when it is not connected to any device?
A: Battery products have a certain amount of self-discharge. When the AC output is on, the product's internal power loss increases. When the product is not in use, it is recommended to turn off the AC output to reduce power loss.

10. WARNINGS

• Do not place the equipment near heat sources, and it is prohibited to place the equipment in flammable or explosive gases or environments, or to operate the equipment in such environments.
• Do not attempt to replace the battery or any other part of the main unit except by authorized persons.
• Do not use the device in a wet environment. If the device gets wet or accidentally falls into water, place it in a safe and open area and immediately move away from it until it dries out naturally. After drying, please do not continue to use it and dispose of it properly according to the disposal method in this manual.
• It is strictly prohibited to insert foreign objects or fingers into the product or use sharp objects to pierce the product, otherwise it may lead to product abnormality or short-circuit, and in serious cases, it may cause the battery to catch fire, explosion and other dangers.
• It is strictly prohibited to collide, drag, squeeze or step on the product, otherwise the product may be damaged.
• Do not use the product if there are obvious defects or damage to the product as a whole.
• If the product does not start properly, contact the manufacturer or after-sales service. Otherwise, permanent damage to the product may result.

10.1 Safety of use
• When installing or maintaining the equipment, make sure to disconnect the utility power or other power generating equipment, and prohibit installation, maintenance, moving and other operations with electricity.
• Do not place heavy or magnetic debris on the product. Please use the product in a dry and ventilated environment. Before use, make sure that the heat sink of the main unit is not blocked.
• Do not continue to use the product if it has been subjected to accidental impact, dropped, etc. It should be disposed of properly in accordance with the disposal method in this manual.
• Do not use this product in extreme environments such as strong static electricity or strong magnetic fields.
• Remove the product's power cord and other external devices when not in use.
• Do not use unofficial parts or accessories. For product repair or replacement of accessories, please contact the manufacturer or after-sales service personnel.
• It is strictly prohibited to use a broken power cord to connect this product.
• This product is used with the same potentially lethal alternating current as household mains power, so use caution and keep children away.
• The structure, installation sequence, etc. of the product may not be altered or modified without prior authorization.

10.2 Transportation & storage
• During transportation and transfer, please ensure that the outer box intact and correctly placed in accordance with the identification of the box, it is strictly prohibited to place upside down, sideways, standing, tilted placement, stacking attention to comply with the requirements of the packaging on the yardage, to avoid any fall or impact caused by the damage to the product scrapped.
• If you need to transport the product through freight forwarding logistics, please discharge the product power to 20%~30% first.
• When handling products by hand, wear protective gloves, labor insurance shoes and other safety gear to avoid injury.
• This product contains lithium batteries, which cannot be carried on board, please comply with the relevant provisions of civil aviation transportation.

• When storing the product, keep it in a dry environment at room temperature. Protect the product from dust and moisture, and do not expose it to rain or water on the ground.
• The ambient air must not contain corrosive or flammable gases.
• The product is recommended to be used in a timely manner. For battery products stored for a long time, please charge and replenish the battery regularly, otherwise it may lead to product damage.

10.3 Product Maintenance
• When carrying out maintenance or servicing of the product, it is strictly prohibited to operate with electricity and ensure that the product is disconnected from the mains and switched off for maintenance operations.
• Please use special protective tools and special insulated tools to avoid the risk of electric shock injury or short circuit.
• If there are stains on the exterior of the product, wipe it gently with a dry cloth and do not use water or solvents to clean it.
• Please store the product in accordance with the storage environment (20~25 ℃) specified in this manual.
• Regularly check the cooling fan for obstructions or dust and dirt, and check the cables for looseness and detachment.

10.4 Disposal
• Please dispose of this product in accordance with local battery recycling and disposal laws and regulations, and prohibit direct disposal of batteries directly into the general garbage.
• Be sure to discharge the product completely before disposing of it at a designated battery recycling center.
• If the battery cannot be emptied completely, a professional battery recycling company should be contacted for further processing.

10.5 Important Notes
The UPS function of this product is not applicable to the following application scenarios that require extremely high reliability or safety.
• Medical devices that have a direct impact on life safety;
• Equipment (e.g., airplanes, ships, elevators, etc.) that could cause personal injury;
• Data center equipment that requires extremely high reliability;
• Install the main chassis no less than 20mm from the wall so as not to affect the heat dissipation of the whole machine.

Personnel responsible for the installation and maintenance of this product must receive rigorous training, be fully aware of the various safety precautions and master the operating methods sought.

POWERSTATION 3600W

ADD-ON BATTERY

BATTERY SKU: EQP-PWRSTN-3600W-BATTERY

USER MANUAL



Volthium Energy inc. | T. 514.989.9586 | info@volthium.com | www.volthium.com

Thank you for purchasing our energy storage series products. Please read this manual carefully before use and keep it for reference. This manual helps you to operate the unit correctly, but it is not an introduction to the hardware and software configuration, for any product configuration please refer to the relevant contract or consult your dealer. The pictures in this manual are for reference only, thank you.

Please confirm first :
Before using it, please make sure that the contents of the package are complete.
In case there is something insufficient, please contact your dealer.

No.	Package contents	
1	Parallel Power Cable	x1
2	Round Silicone Foot Pad	x4
3	User Manual	x1
4	3600 Battery pack	x1

If the product is out of stock or damaged, please inform us of the product number, the above number 1 ~ 4 and the name of the product.

Disclaimer

Before using this product, please read this user manual carefully and use this product correctly according to the safety guidelines herein, especially the related precautions please be sure to comply with. Within the scope permitted by law, the operator will not be responsible for any damage to the product, personal injury, property loss, etc., caused directly or indirectly by improper use. In compliance with relevant laws and regulations, the company enjoys the final interpretation of these instructions and other documents, and is subject to revision, update or termination without prior notice.

The company does not bear responsibility for any situation or for any resulting consequences.

- Equipment damage caused by earthquake, flood, volcanic explosion, mudslides, lightning, fires, war, typhoon, extreme weather, force majeure is damaged;
- It is not running in the conditions used in this manual;
- The installation and use environment does not meet international, national or regional standards;
- Persons who do not qualify for the operation and maintenance of the equipment;
- No operation description and safety warning operation in the product and document;
- Disassembling, replacing products or modifying software code without authorization;
- You or your entrusted third-party transportation caused damage;
- Storage conditions are not damaged caused by the requirements of the document;
- Your own materials and tools do not meet local laws and regulations and relevant standards;
- You or third parties are negligent, intentional, major negligence, improper operation, or damage caused by non-company reasons.

SUMMARY

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4. Installation instructions 21

5. Introduction to product use 22

6. Storage & maintenance 23

7. Frequently asked questions 23

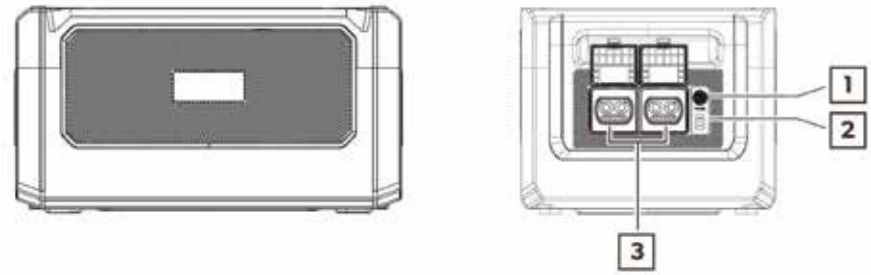
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1. Package contents

Parallel power cable x1	Round silicone foot pad x4	User Manual x1	3600 Battery pack x1
			

2. Product description



No.	Inspection items
1	Power
2	SOC battery indicator
3	Expansion battery port

3. Specification

N.W net weight	29kg
Size	l 465 * l 306* h 249mm
Battery Capacity	3072Wh (51.2V/60Ah)
Battery Expansion*2	40~51.2V/90A Max
Charging temperature	0~45℃
Discharge temperature	-20~55℃
Storage temperature	0~40℃
Working environment humidity	20~90%

4. Installation instructions

Attention

• After receiving the battery and removing the packaging, please check that the delivered parts are complete and that there is no visible external damage. If any items are missing or there is any damage, please contact your dealer;
• When handling battery products, hold them gently and put them down, do not bump the battery, and pay attention to personal safety;
• It is prohibited to remove the protective parts on the battery terminals, such as the waterproof caps on the main chassis, when handling the battery;
• Make sure that both the battery box and the main chassis switches are OFF during inspection and maintenance, and do not operate with electricity.

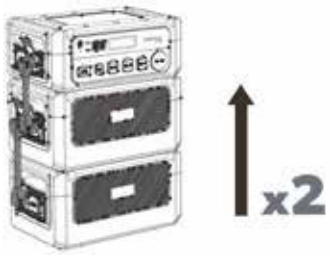
Recommended Stacking Method

In order to keep the products stable when placing or stacking, Please install round silicone feet on the bottom corners of the bottom-most battery pack.

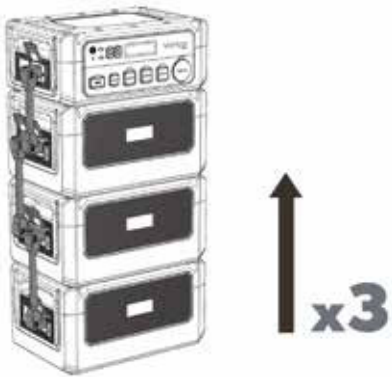
1*Main chassis+1*battery pack (3072Wh)



1*Main chassis+2*battery pack (6144Wh)

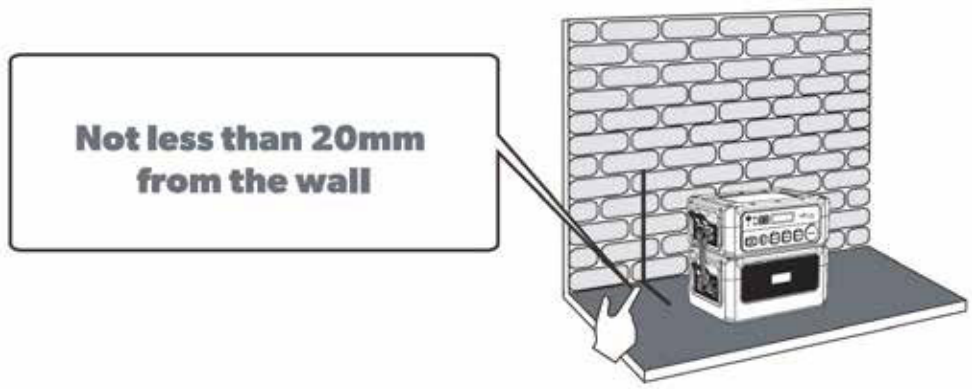


1*Main chassis+3*battery pack (9216Wh)



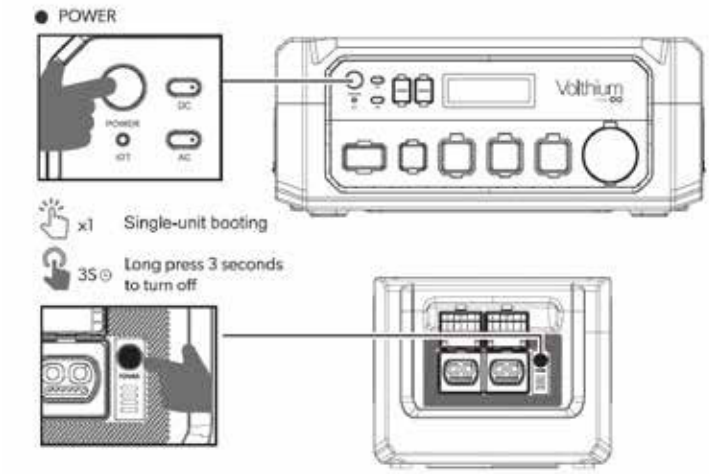
Installation steps (3072Wh for example)
Step 1: Select a piece of flat ground, make sure there are no other flammable or explosive items around, and reserve enough space to ensure the installation and heat dissipation safety isolation requirements;
Step 2: Remove the battery box and the main chassis of the product from the box respectively;
Step 3: Please install round silicone feet on the bottom corners of the bottom most battery pack;
Step 4: Stack the battery box and the main chassis as shown in the above figure (maximum 4 battery boxes can be stacked), Place the battery pack with the round silicone pads at the very bottom;
Step 5: Turn on the switch buttons on the battery box and the main chassis in turn (long press 3S);
Step 6: Refer to "6. Introduction to product use".

Note:
1.Use a 200mm cable to connect the battery pack to the main host,use a 242mm cable to connect the battery pack to the battery pack.
2.When the 1 main host +1 battery pack is used, it can be used with a trailer. When the number of battery pack exceeds 2 (including 2), it is recommended to place on the floor.
3.When installing, the distance between the main host and the wall should exceed 20mm, as shown in the following figure:



5. Introduction to product use

Power On/Off



Mains power on/off：First, connect the main chassis and the battery box according to the installation procedure using the parallel cable as shown in the above figure, and make sure that the battery module and the main chassis are correctly connected, and that the parallel cable is not plugged in incorrectly or loose.

Power-up sequence:
On: ①Press and hold (2sec) the POWER button on the battery compartment, the battery level indicator lights up sequentially from bottom to top;
②Click the POWER key on the main chassis to complete the power-up.

Two methods of shutting down:
Off: ①Long press (2sec) the POWER button on the main chassis to turn off the mainframe; under the state of mainframe shutdown, the battery pack automatically turns off the output for about 5min;
②In non-charging mode (including AC charging or DC charging), long-pressing (2sec) the POWER button on the battery compartment immediately shuts down the entire power supply system and enters the shutdown state.

Note: When connected to mains power or PV charging, the battery box and main chassis will switch on automatically from the power-off state.

6. Storage & maintenance

- Before each storage, switch off the device and charge it to 50%~70% capacity.
- To keep the battery healthy, please fill and discharge the battery at least once every 6 months.
- When storing the battery, it should be placed correctly according to the package identification, do not place it upside down or sideways.
- Avoid exposing the device to rain or humidity, avoid direct sunlight, it is recommended to use or store in a clean and dry environment.

Storage environment requirements:
- The temperature: -20℃~45℃, Recommended environmental temperature: 20℃~30℃
- Stolar humidity: 20~90%Rh
- Do dry, ventilation, cleaning
- So contact with corrosive gases and organic solvents
- The distance from the heat source must not be less than two meters

In principle, it is not recommended to store long-term storage. Long-term depth discharge will cause battery damage and should be used in time.

7. Frequently asked questions

1. How do I claim warranty on this product?
A: Please contact your dealer.2. Does this unit support charging and discharging at the same time?

2. Does this unit support charging and discharging at the same time?
A: Yes, this machine supports charging and discharging at the same time.

3. Why does the battery drain even when not connected to any device.
A: Battery products have a certain amount of self-discharge, long time storage will make the power gradually discharged.

8. Warning

- Do not place the equipment near heat sources, and it is prohibited to place the equipment in flammable or explosive gases or environments, or to operate the equipment in such environments.
- Do not attempt to replace the battery or any other part of the main unit except by authorized persons.

• Do not use the device in a wet environment. If the device gets wet or accidentally falls into water, place it in a safe and open area and immediately move away from it until it dries out naturally. After drying, please do not continue to use it and dispose of it properly according to the disposal method in this manual.
• It is strictly prohibited to insert foreign objects or fingers into the product or use sharp objects to pierce the product, otherwise it may lead to product abnormality or short-circuit, and in serious cases, it may cause the battery to catch fire, explosion and other dangers.
• It is strictly prohibited to collide, drag, squeeze or step on the product, otherwise the product may be damaged.
• Do not use the product if there are obvious defects or damage to the product as a whole
• If the product does not start properly, contact the manufacturer or after-sales service. Otherwise, permanent damage to the product may result.

8.1 Safety of use
• When installing or maintaining the equipment, make sure to disconnect the utility power or other power generating equipment, and prohibit installation, maintenance, moving and other operations with electricity.
• Do not place heavy or magnetic debris on the product. Please use the product in a dry and ventilated environment. Before use, make sure that the heat sink of the main unit is not blocked.
• Do not continue to use the product if it has been subjected to accidental impact, dropped, etc. It should be disposed of properly in accordance with the disposal method in this manual.
• Do not use this product in extreme environments such as strong static electricity or strong magnetic fields.
• Remove the product's power cord and other external devices when not in use.
• Do not use unofficial parts or accessories. For product repair or replacement of accessories, please contact the manufacturer or after-sales service personnel.
• It is strictly prohibited to use a broken power cord to connect this product.
• This product is used with the same potentially lethal alternating current as household mains power, so use caution and keep children away from it.
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• Regularly check the cooling fan for obstructions or dust and dirt, and check the cables for looseness and detachment.

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• Be sure to discharge the product completely before disposing of it at a designated battery recycling center.
• If the battery cannot be emptied due to a fault in the product itself, a professional battery recycling company should be contacted for further processing.