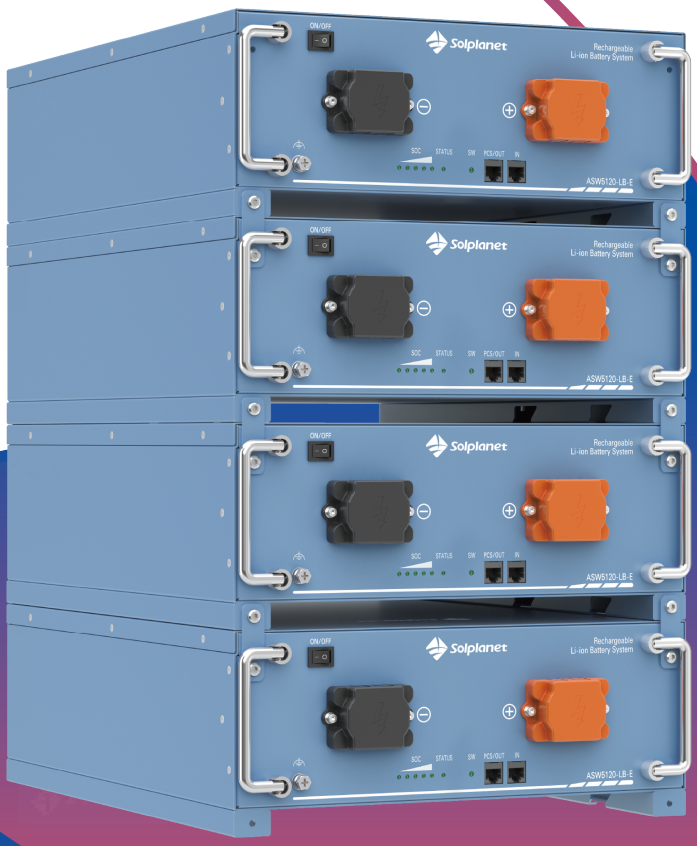
Solplanet



ASW5120-LB-E

User Manual

Android

iOS

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1 General information

1.1 About this document

This document describes the mounting, installation, commissioning, configuration, operation, troubleshooting and decommissioning of the Ai-LB battery energy storage system (BESS).

The contents of this guide may be updated or revised due to on-going product development and continuous improvement. The information in this guide is subject to change without notice. The latest version of this document and the user manual for installation, commissioning, configuration and decommissioning are to be found in PDF format at www.solplanet.net.

It is recommended that this document be readily accessible at all times.

1.2 Product validity

This document is valid for the following models:

- ASW5120-LB-E

1.3 Target group

This document is intended for qualified persons who must perform the tasks exactly as described in this user manual.

All installation work must be performed by appropriately trained and qualified persons.

Qualified personnel must possess the following skills:

- Knowledge of how batteries work and are operated.
- Knowledge of how an inverter works and is operated.
- Training in how to deal with the dangers and risks associated with installing, repairing and using electrical devices, batteries and installations.
- Training in the installation and commissioning of electrical devices.
- Knowledge of all applicable laws, standards and directives.
- Knowledge of and compliance with this document and all safety information.

Not adhering to the prescribed instructions may potentially void the manufacturer's warranty. If in doubt please contact the local Solplanet service team.

1.4 Symbols

DANGER

Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

Indicates a situation which, if not avoided, can result in property damage.

Information that is important for a specific topic or goal, however not related to safety.

2 Safety

2.1 Intended use

The ASW5120-LB-E is a BESS which is for both residential and commercial applications and operates with Solplanet hybrid inverters.

It is a low-voltage Li-ion BESS controlled via a battery management system (BMS).

It can be operated in on-grid, off-grid and backup modes with officially compatible Solplanet inverters. The latest version of the Solplanet battery compatibility list can be found in PDF format at www.solplanet.net.

The product is suitable for indoor.

- The product must only be used as a stationary device.

Alterations to the product are not allowed unless authorised in writing by Solplanet.

Unauthorised alterations will void the guarantee and warranty claims. Solplanet will not be held liable for any damage caused by such unauthorised alterations.

The product is not suitable for supplying power to life-sustaining medical devices.

Please ensure that no personal injury would lead due to the power outage of the battery system.

The product must only be used in countries for which it is approved for by Solplanet.

Use this product only in accordance with the information provided in this documentation and with the locally applicable standards and directives. Any other application may cause personal injury or property damage.

The type label must remain permanently attached to the product.

This document does not replace any regional, state, provincial, federal or national laws, regulations or standards that apply to the installation, electrical safety and use of the product.

2.2 Important safety instructions

The product has been designed and tested strictly according to the international safety requirements. As with all electrical or electronical devices, there are residual risks despite careful construction.

To prevent personal injury and property damage and to ensure long-term operation of the product, read this section carefully and observe all safety information at all times.

⚠ *DANGER*

Danger to life due to DC voltages of the battery!

When the BESS connected to the inverter, and the ON/OFF button is ON, the batteries will generate a DC voltage which will be present in the DC cable and live components.

- Do not touch non-insulated parts or cables.
- Do not touch the DC conductors.
- Do not touch any live components of the product.
- Do not open the product.
- All work on the product must only be carried out by qualified personnel who have read and fully understood all safety information contained in this document.
- Disconnect the product from voltage sources and ensure it cannot be reconnected before working on the product.
- Wear suitable personal protective equipment, in accordance with local regulations, for all work on the product.

⚠ *DANGER*

Danger to life due to electric shock where surge protection is not used!

If there is no surge protection, a voltage surge can be conducted into the building and to other connected devices in the same system through power cables, network cables or other types of cable. Touching live parts and cables may result in death or lethal injury due to electric shock.

- Ensure all devices in the same system and the inverter are integrated within an existing surge protection system/device.
- Refer to local installation regulations to determine the requirements for the installation of surge protection devices.

⚠ WARNING

Danger to life due to electric shock from destruction of measurement devices due to overvoltage !

Overvoltage can damage a measurement device and result in voltage being present in the enclosure of the measurement device. Touching the live enclosure of the measuring device results in death or lethal injuries due to electric shock.

- Only use measuring devices with a measurement span equal to or higher than maximum voltage range of the product.

⚠ WARNING

Risk of injury due to weight of product !

Injuries may result if the product is incorrectly handled or dropped while being transported or mounted.

- Lift and transport the product carefully.
- Wear suitable personal protective equipment, in accordance with local regulations, for all work on the product.
- When stacking and parallel connecting battery systems, it is necessary to install the module locking plates properly.

NOTICE

Damage to the battery system due to electrostatic discharge!

Internal components of the battery system can be irreparably damaged by electrostatic discharge.

- Ground yourself before touching any component.

NOTICE

Damage to the battery due to particles and water!

Particles such as dust and sand can damage the battery and impair its functionality.

- Open the battery cover is forbidden!

2.3 Symbols on the label

	Beware of a danger zone This symbol indicates that the product must be additionally grounded if additional grounding or equipotential bonding is required at the installation site.
	Beware of DC voltage and operating current! The product operates at a DC voltage and current. Work on the product must only be carried out by skilled and authorized personnel.
	Beware of explosion! The battery is an electro-chemical device with a risk of explosion in extreme cases. Please maintain a safe distance away from the device when danger occurs.
	Beware of danger to children! The battery must be inaccessible to children.
	Flammable Keep the battery system away from open flames or ignition sources.
	WEEE Designation Do not dispose of the product together with household waste. Dispose the product in accordance with local disposal regulations for electronic waste applicable in the country of installation.
	CE marking The product complies with the requirements of the applicable EU directives.
	Certification mark The product has been tested by TÜV and obtained the quality certification mark.
	The battery is recyclable The battery can be recycled by a professional recycling organization, please refer to the relevant local regulations.
	Observe the documentation Read and understand all documentation supplied with the product.

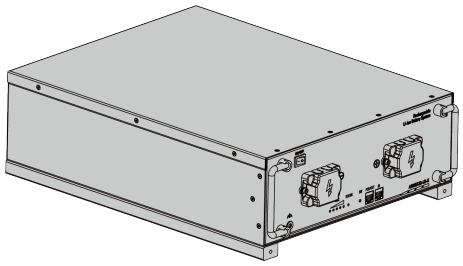
3 Unpacking and storage

3.1 Scope of delivery

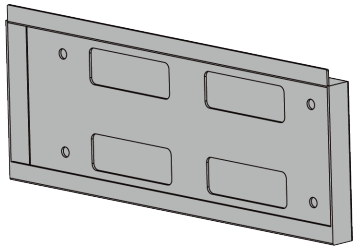
Check the scope of delivery for completeness and any visible external damage. Contact your distributor if the scope of delivery is incomplete or damage.

3.1.1 Standard package

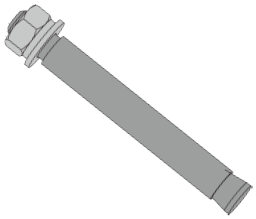
Battery Module Package



A



B



C



D

Object	Description	Quantity
A	Battery module	1
B	Wall bracket	1
C	Expansion anchor bolt (M8 X 80)	4
D	Quick installation guide	1

3.1.2 Optional package

⚠ *WARNING*

Risk of injury due to weight of product !

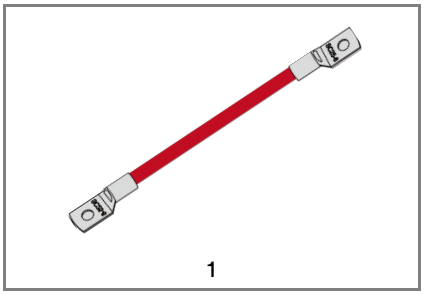
Injuries may result If the product is not installed correctly and falls off.

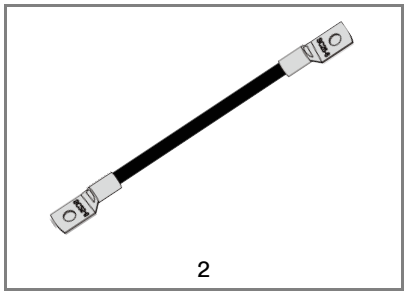
- When stacking and parallel connecting battery systems, it is necessary to install the module locking plates properly.
- Please make sure to purchase parallel wiring harnesses from suppliers.

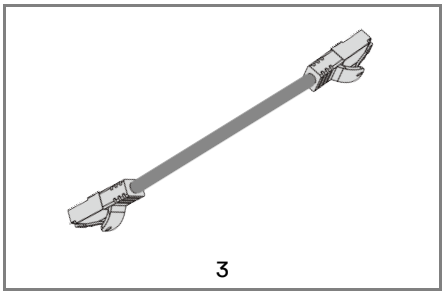
If the customer's output harness is made on site, the harness must meet the following requirements:

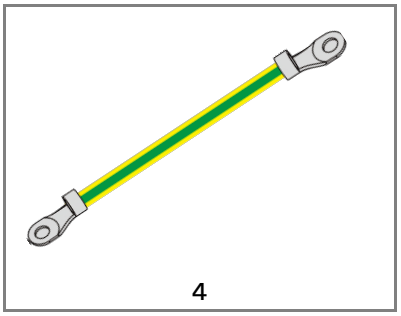
- Please use dedicated wires for the power harness and grounding harness, and distinguish them by color. For example, the positive wire is red, the negative wire is black, and the grounding wire is yellow green. The voltage level of the wire reaches 300V or above.
- The power harness model is 4awg, with terminals SC25-6 or OT25-6. The grounding harness model is 10awg, with terminals SC6-6 or OT6-6. Insulate the exposed area with heat shrink tubing.
- The wiring harness adopts RJ45 and meets Cat5e or higher standards, with straight through wires used.
- All wire harness lengths are based on on-site requirements.

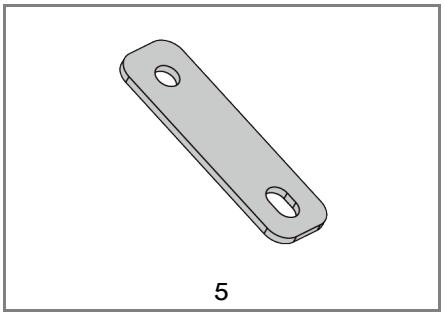
Parallel Connection Package (LBP334-011277-00)

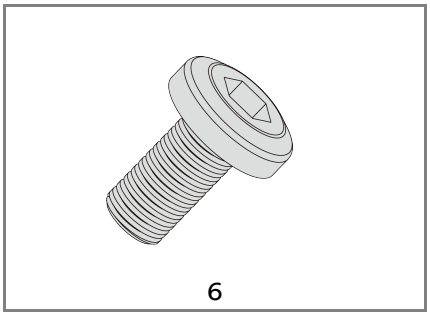

1


2

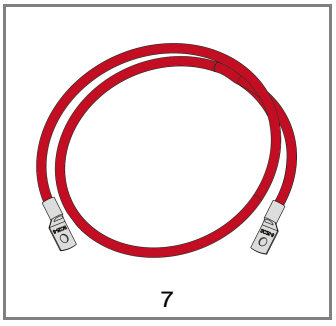

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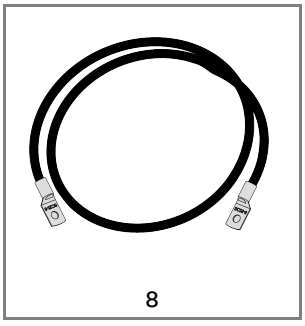

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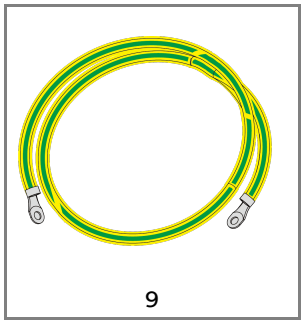

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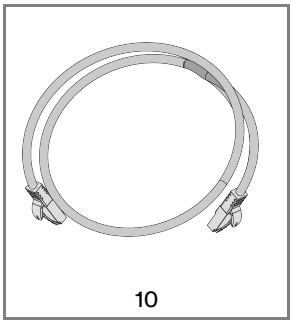

6

Output Cable(1.5m) Package (LBP334-011278-00)


7


8


9


10

Object	Description	Quantity
1	Parallel positive cable (160 mm)	1
2	Parallel negative cable (160 mm)	1
3	Parallel communication cable (180 mm)	1
4	Parallel Grounding Cable (160 mm)	1
5	Module locking plate	4
6	M5X10 screw	8
7	Positive cable (1.5m)	1

8	Negative cable (1.5m)	1
9	Grounding Cable (1.5m)	1
10	Communication Cable (1.5 m)	1

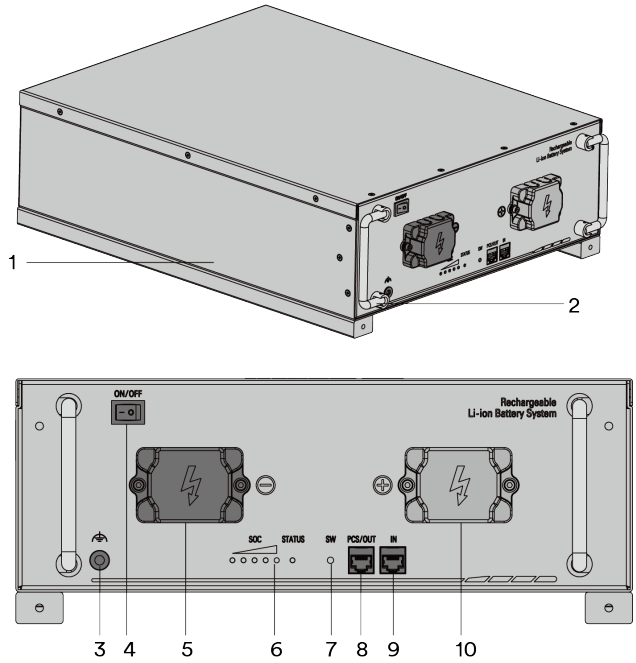
3.2 Product storage

Suitable storage is required if the equipment is not installed immediately:

- Store the battery in the original packing case.
- The storage temperature must be between -20°C to +45°C, and the storage relative humidity must be between 5% and 95%, non-condensing.
- Store the battery with a 25 – 50 % SOC and recharge it every 6 months to prevent over-discharge.
- The packing with the equipment shall not be tilted or inverted.
- Place the equipment in a cool place away from direct sunlight.
- Keep the equipment away from flammable, explosive, and corrosive materials.
- Keep the equipment away from rain.
- If stored for 3+ months, the product must be inspected and tested by authorized personnel before use.

4 Battery system overview

4.1 Product description



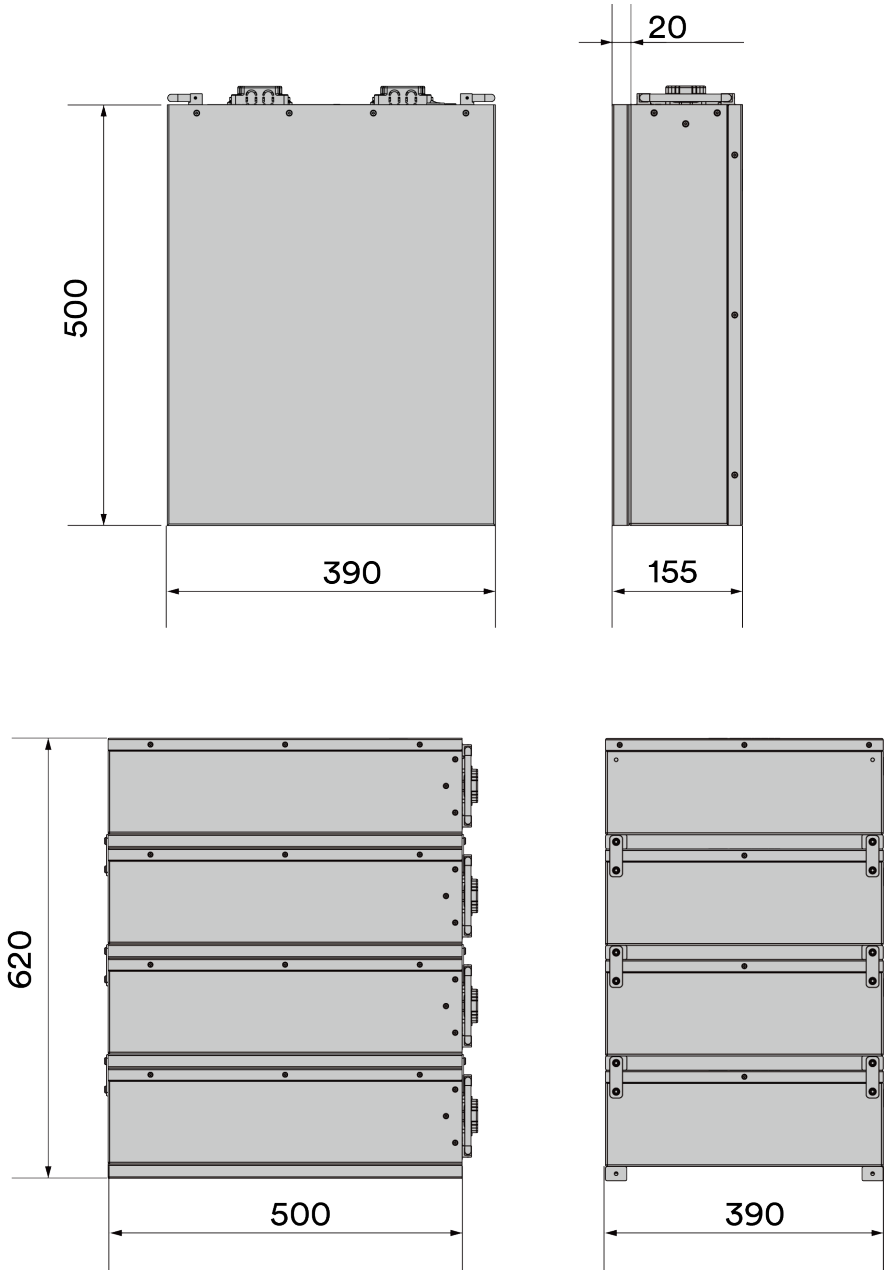
Figures shown here are for reference only. The actual product received may differ!

Object	Description
1	Battery Module
2	Handle
3	Grounding

4	Power on/off switch
5	P-
6	LED indicators
7	SW (Reset)
8	PCS/Out (Connect PCS/parallel communication connection)
9	In (Parallel communication connection)
10	P+

4.2 Dimensions

Unit：mm



4.3 LED indicator

The LED's on the battery system indicates the status of the BESS.

LED status definitions:

- Solid On: LED is permanently illuminated.
- Off: LED is off (is not illuminated).
- Blinking: The LED is 1s on and 1s off cyclic.
- Slow Blinking: The LED is 0.5s on and 5s off cyclic.

Function	LED		Description
Status		Solid ON	Indicates normal state.
		Blinking	Indicates Firmware update state.
		Slow Blinking	Indicates sleep state.
		Blinking	Indicates communication loss.
		Solid ON	Indicates an alarm.
		Solid ON	Indicates a fault.
		Off	Indicates shutdown state.
SOC		ON	SOC:80%~100%
		ON	
		ON	
		ON	
		ON	
SOC		OFF	SOC:60%~80%
		ON	
		ON	
		ON	
		ON	
SOC		OFF	SOC:40%~60%
		OFF	
		ON	
		ON	

		ON	
SOC		OFF	SOC:20%~40%
		OFF	
		OFF	
		ON	
		ON	
SOC		OFF	SOC: 0%~20%
		OFF	
		OFF	
		OFF	
		ON	

There are five LEDs to indicate the State of Charge (SOC) of the battery and the different status of the LEDs indicates the different working state of the battery.

- Discharging state: Solid on (all bright LEDs according to SOC).
- Charging state: the current SOC LED (N-1) is solid on, and the other SOC LED (6-N) light up every 0.5S from bottom to top sequentially and cycling.
- Idle state: the SOC indicator LED is solid on.
- Sleep state: the SOC indicator LED is off ,and the status light is slowly blinking.
- Firmware update state: the SOC indicator LED is solid on ,and the status light is blinking.

4.4 Interfaces and functions

The product is equipped with the following interfaces and functions:

System startup

Put the switch button in the ON state, release it, and wait for the LED to light up. The BESS will enter working mode, ready for normal charging and discharging.

System shut down

Put the switch button in the OFF state. Make sure that both the SOC indicator and the status indicator LED of the BESS are off.

Communication (CAN) Interface - “PCS/OUT”

The “PCS/OUT” is an RJ45 port used for connecting the BESS to an inverter. The product can communicate with the inverter through the CAN interfaces. The CAN interfaces can also be used for the parallal operation of the products.

Communication (CAN) Interface - “IN”

The "IN" RJ45 port connects to another battery cluster system for communication. Refer to the wiring diagrams in Chapter 6.4 for details.

5 Mounting

5.1 Mounting requirements

5.1.1 Installation location requirements

DANGER

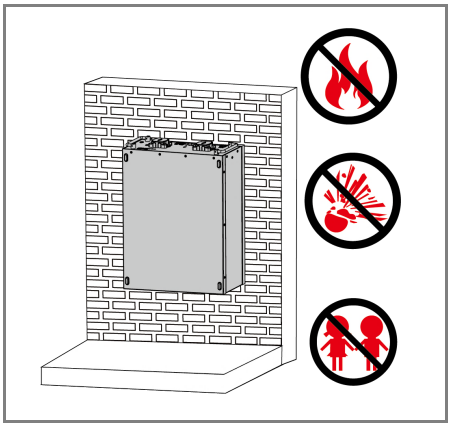
Danger to life due to fire or explosion!

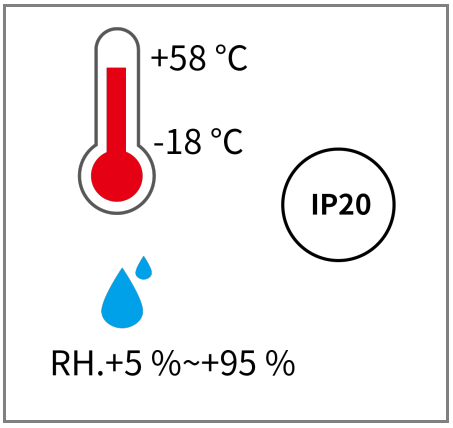
Despite careful construction, electrical devices can cause fires. This can result in death or serious injury.

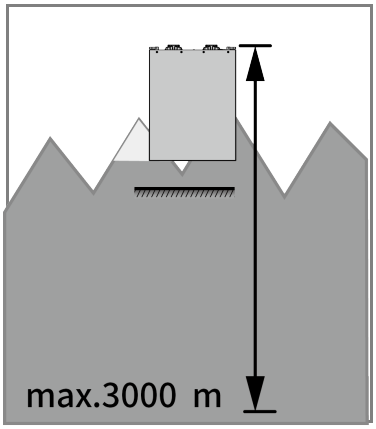
- Do not mount the product in areas containing highly flammable materials or gases.
- Do not mount the inverter in areas where there is a risk of explosion.

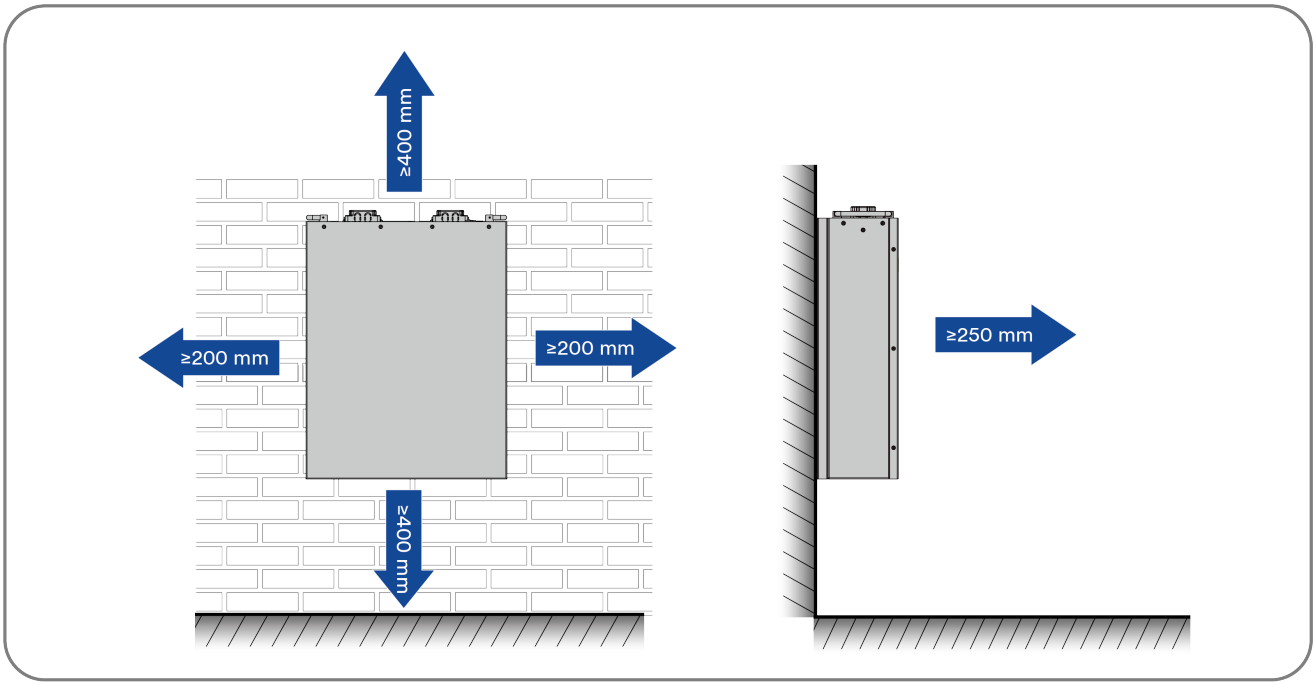
- A solid support surface must be available (e.g. concrete or masonry).
- The mounting location must be inaccessible to children.
- The installation location must be suitable for the weight and dimensions of the BESS.
- Keep away from conductive (metal) materials.
- Keep away from water, heat, flammable, or explosive materials.
- The installation location must not be close to fire.
- The product should be mounted such that the LED indicators can be read without difficulty.
- The circuit breaker of the BESS must always be freely accessible.
- The altitude of the installation location should be less than 3000 m.
- The product is suitable for indoor use.
- The operating temperature should be between -18°C ~ +58°C.
- The ambient humidity should be between 5~95%.
- The mounting location must not be exposed to direct solar irradiation. If the product is exposed to direct solar irradiation, the exterior components may age prematurely and overheating might occur. When becoming too hot, the BESS reduces its power output to avoid overheating, and will reduce its lifetime also.

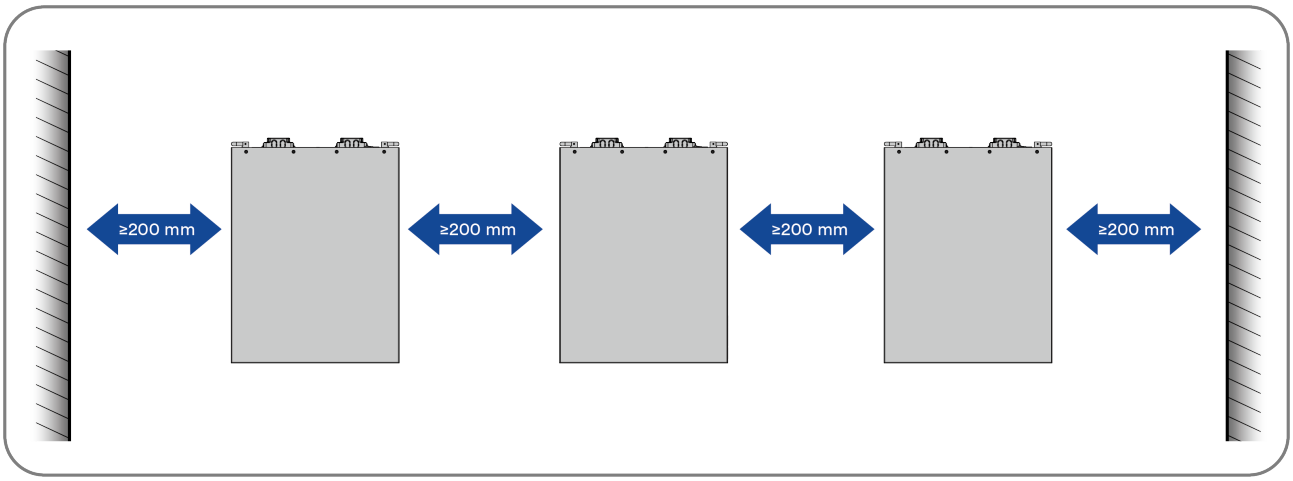
1 module



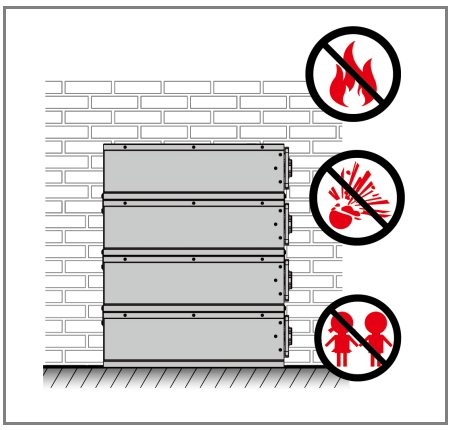


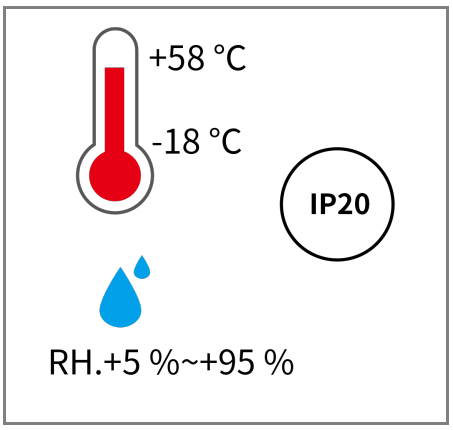


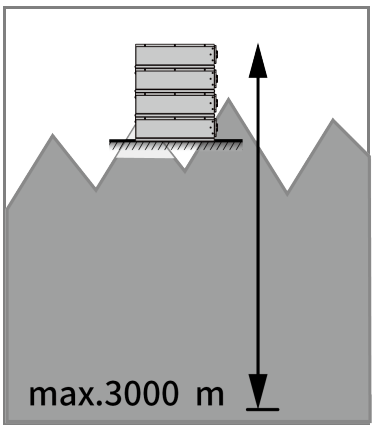

≥400 mm
≥200 mm
≥200 mm
≥400 mm
≥250 mm

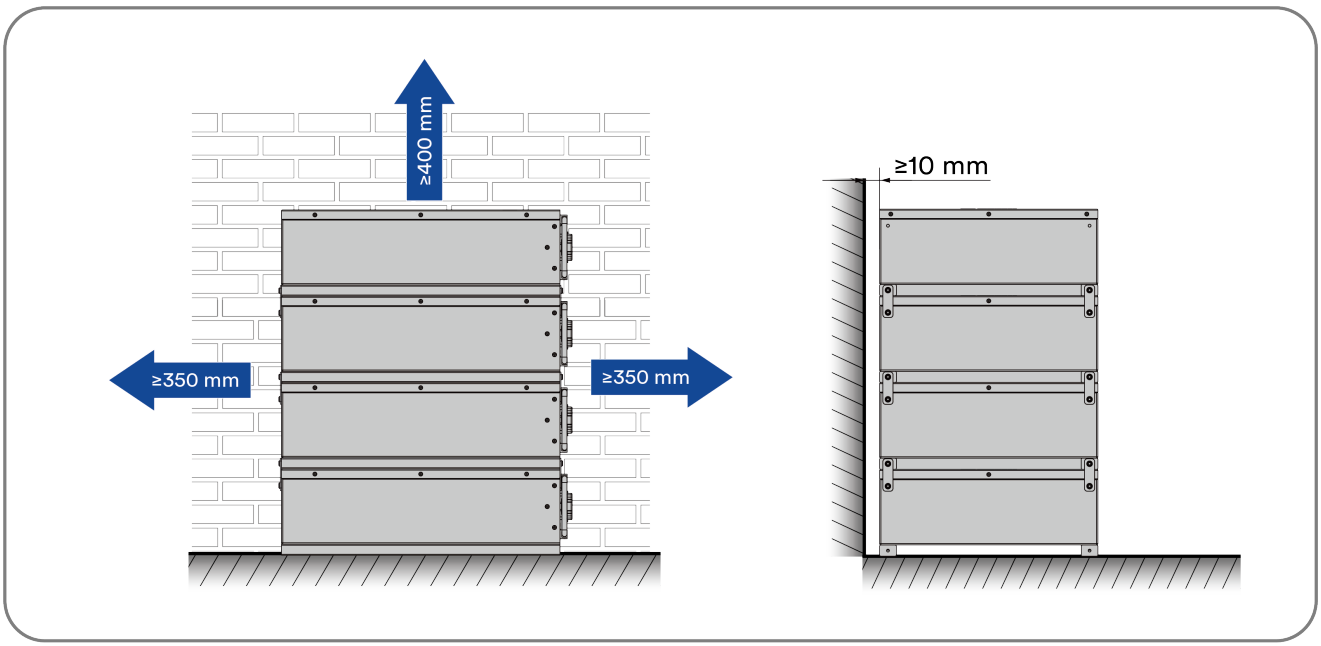

≥200 mm
≥200 mm
≥200 mm
≥200 mm

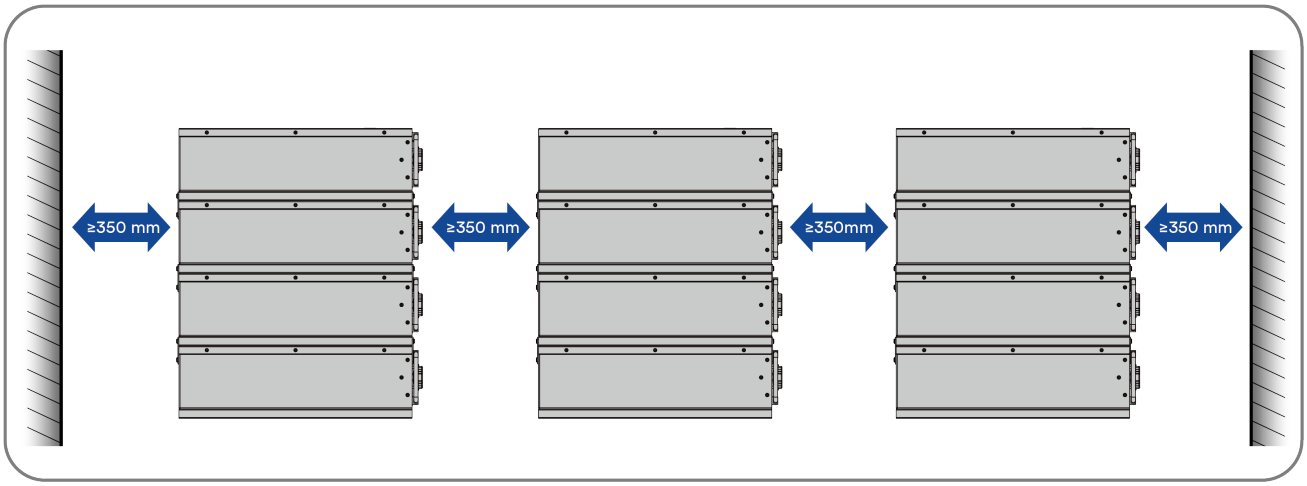
2-4 module



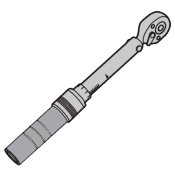
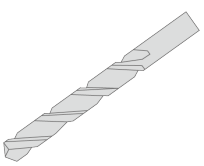
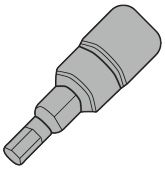
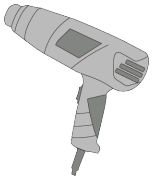

+58 °C
-18 °C
IP20
RH.+5 %~+95 %

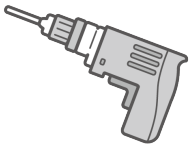

max.3000 m





5.1.2 Tools

 Phillips-screwdriver Specification: M5/M6	 Marker pen	 Phillips Screwdriver Bit Specification: M5 / M6	 Wrench
 Torque wrench	 Twist drill(10mm)	 Hexagon socket bit S=4	 Heat Gun



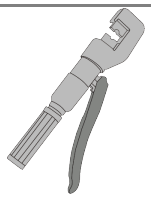
Electric Drill



Network Cable Crimping Tool



Wire Stripper



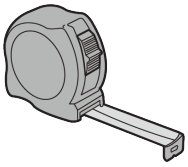
Crimping Pliers



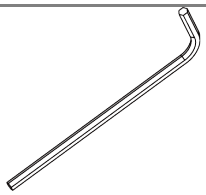
Scissor



Hammer



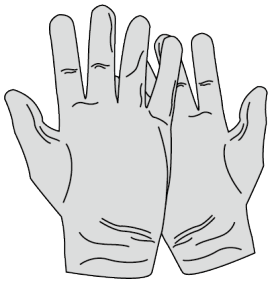
Tape measure



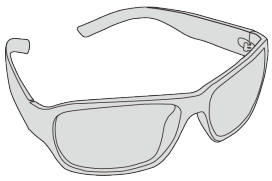
Hex Key S=4

5.1.3 Safety gear

Wear the following safety gear when working on the BESS. Adhere to local occupational health and safety standards.



Insulated gloves



Safety goggles



Safety shoes

5.2 Mounting

⚠ DANGER

Danger to life due to DC voltages of the battery!

When the BESS connected to the inverter, and the ON/OFF button is ON, the batteries will generate a DC voltage which will be present in the DC cable and live components.

- Do not touch non-insulated parts or cables.
- Do not touch the DC conductors.
- Do not touch any live components of the product.
- Do not open the product.
- All work on the product must only be carried out by qualified personnel who have read and fully understood all safety information contained in this document.
- Disconnect the product from voltage sources and ensure it cannot be reconnected before working on the product.

⚠ WARNING

Risk of injury due to weight of product!

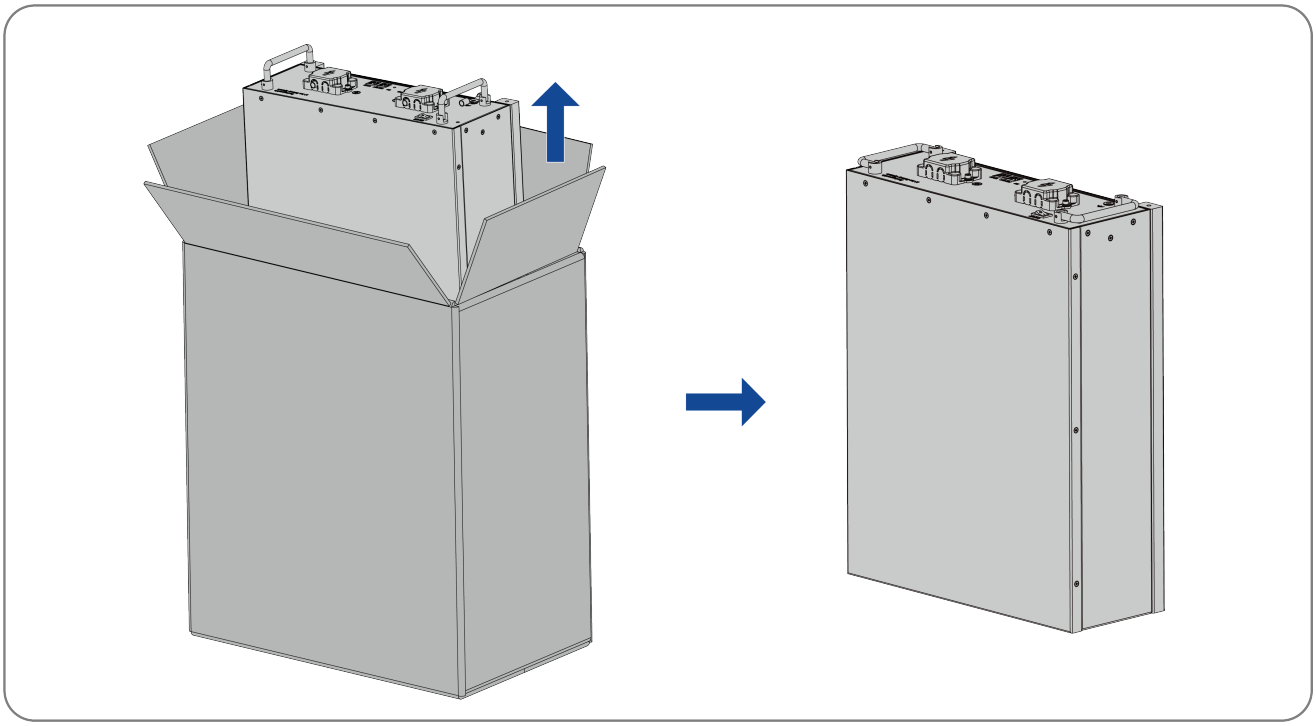
Injuries may result if the product is incorrectly handled or dropped while being transported or mounted.

- Lift and transport the product carefully.

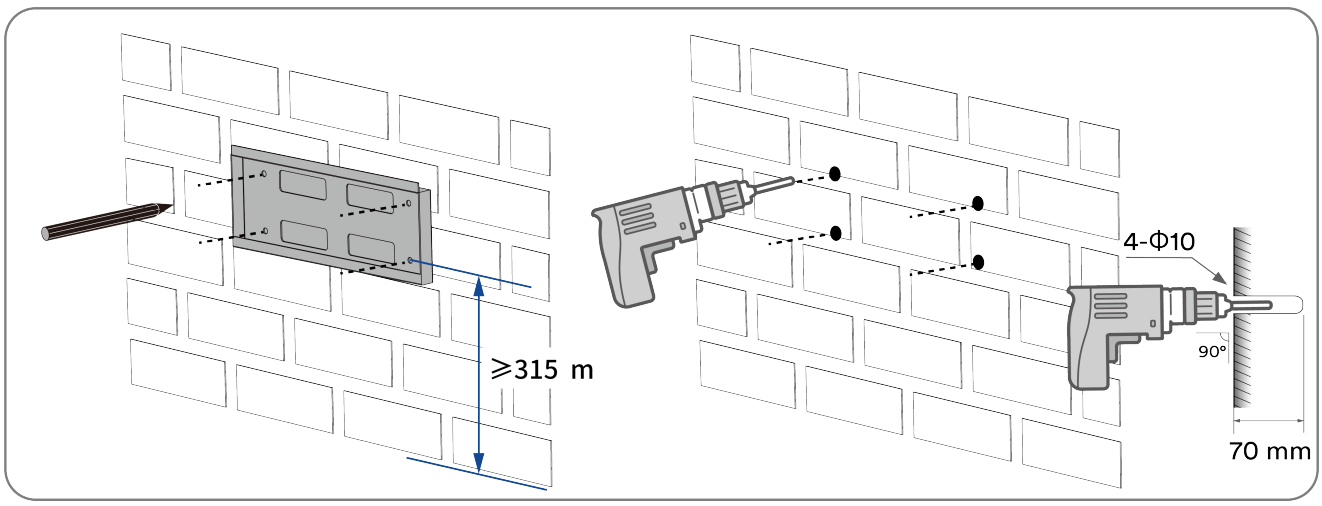
- Wear suitable personal protective equipment, in accordance with local regulations, for all work on the product.
- When stacking and parallel connecting battery systems, it is necessary to install the module locking plates properly.

1 module

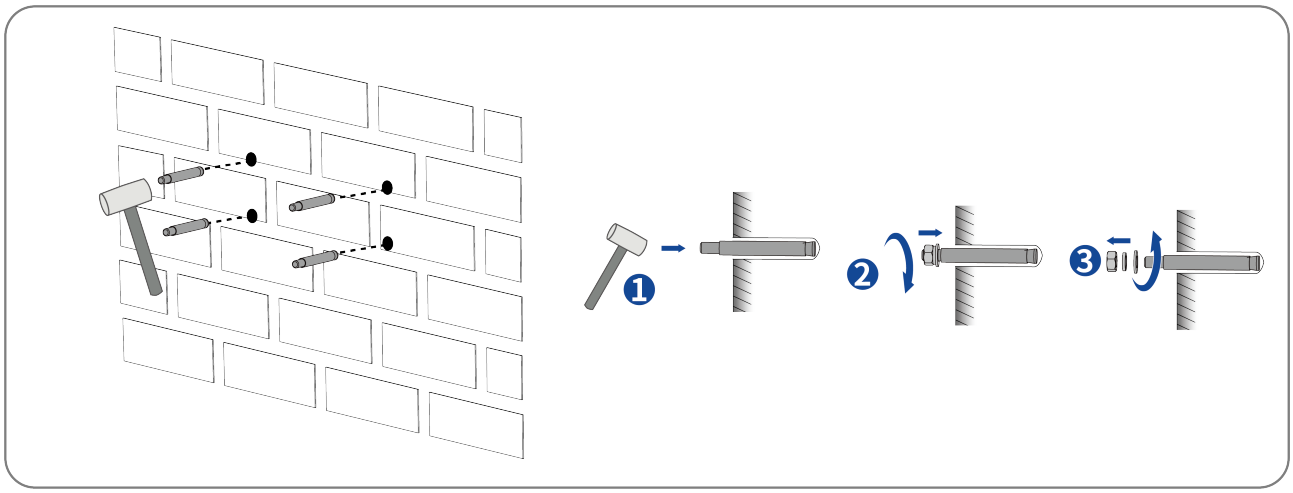
Step 1: Open the box and take out the battery.



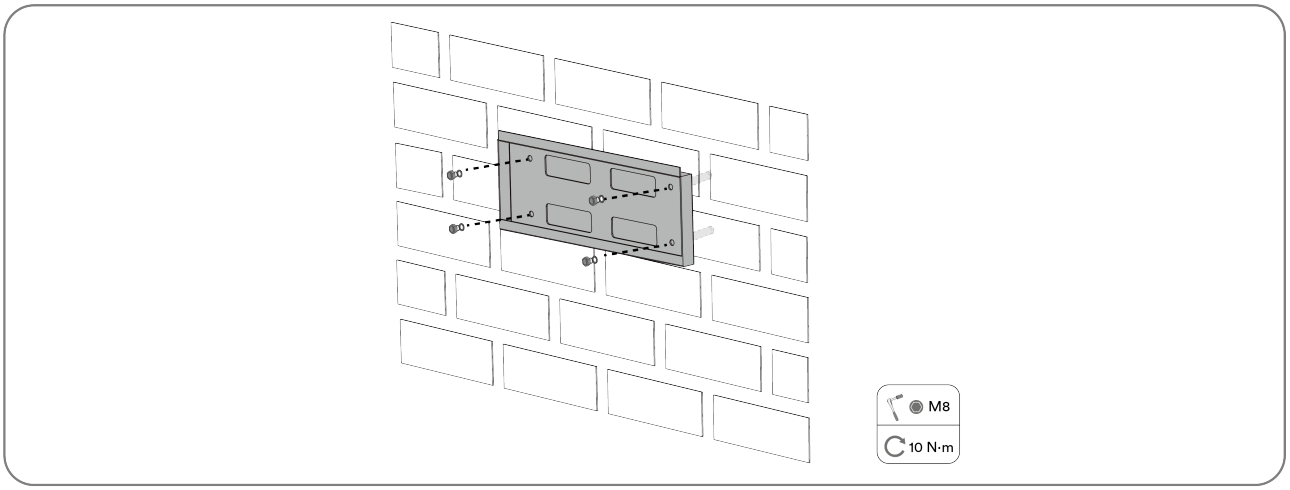
Step 2: Align the wall mounting bracket horizontally on the wall with the arrow upwards. Use a level to adjust the Angle and mark the location of the drill hole. Set the wall mounting bracket aside and drill the marked holes with the diameter of 10 mm. The depth of the holes should be about 70 mm. Keep the hammer drill bit perpendicular to the wall to avoid drilling inclined.



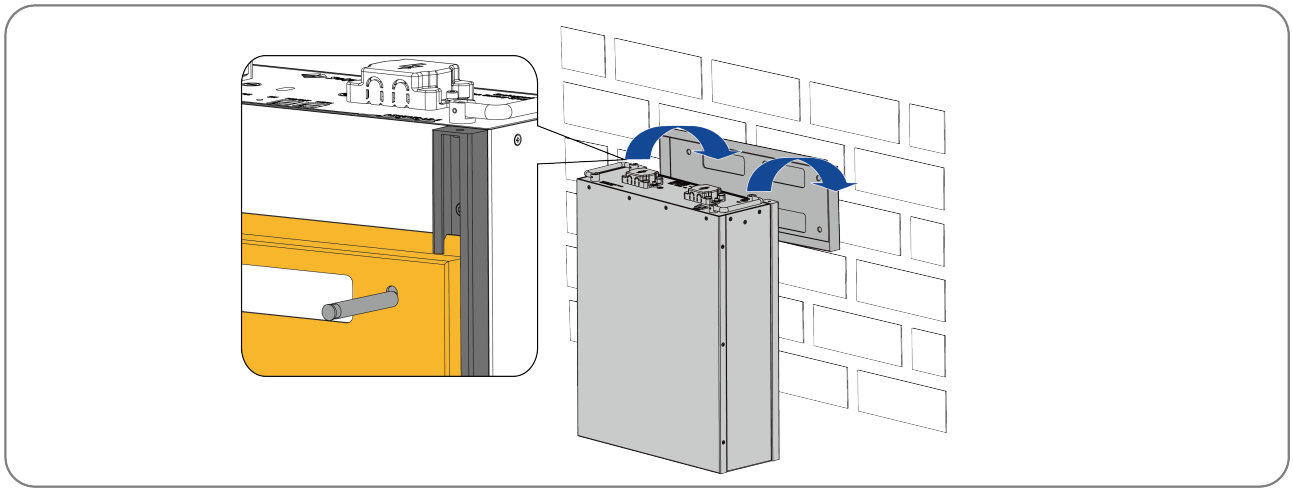
Step 3: Clean the dust in the hole, plug 4 expansion bolts into the hole, fix them with a rubber hammer, and tighten the nuts with a wrench, fix the bolt tail, and remove the nut, spring washer and flat washer and reserve them for the next step.

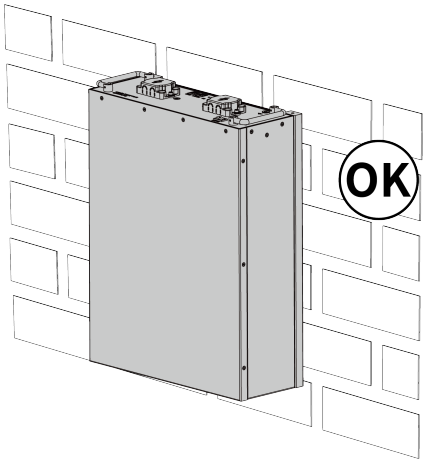


Step 4： Fix the mounting-bracket with the expansion bolts.



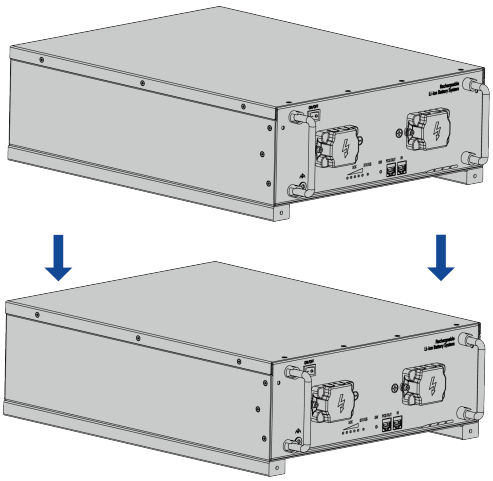
Step 5： Hang the battery to the mounting-bracket and ensure that the mounting ears perfectly engage with the mounting-bracket.



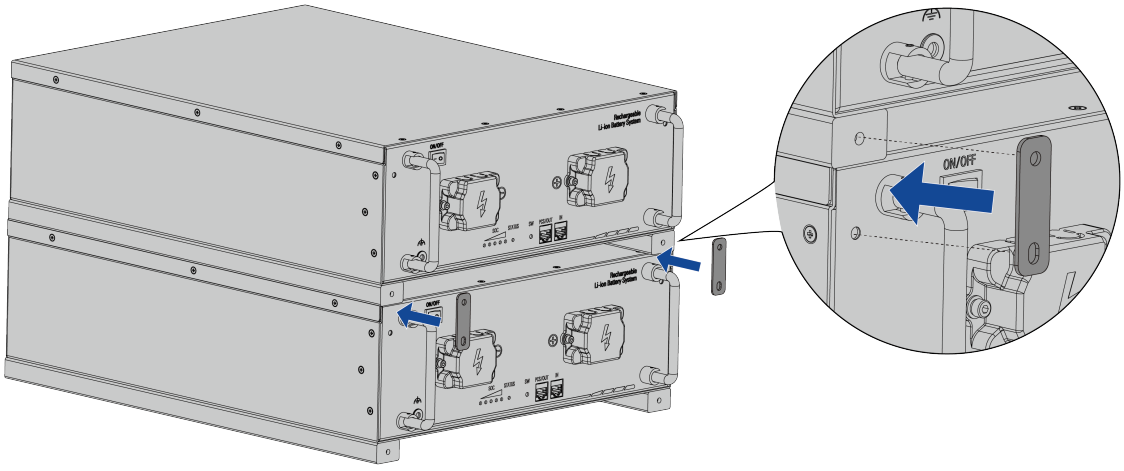


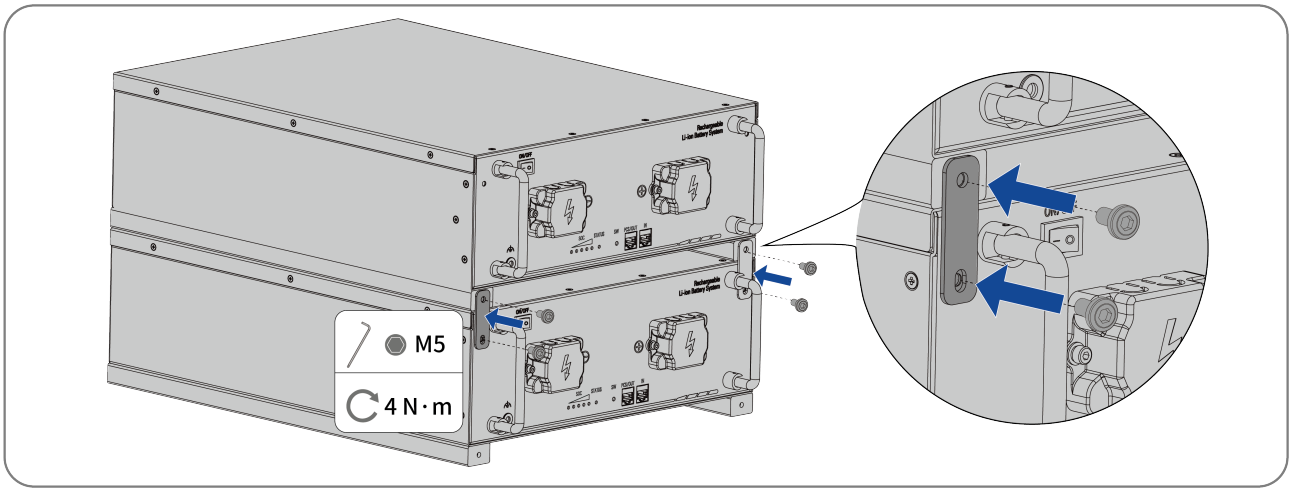
2-4 module

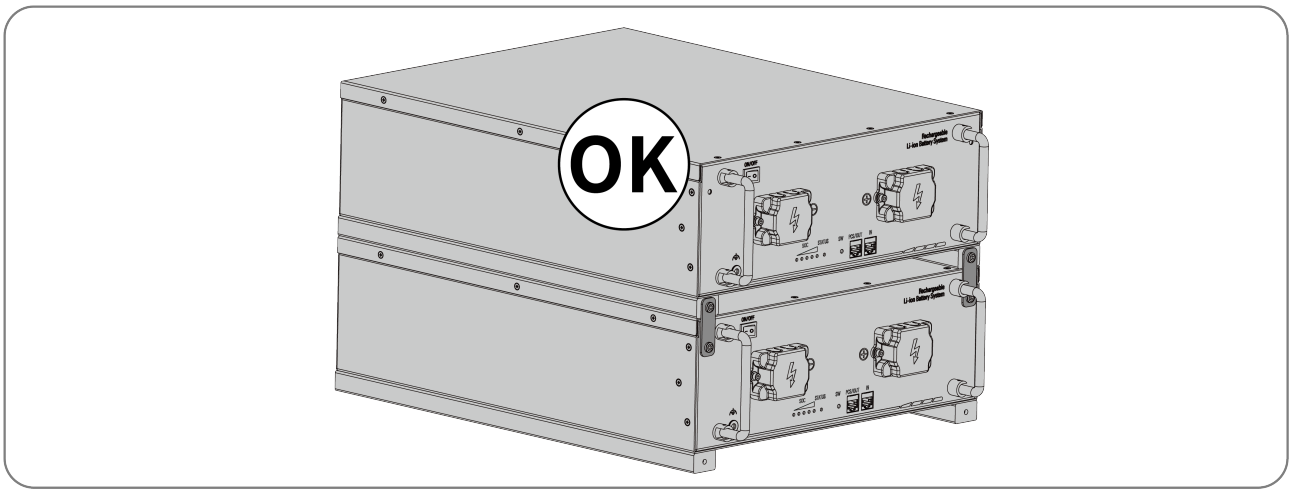
Step 1: Stack one battery on the battery.



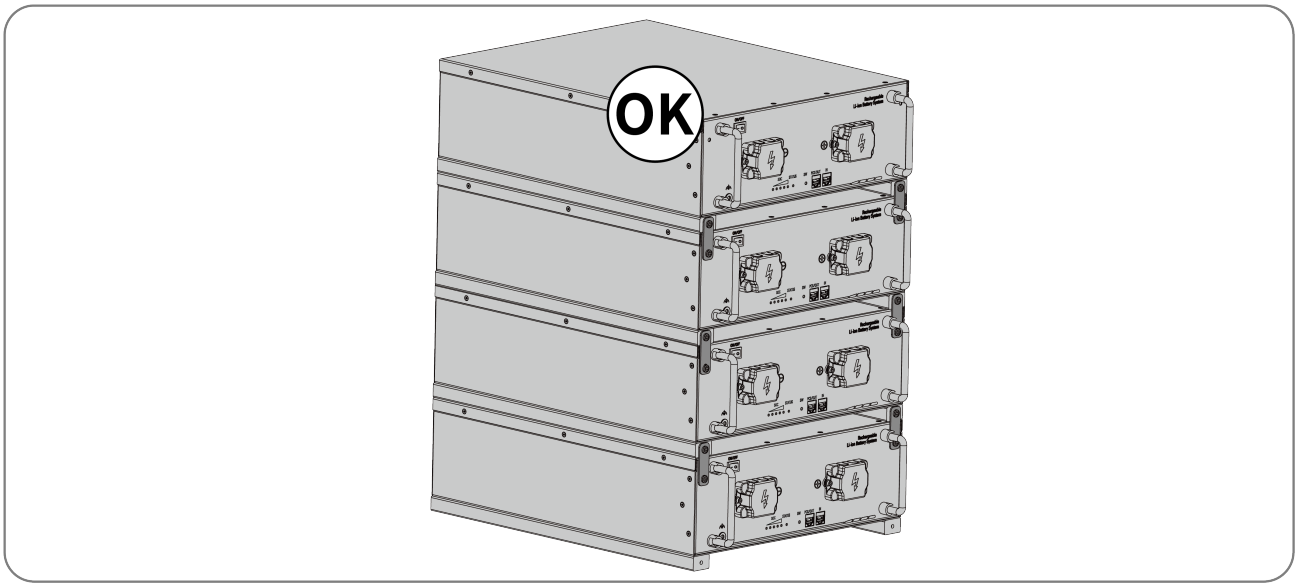
Step 2: Attach the module locking plates by aligning the module locking plate with the screw holes. Secure with four M5x10 screws, tightening to 4 N·m.







Step 5: Repeat the steps for the remaining battery modules.



6 Electrical connection

6.1 Overview of the connection area

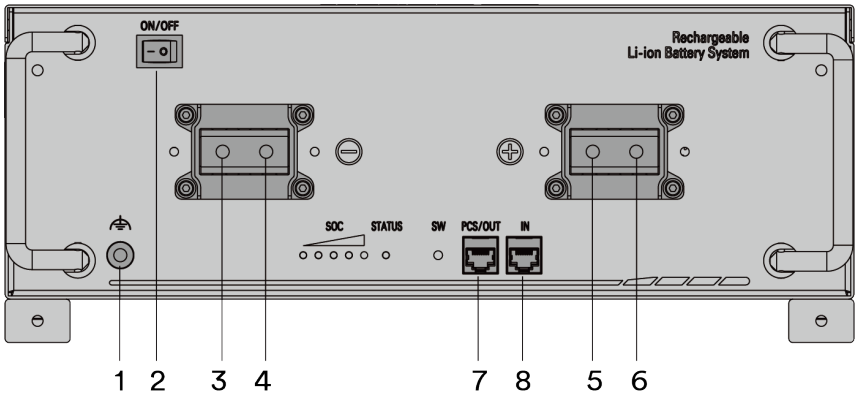


Figure shown here is for reference only. The actual product received may differ!

Object	Description
1	Grounding terminal
2	Power on/off switch
3	P-
4	P-
5	P+
6	P+
7	PCS/Out (Connect PCS/parallel communication connection)
8	In (Parallel communication connection)

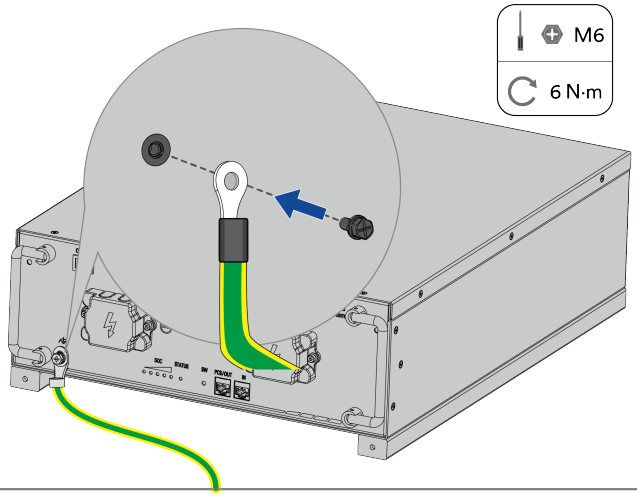
6.2 Connecting the grounding conductor

Procedure:

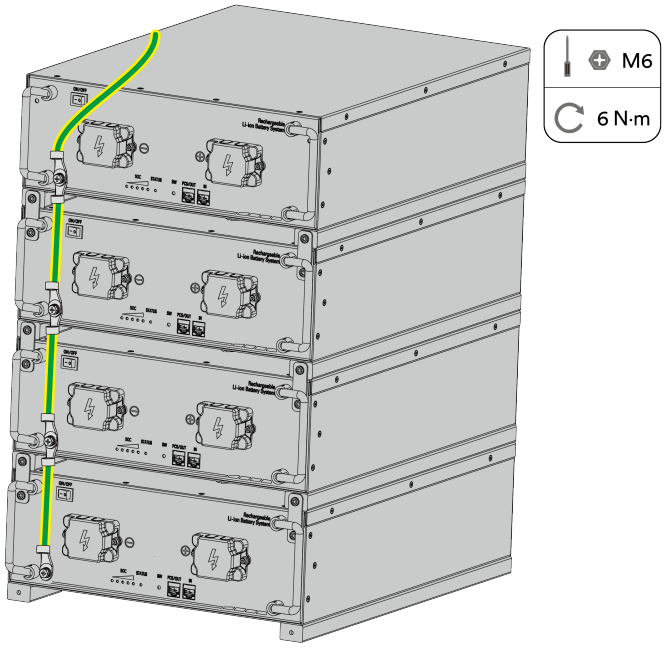
Step 1: Ensure the ON/OFF button switch of the battery is OFF.

Step 2: Attach the provided grounding cable using the M6×16 screw. Tighten with a Phillips screwdriver (torque: 6 N·m).

1 module connection



2-4 modules connection

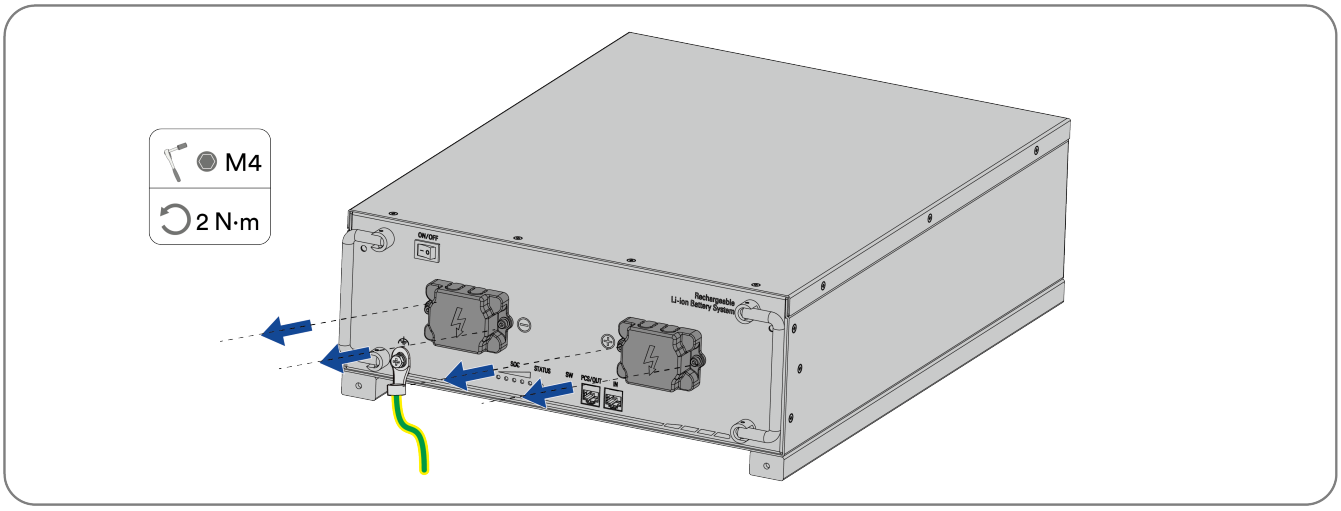


6.3 Connecting the power cable and network cable

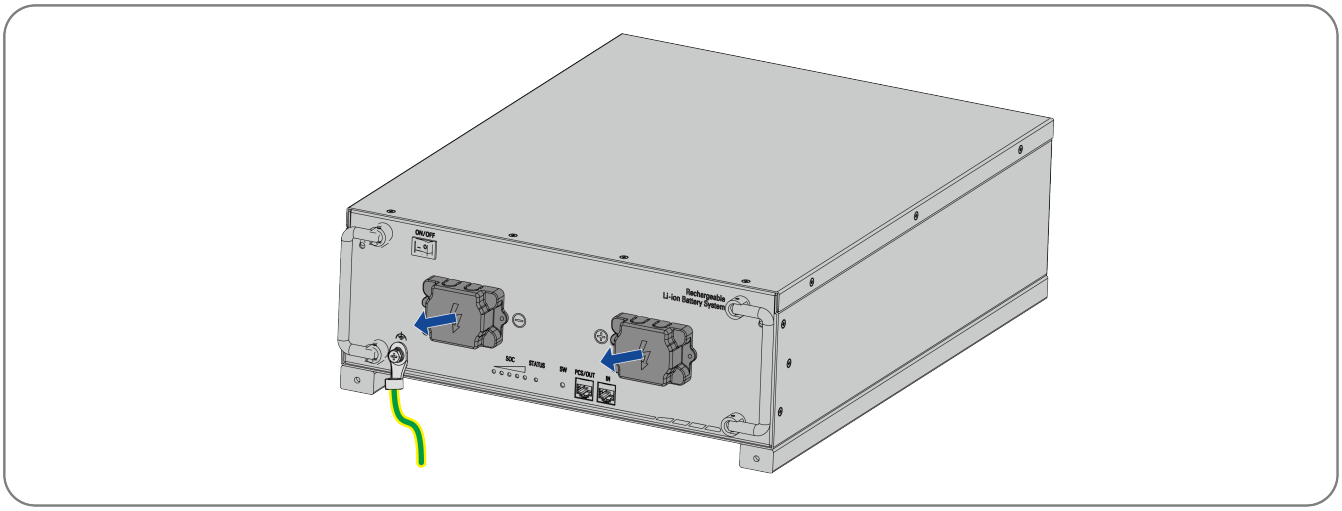
6.3.1 Connecting the power cable

1 module connection with only one set of output cable (120A max)

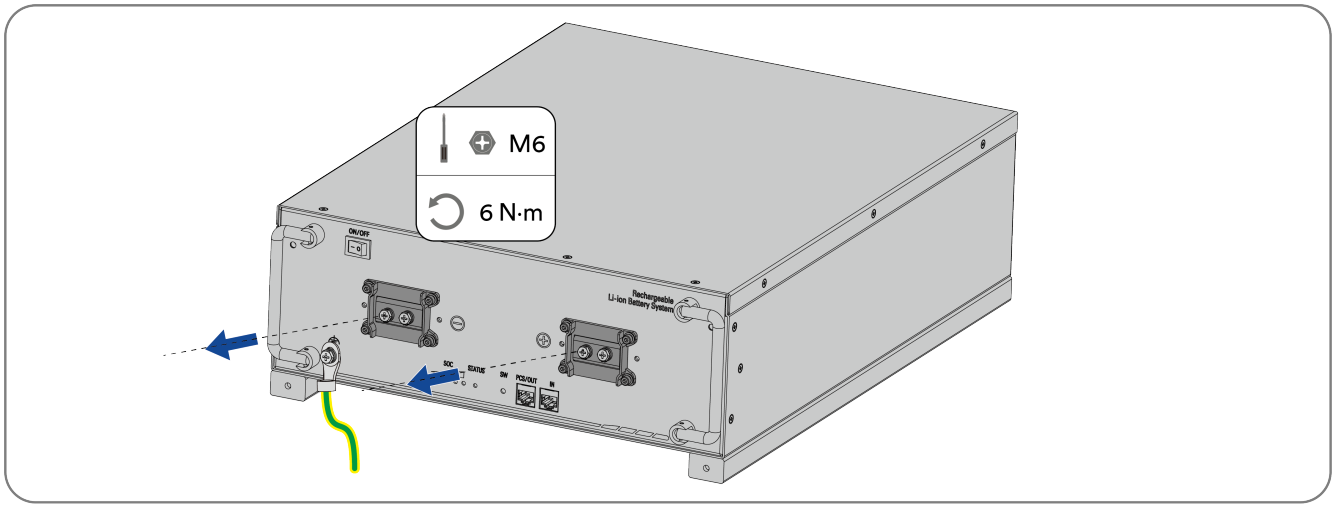
Step 1: Remove the screws on both sides of the two insulation covers.



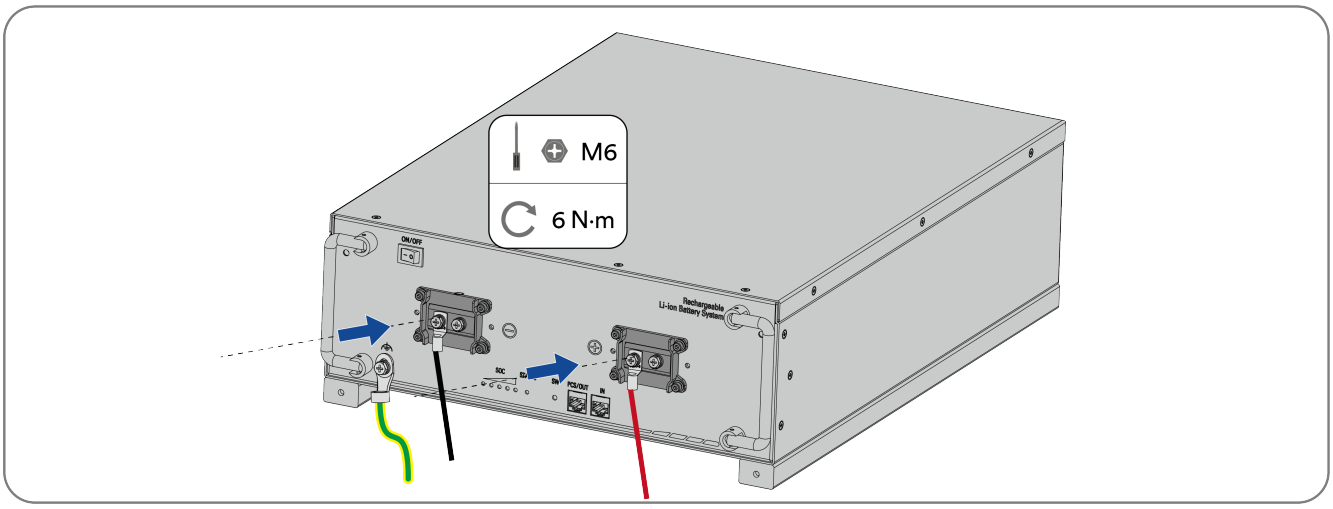
Step 2: Remove the insulation cover.



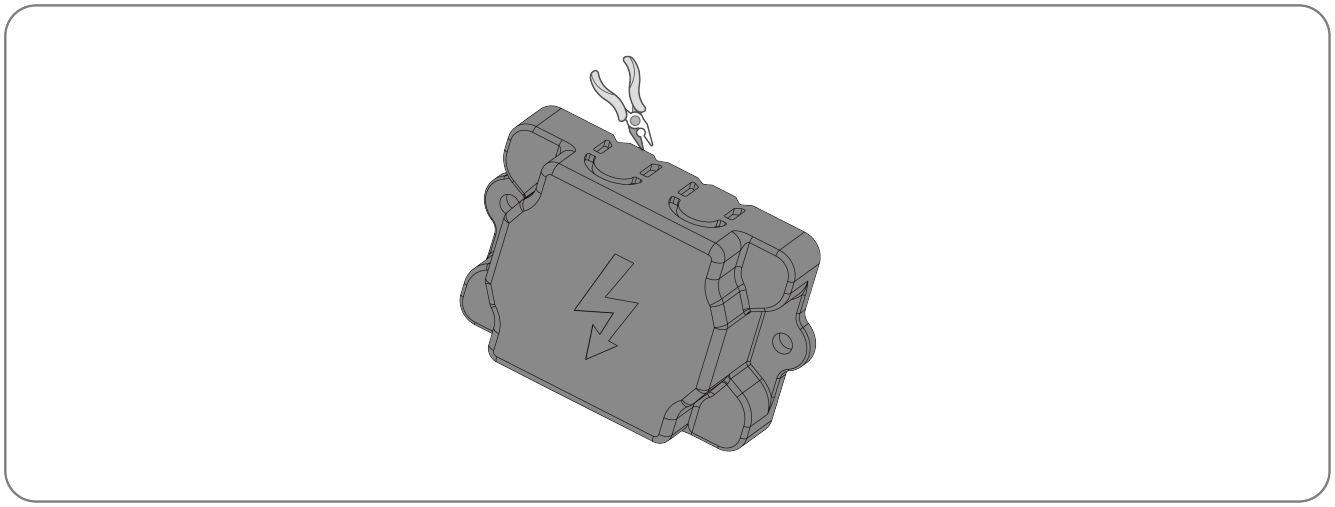
Step 3: Remove the screws.



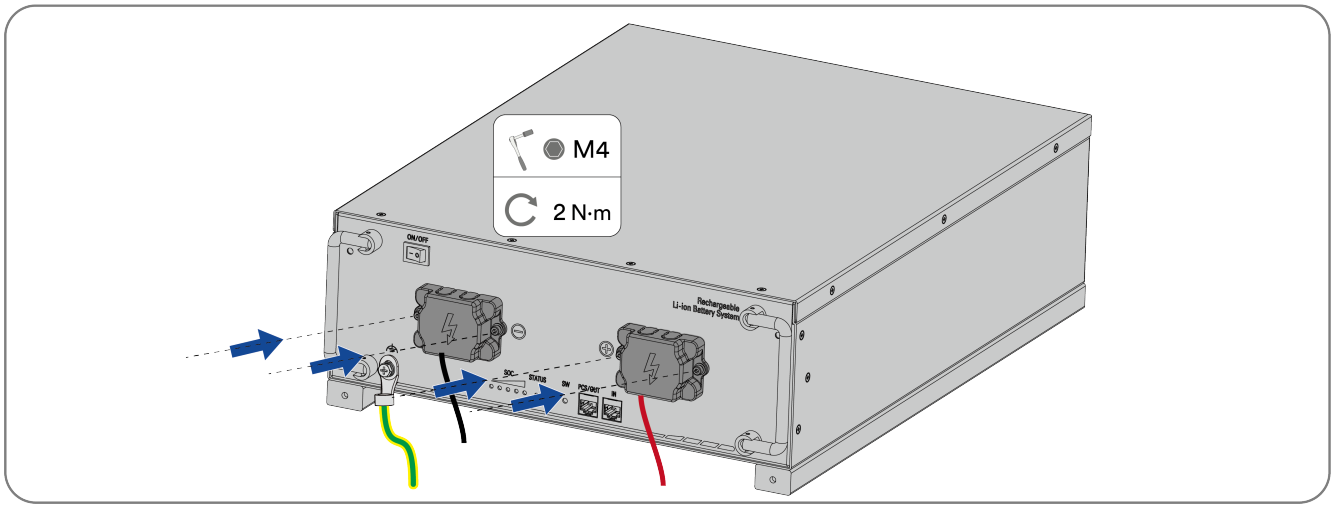
Step 4: Install input and output wiring.



Step 5： Cut the cable hole according to the wiring configuration (1 or 2 sets of power output cables).

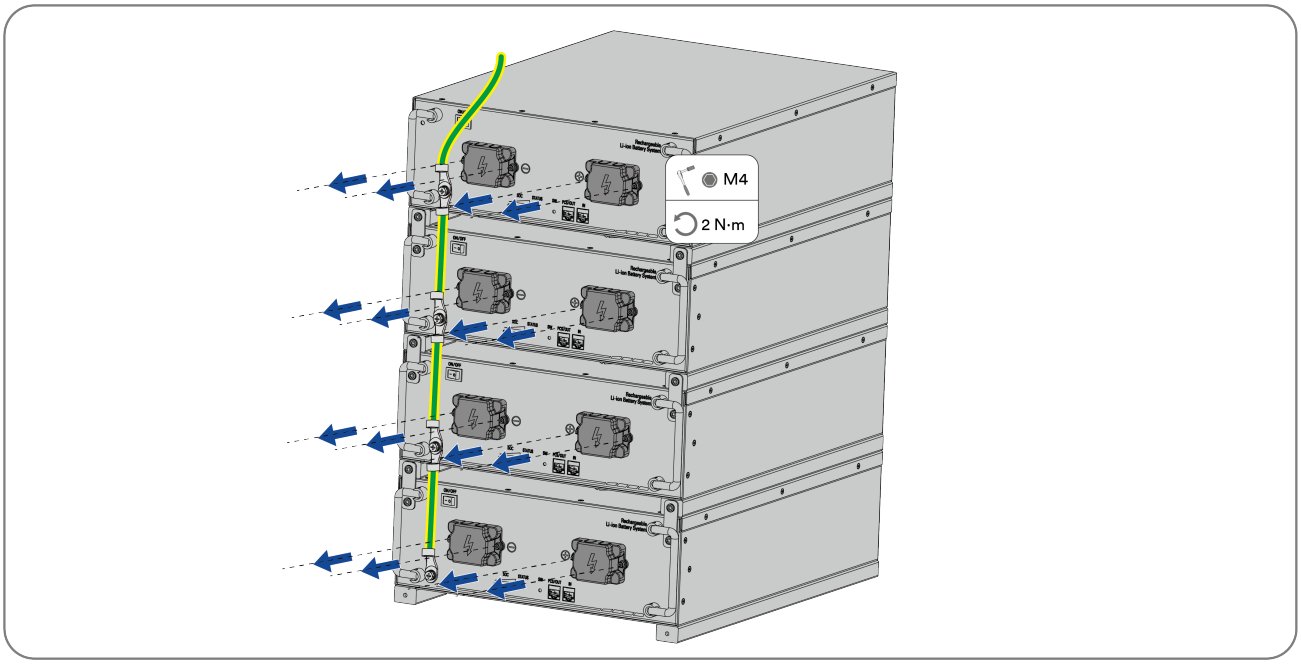


Step 6： Install the insulation cover and tighten the screws.

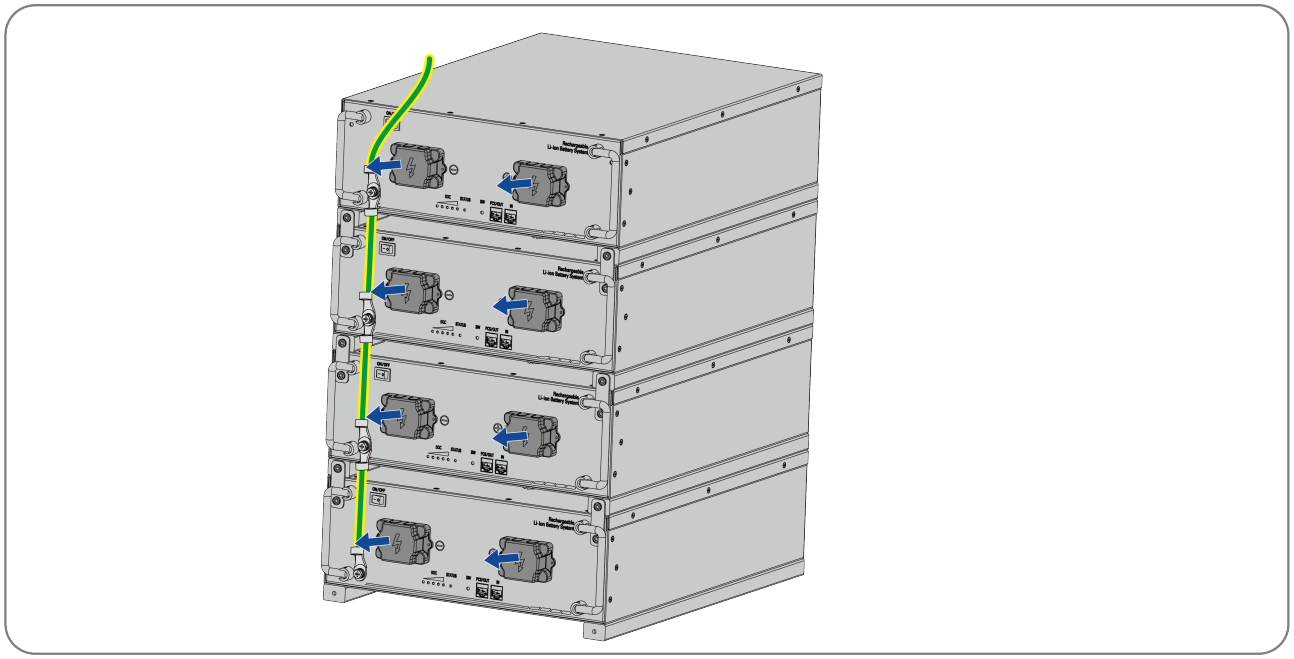


2-4 modules connection with two sets of output cables in parallel (210A max)

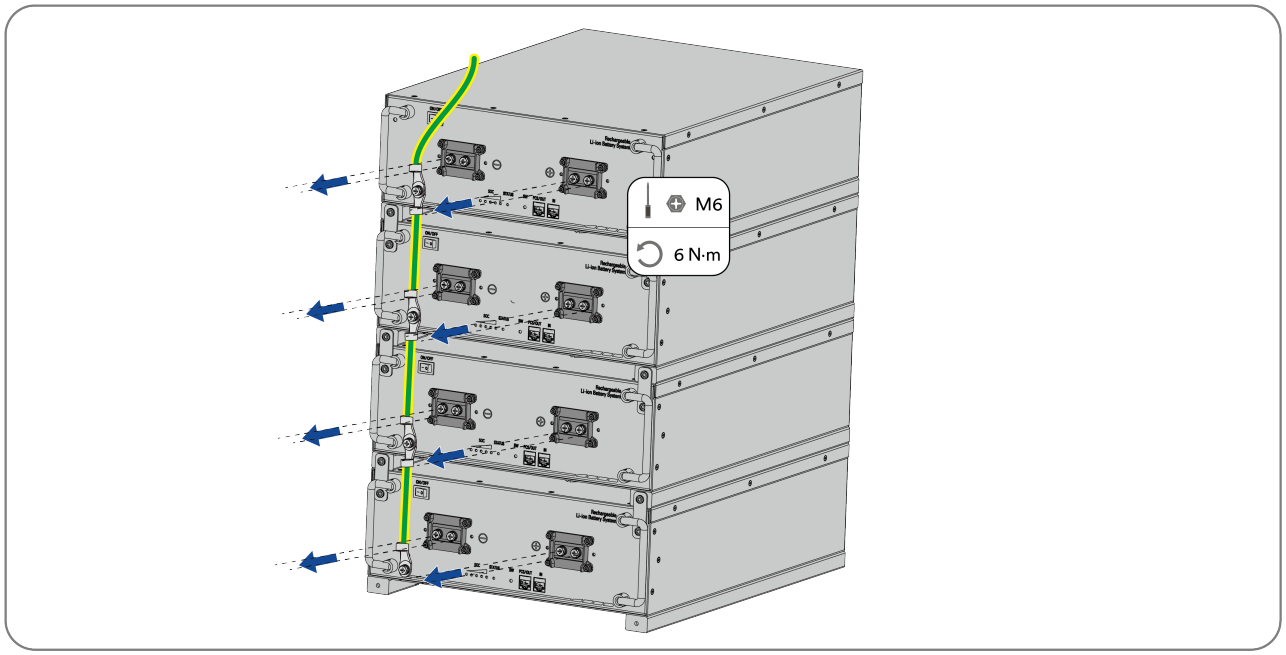
Step 1: Remove the screws on each layer of the battery module insulation cover.



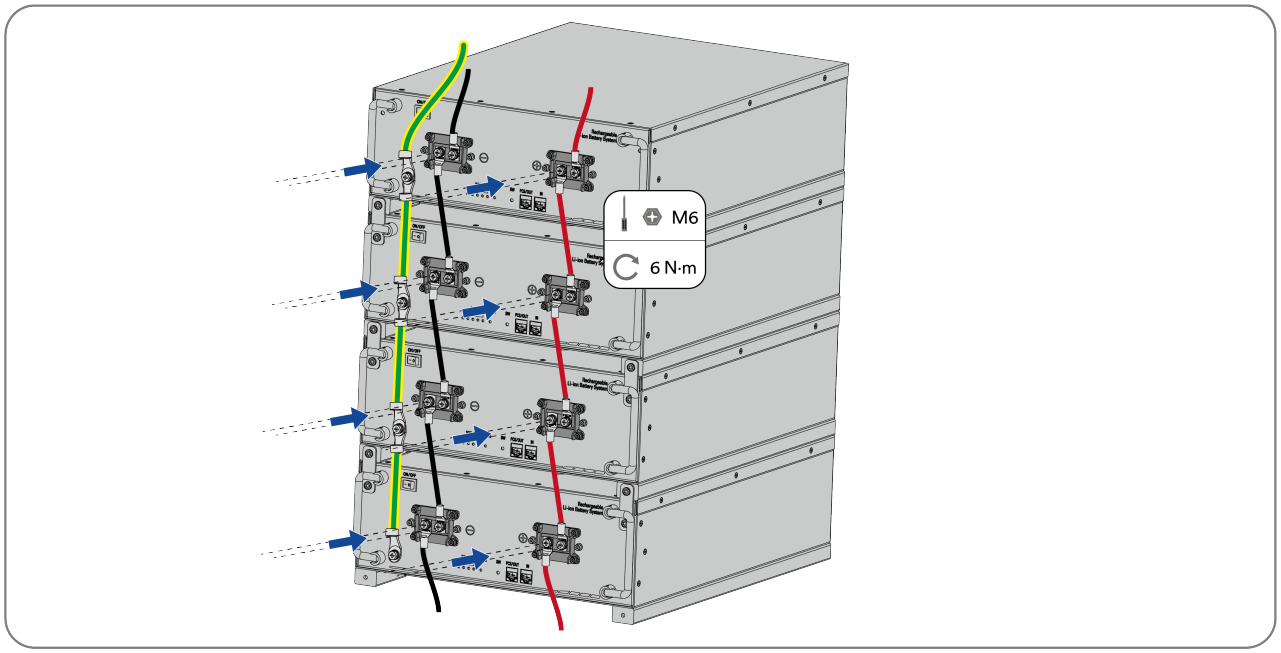
Step 2: Remove the insulation cover from each layer of battery modules.



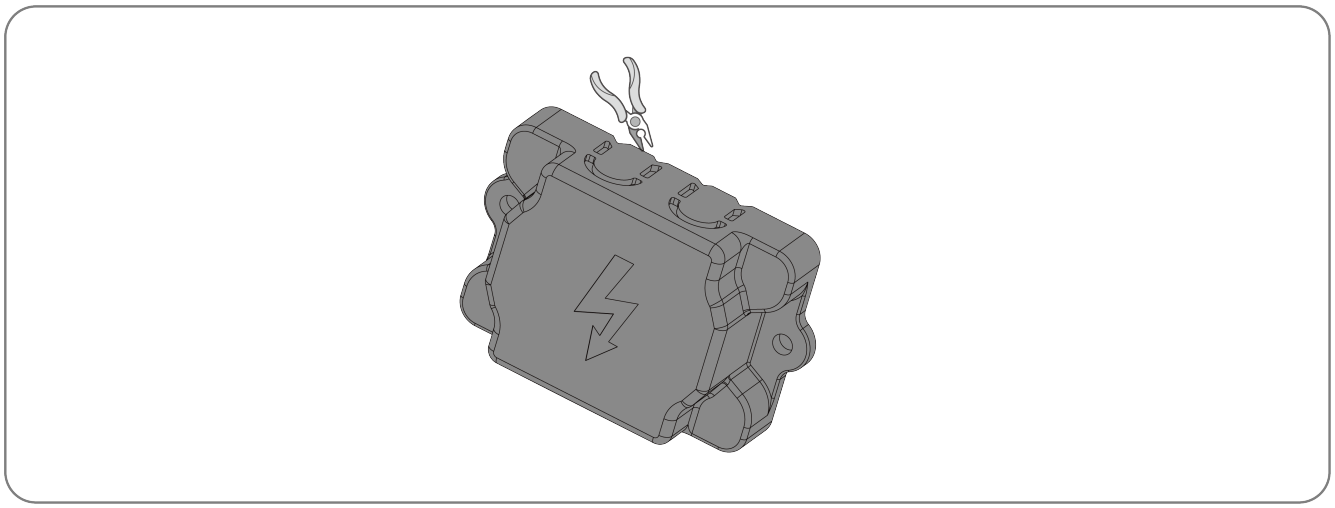
Step 3: Remove the screws.



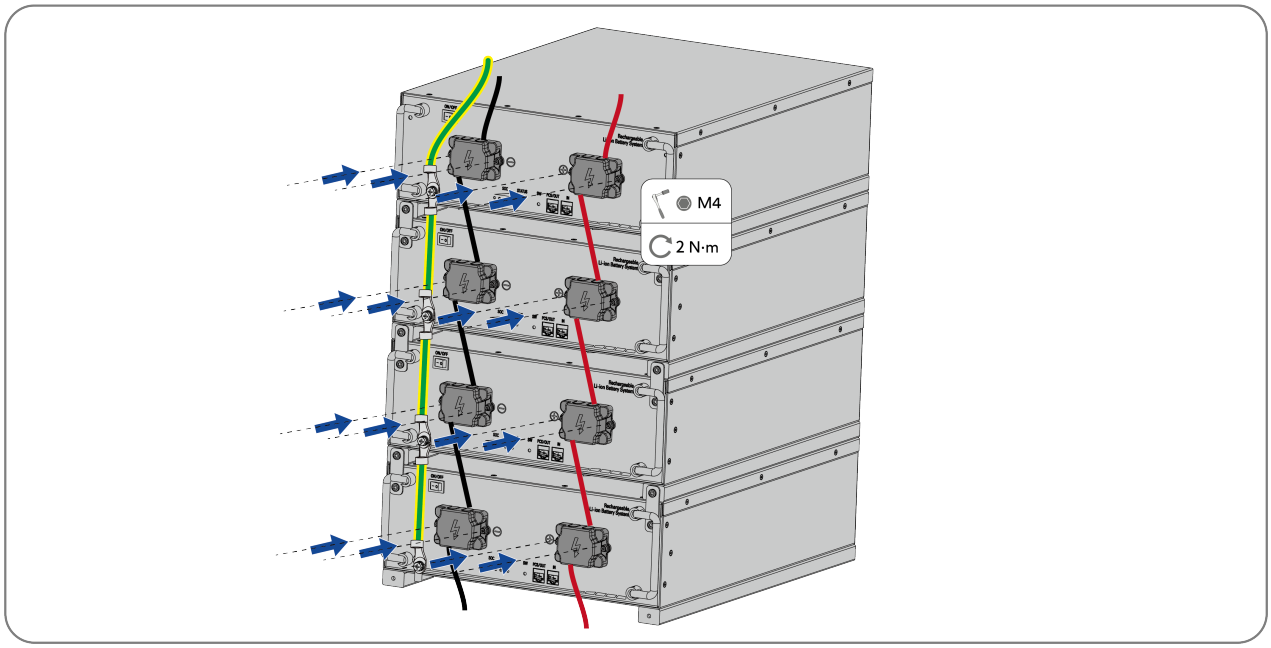
Step 4： Install input and output wiring.



Step 5： Cut the cable hole according to the wiring configuration (1 or 2 sets of power output cables).

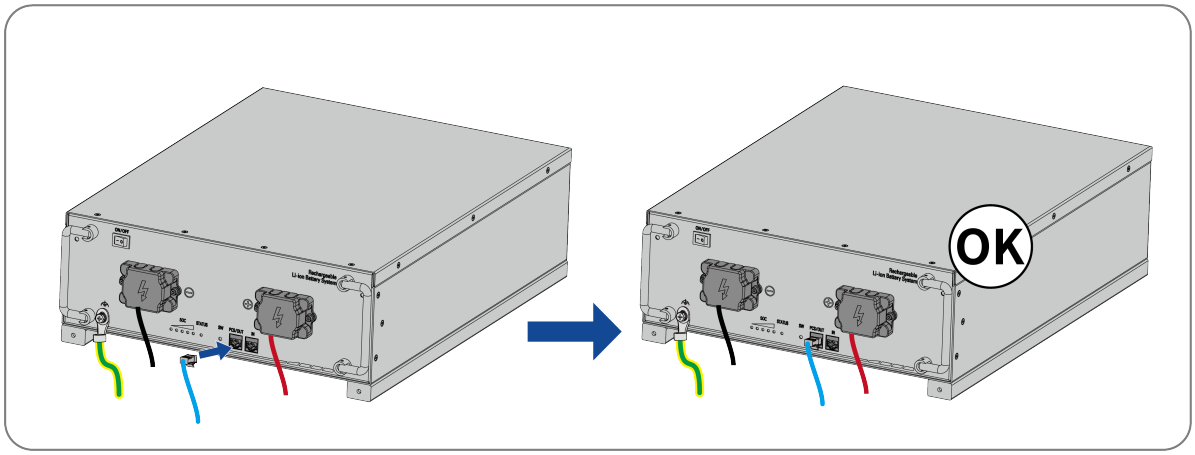


Step 6： Install the insulation cover and tighten the screws.

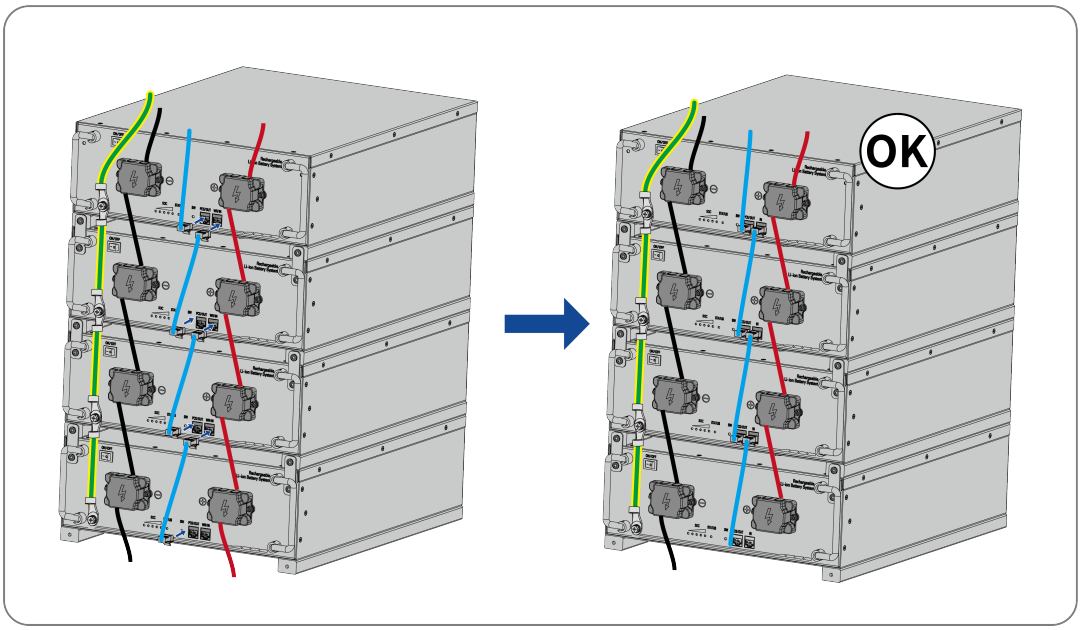


6.3.2 Connecting the network cable

1 module connection

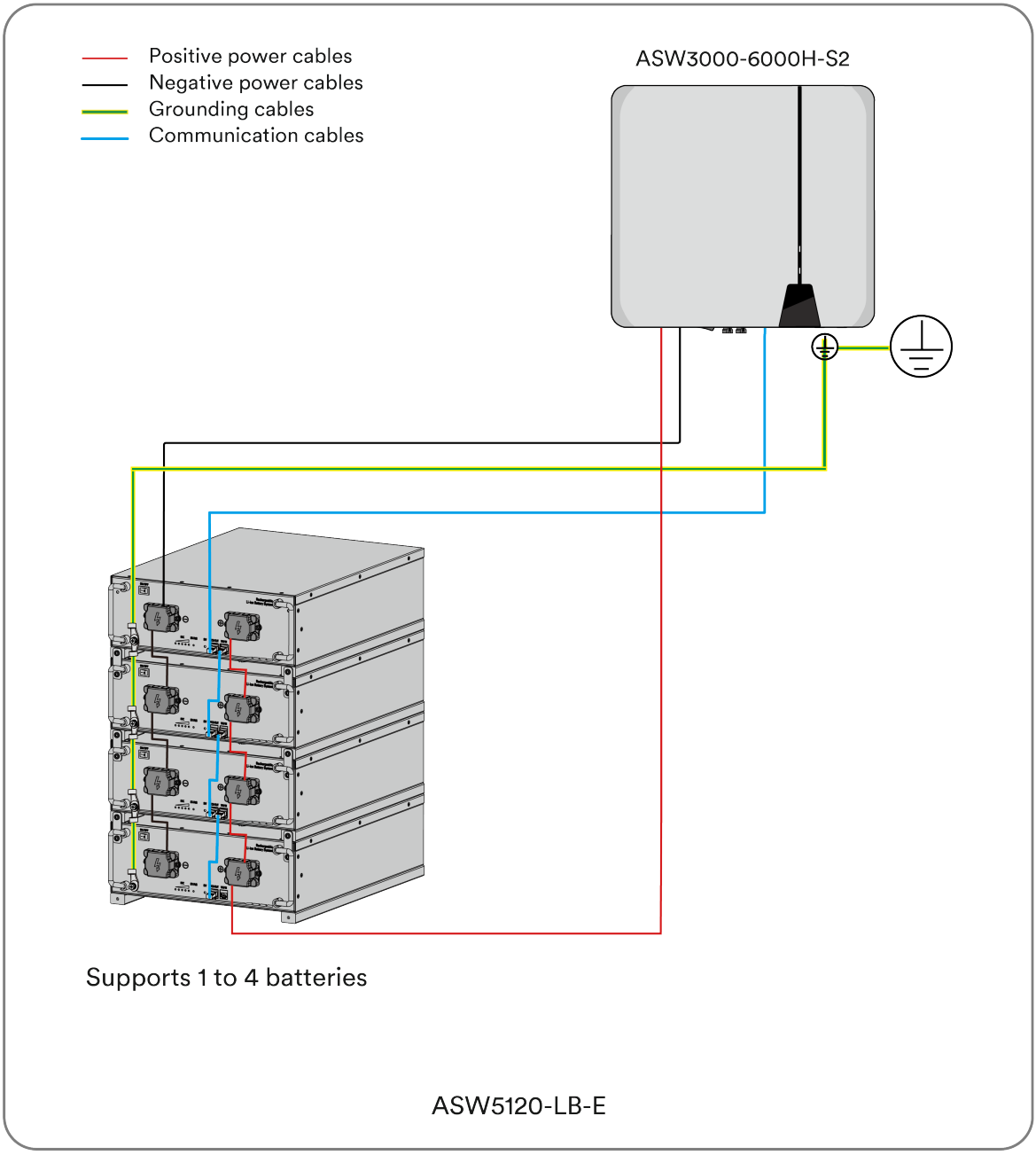


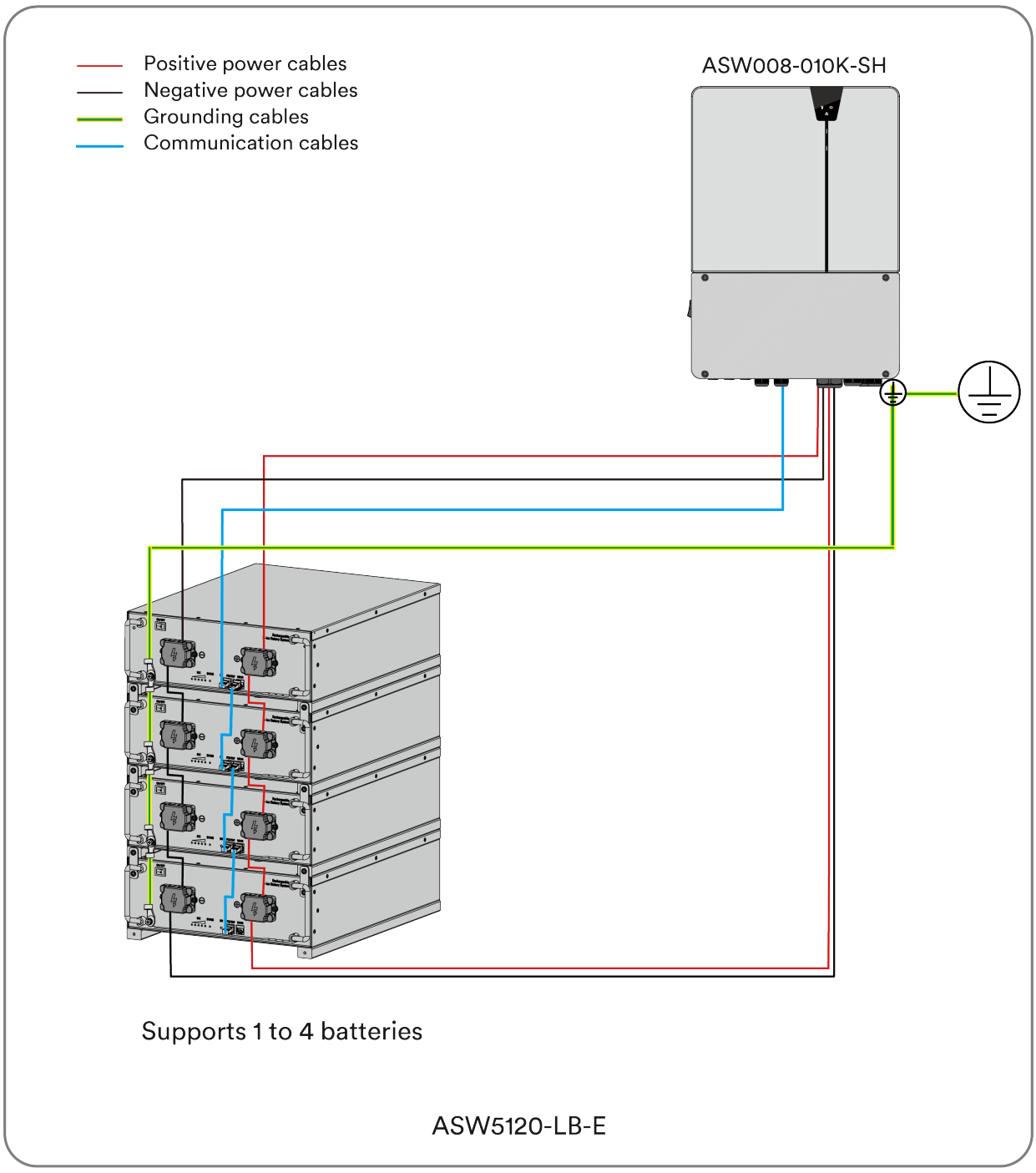
2.4 module connection



6.4 System wiring Diagram

Single system connection diagram





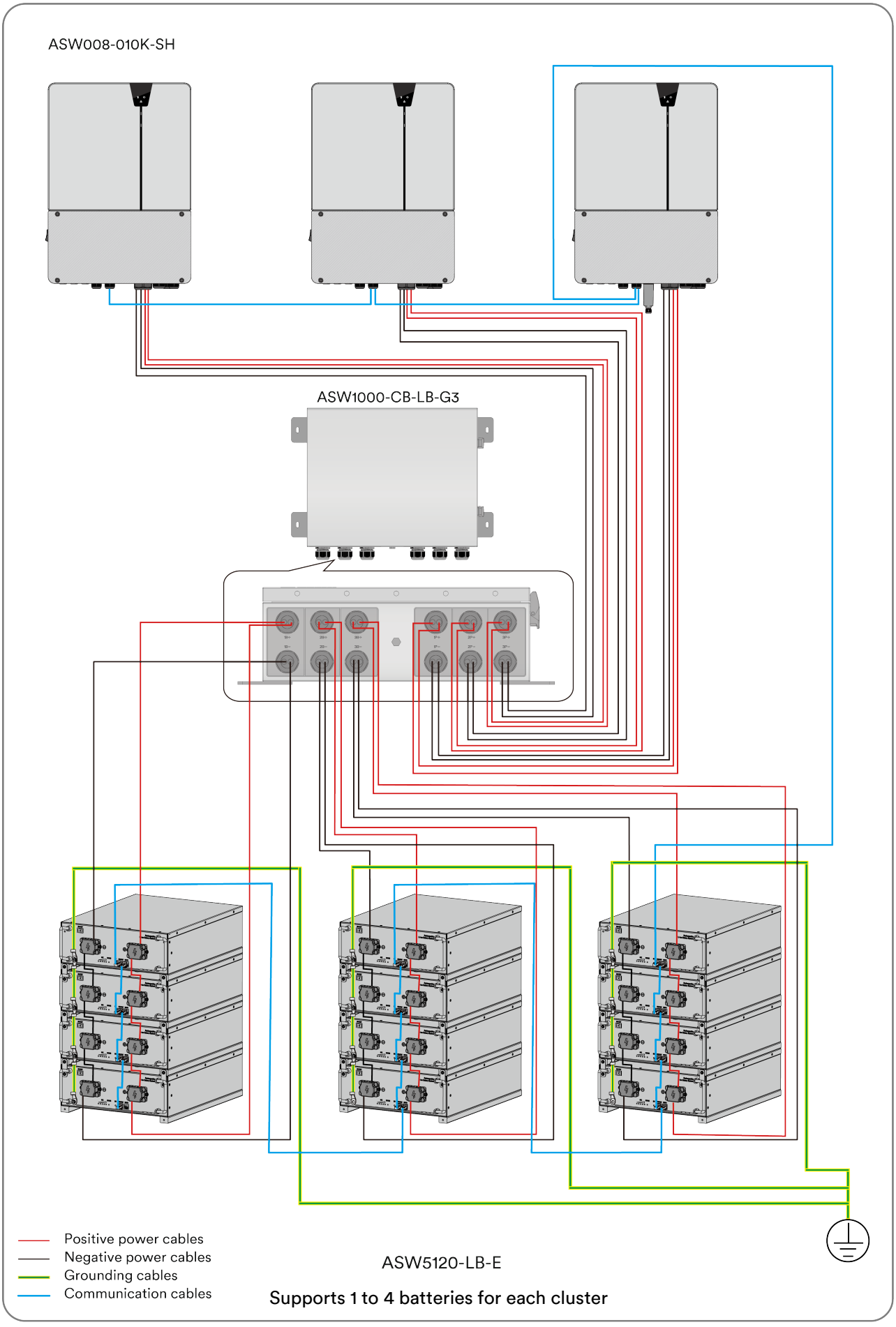
⚠ WARNING

Risk of cable damage due to overheating!

ASW008-010K-SH is a hybrid with max 210A DC current application, so two sets of output cable connections must be used.

Otherwise, the cable will overheat and damage, even breaking out of fire

Parallel system connection diagram



7 Commissioning and operation

7.1 Inspection before commissioning

Check the following items before commissioning the BESS:

- Ensure inverter is compatible with the battery.
- Ensure the inverter is correctly mounted as per Solplanet's guidelines, please refer to the inverter manual.
- Ensure the battery is properly installed and secured in accordance with this manual.
- Ensure the circuit breaker between the battery system and the inverter is off.
- Ensure the communication cables and DC cables are correctly and securely connected.
- Ensure the ground terminal on the BESS is grounded.
- Ensure the DC power cables have been installed with the correct polarity.

7.2 Commissioning procedure

If all of the items mentioned above have been met then proceed as follows to comission and start-up the battery for the first time:

Step 1： Press the ON/OFF switch button to ON, the lights will light up and the battery will start working.

Step 2： Check whether the battery indicator of the inverter is on.

Step 3： Start inverter according to inverter start-up procedure.

Step 4： Commission the inverter according to the inverter commissioning procedure using the Solplanet App.

Step 5： Read the battery status information using the Solplanet App to confirm that the BESS is communicating with the inverter, and observe the LED's on the BESS to determine the current status.

Recommended standard charging and discharging procedure as follow:

- Charge at a constant current with 0.6 C until the SOC reaches 95 %, then charge to 100 % SOC with 0.3 C at 25 °C.
- Discharge at a constant current with 0.6 C until the SOC reaches 0 % at 25 °C.

8 Decommissioning the product

⚠ CAUTION

Risk of injury due to weight of the battery module!

Injuries may result if the battery module is lifted incorrectly or dropped while being transported or installed.

- Lift and transport and lift the battery module carefully. Take the weight of the battery module into account.
- Always wear suitable personal protective equipment as per local regulations when working on the battery system.

⚠ DANGER

Danger to life from electric shock due to live DC cables or conductors at the battery system !

The DC cables connected to the battery system may be live. Touching the DC conductors or the live components leads to lethal electric shocks.

- Do not touch non-insulated cable ends.

Procedure:

Step 1： Switch off the inverter by first turning off the AC circuit breaker downstream of the AC output of the inverter and second by turning off the inverter DC switch.

Step 2： Switch off the BESS.

Step 3： Switch off the any external DC switches between the inverter and the BESS if there are any.

Step 4： Loosen the insulation cover screws and remove the insulation cover.

Step 5： Remove all cables from the BESS.

Step 6： Loosen the screws between the battery modules, and remove the module locking plates.

Before lifting the battery module, make sure to remove the screws on both sides

Step 7： Remove the battery module in sequence.

If the battery system is to be stored or shipped, pack the system using the original packaging or packaging that is suitable for the weight and dimensions of the system.

Dispose of the battery system in accordance with local battery disposal regulations.

9 Technical data

Model		ASW5120-LB-E			
Module quantity		1	2	3	4
Nominal Energy*1		5.12 kWh	10.24 kWh	15.36 kWh	20.48 kWh
Usable energy*2		4.6 kWh	9.2 kWh	13.8 kWh	18.4 kW
Nominal Voltage		51.2V			
Rated capacity		100AH			
Operating Voltage		43.2-57.6 V			
Dimension (W*H*D)		390*155*500 mm	390*310*500 mm	390*465*500 mm	390*620*500 mm
Battery weight		43 kg	86 kg	129 kg	172 kg
Max. Continuous charging current		100 A	200 A	210 A	210 A
Max. Continuous discharging current		100 A	200 A	210 A	210 A
Standard charge current		60A			
Standard discharge current		60A			
Peak charge/discharge power(singe module)		10.24 kW @ 3 s			
Communication		CAN			
Rated conditional short-circuit current		＜10 kA			
Operating temperature		Charge: 2 °C ~ 58°C Discharge: -18°C ~ 58°C			
Ingress protection rating		IP20			
Display		SOC and status indicator, LED indicator			
Installation		Indoor			
Max. Operating altitude		3000 m (>2000 m derating)			
Relative humidity		5%～95%RH, no condensing			
Cooling		Natural convection			
Cell type		Lithium-iron phosphate (LiFePO4)			
Life cycle		6000 times*3			
Round-trip efficiency		⩾ 95 %			
Standard and Certification	Safety	IEC62619, IEC60730			
	EMC	IEC61000-6-1, IEC61000-6-3			
	Transportation	UN38.3			

*1. Nominal energy is defined under the following conditions: battery voltage 43.2 ~ 57.6 V, 0.2 C charge & discharge at +25 °C.

*2. Usable energy is defined under the following conditions: 90% DOD, 0.2C charge & discharge at +25 °C.

*3. Life cycle is defined under the following conditions: 80 % DOD, EOL70%, 0.2C charge & discharge at 25 °C (One cycle a day).

10 Troubleshooting

When the yellow LED indicator solid on, it indicates that the battery is in an alarm state.

When the red LED indicator solid on, it indicates that the battery is in a fault state.

When the yellow LED indicator blinking, it indicates a battery communication loss.

If the red indicator solid on, the battery is faulty. Turn off the battery immediately and contact the manufacturer for after-sales service.

11 Maintenance

Cleaning

It is recommended to clean the battery system periodically. If the enclosure is dirty, please use a soft, dry brush or a dust collector. Liquids such as solvents, abrasives, or corrosive liquids should not be used to clean the enclosure.

Maintenance

The battery module should be stored in an environment with a temperature range between -20°C ~ +45°C and charged regularly according to the table below with no more than 0.5C to the SOC of 50% after a long time of storage.

Temperature	Relative humidity	Storage time	Original SOC
Below -20°C	/	Not allowed	/
0~25°C	35%~85%	⩽ 6 months	25%⩽SOC⩽50%
-20~45°C	35%~85%	⩽ 1 months	25%⩽SOC⩽50%
Above 45°C	/	Not allowed	/

NOTICE

Damage to the system due to under voltage!

- Charge the over-discharged system within seven days when the temperature is above 25°C.
- Charge the over-discharged system within fifteen days when the temperature is below 25°C.

12 Recycling and disposal

Dispose of the packaging and replaced parts according to the rules applicable in the country where the device is installed.



Do not dispose of the product together with the household waste but in accordance with the disposal regulations for electronic waste applicable at the installation site.

13 EU declaration of conformity

Within the scope of the EU directives:

-Electromagnetic compatibility directive 2014/30/EU

(L 96/79-106, March 29, 2014) (EMC)

-Low voltage directive 2014/35/EU (L 96/357-374, March 29, 2014) (LVD)

Restriction of the use of certain hazardous substances 2011/65/EU

(L 174/88, June 8, 2011) and 2015/863/EU (L 137/10, March 31, 2015) (RoHS)

AISWEI New Energy Technology (Yangzhong) Co., Ltd. confirms here with that the products described in this document are in compliance with the fundamental requirements and other relevant provisions of the above mentioned directives.

The entire EU Declaration of Conformity can be found at www.solplanet.net.

14 Service and warranty

If you have any technical problems concerning our products, please contact Solplanet service.

We require the following information in order to provide you with the necessary assistance:

- Battery serial numbers
- Battery type and model
- Inverter device type
- Inverter serial number
- Type and number of connected PV modules
- Mounting location
- Installation date

Warranty terms and conditions can be downloaded at www.solplanet.net.

When the customer needs warranty service during the warranty period, the customer must provide a copy of the invoice, factory warranty card, and ensure the electrical label of the battery is legible. If these conditions are not met, Solplanet has the right to refuse to provide with the relevant warranty service.

15 Contact

EMEA

Service email: service.EMEA@solplanet.net

APAC

Service email: service.APAC@solplanet.net

LATAM

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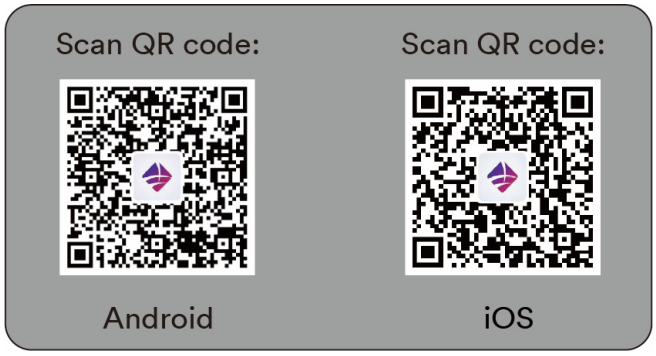
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