

## **BAT Series 61.4-112.6kWh C&I Battery System**

- **GW61.4-BAT-AC-G10**
- **GW92.1-BAT-AC-G10**
- **GW102.4-BAT-AC-G10**
- **GW112.6-BAT-AC-G10**

# **Maintenance Manual**

## Change History

No.	Version	Description	Date
1	V1.0	Initial release	2025/09/30

# Table of Contents

1 Safety Precautions .....	4
1.1 General Safety .....	4
1.2 Personnel Requirements .....	4
1.3 System Safety .....	5
1.4 Battery Safety .....	6
1.5 Safety Symbols and Certification Marks .....	8
2 Routine Maintenance .....	10
2.1 Preparation before maintenance .....	10
2.2 Power OFF .....	11
2.3 Regular maintenance .....	11
2.4 Fault Maintenance Process and Regular Inspection Process .....	14
2.5 Fault Location methods .....	16
2.6 Verification Method .....	16
3 Replacing Battery Packs .....	16
4 Replacing Main Control Box .....	18
5 Replacing Air Conditioner .....	20
6 Replacing aerosol .....	22
7 Replacing Emergency Stop Switch .....	24
8 Replacing Indicator Panel .....	24
9 Replacing Slave Board .....	25
10 Replacing Fan .....	26
11 Replacing Air Conditioner Auxiliary Switch .....	27
12 Replacing Access Control Switch .....	28
13 Replacing Smoke Detector and Temperature Detector .....	29

# 1 Safety Precautions

Please read this document carefully and keep it in a safe place for future reference. Please strictly follow these safety instructions in the user manual during the operation.

## WARNING

The products are designed and tested strictly to comply with related safety rules. Read and follow all the safety instructions and cautions before any operations. Improper operation might cause personal injury or property damage as the products are electrical equipment.

## 1.1 General Safety

### NOTICE

- The information in this user manual is subject to change due to product updates or other reasons. This guide cannot replace the product labels or the safety precautions in the user manual unless otherwise specified. All descriptions here are for guidance only.
- Read through this document before installation to learn about the product and the precautions.
- All operations should be performed by trained and knowledgeable technicians who are familiar with local standards and safety regulations.
- Use insulating tools and wear personal protective equipment (PPE) when operating the equipment to ensure personal safety. Wear anti-static gloves, cloths, and wrist strips when touching electronic devices to protect the equipment from damage.
- Unauthorized dismantling or modification may damage the equipment, the damage is not covered under the warranty.
- Strictly follow the installation, operation, and configuration instructions in this guide and relative user manual. The manufacturer shall not be liable for equipment damage or personal injury if you do not follow the instructions. <https://en.goodwe.com/warranty>

## 1.2 Personnel Requirements

### NOTICE

- Personnel who install or maintain the equipment must be strictly trained, learn about safety precautions and correct operations.

- Only qualified professionals or trained personnel are allowed to install, operate, maintain, and replace the equipment or parts.

## 1.3 System Safety

### DANGER

- Disconnect the upstream and downstream switches to power off the equipment before any electrical connections. Do not work with power on. Otherwise, an electric shock may occur. Do not work with power on. Otherwise, an electric shock may occur.
- Install a breaker at the voltage input side of the equipment to prevent personal injury or equipment damage caused by energized electrical work.
- All operations such as transportation, storage, installation, use and maintenance shall comply with applicable laws, regulations, standards and specifications.
- Perform electrical connections in compliance with local laws, regulations, standards and specifications. Including operations, cables, and component specifications.
- Connect cables using the connectors included in the package. The manufacturer shall not be liable for equipment damage if other connectors are used.
- Ensure all cables are connected tightly, securely, and correctly. Inappropriate wiring may cause poor contacts and damage the equipment.
- The PE cables must be connected and secured properly before working on the equipment. Otherwise an electric shock may occur.
- To protect the equipment and components from damage during transportation, ensure that the transportation personnel are professionally trained. All operations during the transportation have to be recorded. The equipment shall be kept in balance, thus avoiding falling down.
- The equipment is heavy. Please equip the corresponding personnel according to its weight, so that the equipment does not exceed the weight range of the human body can carry, and cause personnel injury.
- Keep the equipment stable to avoid dumping, which can result in equipment damage and personal injuries.
- Do not wear any metal thing when moving, installing, or commissioning the equipment. Otherwise, it will cause electrical shock or damages to the equipment.
- Do not put any metal parts on the equipment, otherwise it will cause electrical shock.
- When the device is short circuited, do not approach or touch the device and please turn off the power immediately.

### WARNING

- Do not apply mechanical load to the terminals, otherwise the terminals can be damaged.
- If the cable bears too much tension, the connection may be poor. Reserve a certain length of the cable before connecting it to corresponding ports.
- Tie the same type cables together, and place cables of different types at least 30mm apart. Do not place the cables entangled or crossed.
- Place the cables at least 30mm away from the heating components or heat sources, otherwise the insulation layer of the cables may be aging or broken due to high temperature.

## 1.4 Battery Safety



- The battery system exists high voltage during the equipment running. Keep Power Off before any operations to avoid danger. Strictly follow all safety precautions outlined in this manual and safety labels on the equipment during the operation.
- The battery system is a high voltage system. Do not touch or operate it. Keep away from it. Only professionals are allowed! Do not touch or operate without permission.
- The energy storage system consists of heavy equipment. Please use appropriate tools and take protective measures when installing and maintaining the system. Improper operations will cause personal injuries or equipment damage.
- Do not disassemble, modify, or replace any part of the battery or the power control unit without official authorization from the manufacturer. Otherwise, it will cause electrical shock or damages to the equipment, which shall not be borne by the manufacturer.
- The equipment must be installed on concrete or other non-combustible surfaces, ensuring that the foundation is level, firm, flat, dry, has sufficient load-bearing capacity, and no dents or tilts are allowed.
- Do not hit, pull, drag, squeeze, step on or pierce it shell with sharp object or put the battery into fire. Otherwise, the battery may explode.
- Do not place the battery in a high temperature environment. Make sure that there is no direct sunlight and no heat source near the battery. When the ambient temperature exceeds 60 °C, it will cause fire.
- Do not use the battery or the power control unit if it is defective, broken, or damaged.
- Damaged battery may leak electrolyte.
- Do not move the battery system while it is working.
- Pay attention to the negative and positive during installation to avoid reverse polarity connection. Otherwise the short circuit may cause personal injuries and damage to the

equipment.

- It is strictly prohibited to short-circuit the positive and negative terminals of the battery. A short circuit in the battery may cause personal injury. The instantaneous high current caused by a short circuit can release a large amount of energy and may cause a fire.
- When operating the equipment, ensure that it is not damaged and the system is functioning properly, otherwise there may be a risk of electric shock and fire.
- During the operation of the equipment, do not open the cabinet door or touch any wiring terminals or components. Otherwise, there is a risk of electric shock.
- Do not touch the running equipment to avoid being hurt as its temperature may exceed 60°C. Do not install the equipment at a place within non-professionals' reach.
- Do not pull or plug the terminals and connecting cables during the running of the BMS. Otherwise it may cause dangers to the safety.
- Power off the BMS the moment there is abnormality happening during the running. Contact the related personnel as soon as possible.



## WARNING











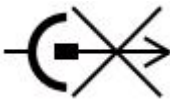

- Charge the battery promptly after discharging, otherwise it may cause excessive discharge and damage to the battery.
- Do not dis-/charge the battery exceeding the nominal dis-/charge current.
- Factors such as: temperature, humidity, weather conditions, etc. may limit the battery's current and affect its load.
- Contact after-sale service immediately if the battery is not able to be started. Otherwise, the battery might be damaged permanently.
- Contact After-sales Service if the battery module shall be replaced or added.
- Do not charge the battery at lower temperature. Otherwise it may decrease the capacity of the BMS.
- Do not put unrelated items into any part of the battery system.

## 1.5 Safety Symbols and Certification Marks



- All labels and warning marks should be visible after the installation. Do not cover, scrawl, or damage any label on the equipment.
- The following box warning label instructions are for reference only, The following descriptions are for reference only.

No.	Symbol	Descriptions
1		Potential risks exist. Wear proper PPE before any operations.
2		HIGH VOLTAGE HAZARD Disconnect all incoming power and turn off the product before working on it.
3		High-temperature hazard. Do not touch the product under operation to avoid being burnt.
4		Operate the equipment properly to avoid explosion.
5		Batteries contain flammable materials, beware of fire.
6		The equipment contains corrosive electrolytes. In case of a leak in the equipment, avoid contact the leaked liquid or gas.
7		Delayed discharge. Wait 5 minutes after power off until the components are completely discharged.
8		Keep the equipment away from open flame or ignition source.
9		Read through the user manual before any operations.

10		Wear personal protective equipment during installation, operation and maintaining.
11		Do not dispose of the System as household waste. Deal with it in compliance with local laws and regulations, or send it back to the manufacturer.
12		No stepping.
13		Grounding point.
14		Recycle regeneration mark. Put the battery in the right place and recycle it in compliance with local environmental regulations.
15		CE Mark
16		TUV mark
17		RCM mark
18		Keep away from children
19		Do not lift the equipment
20		Do not power off during equipment working
21		Never disassemble this battery unit

# 2 Routine Maintenance

## 2.1 Preparation before maintenance

### NOTICE

Personal protective equipment must be worn before commencing any maintenance operations!

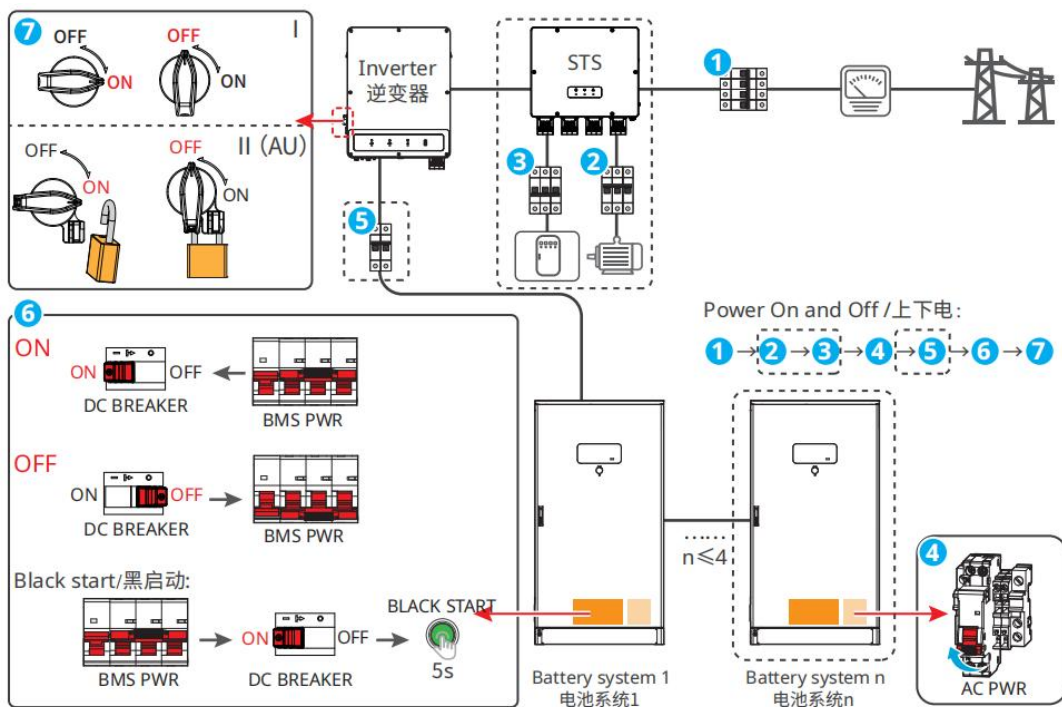
PPE	Description	PPE	Description
	Safety gloves		Anti-dust mask
	Safety goggles		Safety shoes
	Safety helmet		Protective clothing

## 2.2 Power OFF



- Power off the equipment before operations and maintenance. Otherwise, the equipment may be damaged or electric shocks may occur.
- Delayed discharge. Wait until the components are discharged after power off.
- Strictly follow the power off requirements to avoid damaging the system
- In case of an emergency requiring battery shutdown, press the emergency stop switch to immediately de-energize the battery.

Power off the system: ⑦ -> ⑥ -> ⑤ -> ④ -> ③ -> ② -> ①



## 2.3 Regular maintenance



- Please prepare safety protection equipment such as dust masks, insulating gloves, and goggles, as well as other safety protective equipment and relevant maintenance tools before maintenance.
- Contact after sales service for help if you find any problems that may influence the battery or the hybrid inverter. Disassemble without permission is strictly forbidden.

- Contact after sales service for help if the conductive wire is exposed. Do not touch or disassemble privately because the high voltage danger exists.
- In case of other emergencies, contact After Sales Service as soon as possible and follow their instructions. Or wait for them to help.

● **Daily Maintenance**

Log in to the SEMS platform regularly to check for faults and alarms in the battery system.

● **Quarterly Maintenance**

Table 1 Quarterly Maintenance Checklist

Maintenance Category	Maintenance action	Reference standards	Whether the System Needs to Be Powered Off
Cabinet	Visual Inspection: <ul style="list-style-type: none"> <li>● Overall appearance</li> <li>● Rust condition</li> <li>● Door lock status</li> <li>● Ventilation openings</li> <li>● Labels</li> </ul>	<ul style="list-style-type: none"> <li>● The cabinet has no obvious coating peeling or scratches, and no noticeable paint chipping.</li> <li>● The cabinet and its interior are free from rust.</li> <li>● The door lock functions properly.</li> <li>● Ventilation openings are unobstructed.</li> <li>● The label font is clearly visible.</li> </ul>	Yes
Air Conditioner	<ul style="list-style-type: none"> <li>● Inspect the appearance</li> <li>● Clean the filter</li> </ul>	<ul style="list-style-type: none"> <li>● No obvious damage to the appearance, no obvious paint chipping or rust, no loose or missing screws, fan rotates normally without jamming or other abnormalities.</li> <li>● Filter surface is clean and not blocked.</li> </ul>	Yes
SOC Calibration (e.g., Battery frequently cannot be fully charged)	Force charge the battery to 100%	<ul style="list-style-type: none"> <li>● SOC runs without jumps.</li> </ul>	No
Electrical and fixed connection	<ul style="list-style-type: none"> <li>● Check ground connections</li> <li>● Check power line</li> </ul>	<ul style="list-style-type: none"> <li>● Electrical connections are normal.</li> <li>● Cable connections are tight</li> </ul>	Yes

inspection	<ul style="list-style-type: none"> <li>● connections</li> <li>● Check communication cable connections</li> </ul>	without loosening or falling off.	
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**NOTICE:**

1. In high-temperature ( $\geq 35^{\circ}\text{C}$ ) or low-temperature ( $\leq 0^{\circ}\text{C}$ ) environments, it is recommended to perform monthly maintenance according to the above methods.
2. In case of sandstorms, it is recommended to clean once after each sandstorm to ensure that the air conditioner filter and condenser are not blocked.

● **Semi-Annual Maintenance**

Table 2 Semi-Annual Maintenance Checklist

Maintenance Category	Maintenance Actions	Reference standards	Whether the System Needs to Be Powered Off
Air conditioner	Visual Inspection: <ul style="list-style-type: none"> <li>● Appearance</li> <li>● Rust condition</li> <li>● Screws</li> <li>● Fan</li> <li>● Filter</li> </ul>	<ul style="list-style-type: none"> <li>● No obvious external damage</li> <li>● No obvious paint peeling or rust.</li> <li>● No loose or missing screws.</li> <li>● Fan rotates normally without jamming or other abnormalities.</li> <li>● Filter surface is clean and not blocked.</li> </ul>	Yes
Air Conditioner Condenser	<ul style="list-style-type: none"> <li>● Appearance</li> <li>● Upper Air Outlet</li> </ul>	<ul style="list-style-type: none"> <li>● Clean and dust-free</li> <li>● Non-clogging</li> </ul>	Yes
Air Conditioner External Fan	Clean the external fan filter.	Filter surface is clean and not blocked.	Yes
Temperature Detector/Smoke Detector	Use a dedicated testing instrument to heat the temperature detector or apply smoke to the smoke detector to test the detector's action	Temperature detector indicator light is steadily red, and smoke detector indicator light is steadily red.	No
Fire-Fighting Device (Aerosol)	<ul style="list-style-type: none"> <li>● Perform necessary cleaning of the modules.</li> <li>● Check if the cables are loose</li> </ul>	<ul style="list-style-type: none"> <li>● Clean and free of dust.</li> <li>● Cables are undamaged and connections are secure.</li> </ul>	Yes

or detached.

**NOTICE:**

1. It is strictly forbidden to trigger the smoke detector and temperature detector at the same time, as this will cause the fire-fighting device to activate!
2. Use 6~7 bar compressed air or a water gun to clean the condenser from the outside of the cabinet. Do not spray water directly at the wind turbine, clean dust from the water collection tray after washing. Do not clean the inside of the cabinet with water to avoid electric shock!
3. Only rinse the upper air outlet, do not spray water directly on the intake fan. It is recommended to blow dry any residual water.
4. When cleaning and maintaining condensers and heat exchangers, do not use hot water or organic solvents such as gasoline for cleaning.

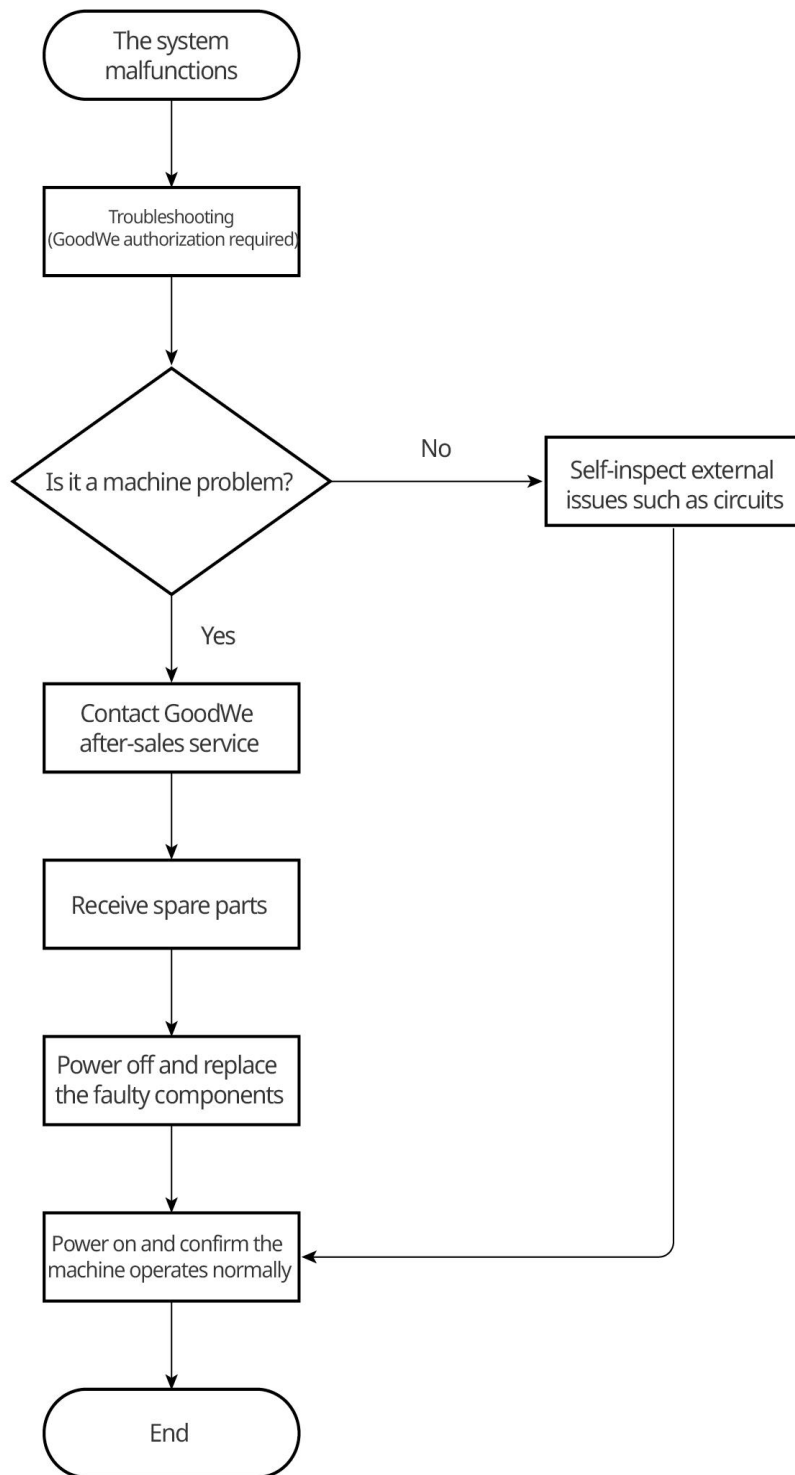
● **Annual maintenance**

Table 3 Annual Maintenance Checklist

Maintenance Category	Maintenance action	Reference standard	Whether the System Needs to Be Powered Off
Battery Pack	Visual Inspection: <ul style="list-style-type: none"><li>● Appearance</li><li>● Rust condition</li><li>● Screws</li><li>● Fan</li></ul>	<ul style="list-style-type: none"><li>● No obvious external damage</li><li>● No obvious paint peeling or rust.</li><li>● No loose or missing screws.</li><li>● Manually turn the fan to check if it rotates smoothly without abnormal.</li></ul>	Yes
Emergency Stop Switch	Press the emergency stop button	Emergency stop function is normal.	No

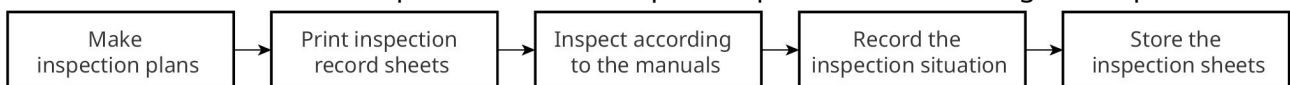
## 2.4 Fault Maintenance Process and Regular Inspection Process

- When equipment fails, please follow the maintenance procedures below:



BAT10MTN0023

- When the equipment is working normally, please follow the process below and refer to the Routine Maintenance chapter to make an inspection plan and conduct regular inspections:



BAT10MTN0024

## 2.5 Fault Location methods

**Step 1:** Log in to the SEMS platform view alarm information.

**Step 2:** Locate the fault position based on the alarm information.

**Step 3:** Refer to the fault handling suggestions in the alarm list for processing.

## 2.6 Verification Method

**Step 1:** Power on the system. For specific steps, refer to the reverse procedure in [2.2 Power OFF](#).

**Step 2:** Log in to the SEMS platform or check the alarm/fault indicator lights on the cabinet door to confirm whether the fault has been eliminated.

**Step 3:** Perform charge and discharge on the battery cabinet to check if the system functions normally.

# 3 Replacing Battery Packs

- **Disassembling the Battery Packs**

**Step 1:** Unplug the battery power cables and communication cables connecting the battery pack to be repaired with the adjacent two battery packs.

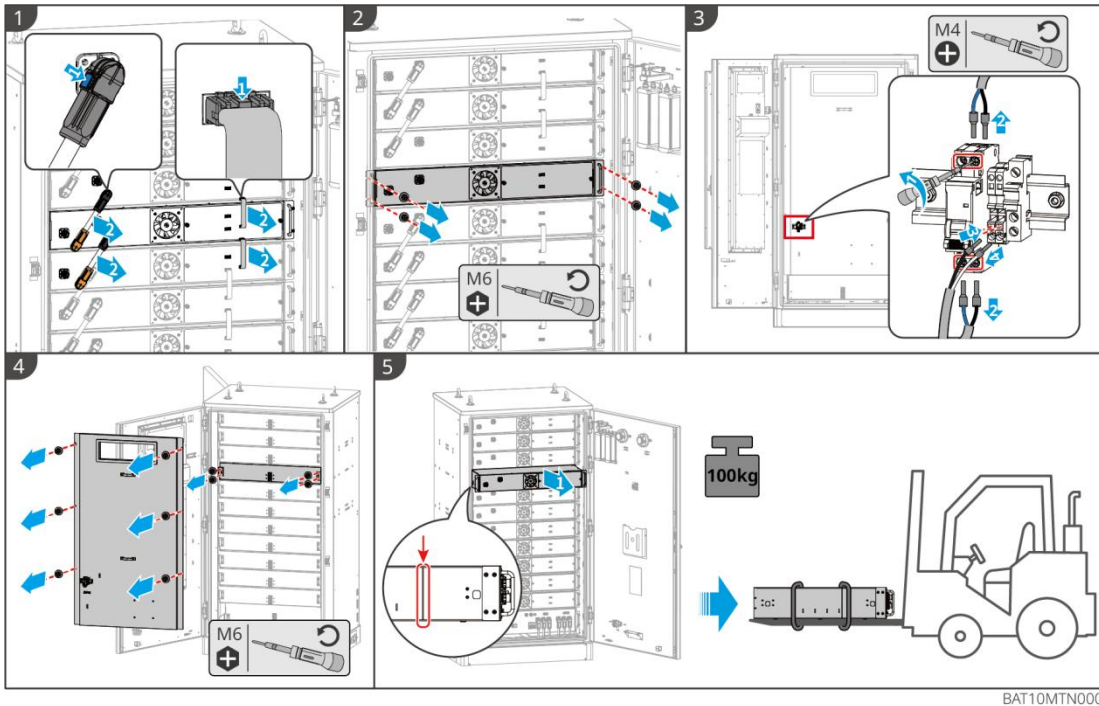
**Step 2:** Unscrew the fixing screws on the front side of the battery pack.

**Step 3:** Open the rear door and disconnect all cable connections on the air conditioner auxiliary switch.

**Step 4:** Remove the air conditioner air duct plate, then unscrew the fixing screws on the rear side of the battery pack.

**Step 5:** Transport the battery pack to be repaired:

1. Hold the lifting lugs on both sides of the battery pack and pull outward slowly until the positioning line on the side of the battery pack is visible, then stop.
2. Raise the forklift to a level flush with the bottom of the battery pack to be repaired, and translate the battery pack onto the forklift for transportation.



BAT10MTN0001

## ● Installing Battery Packs

**Step 1:** Replace the battery pack.

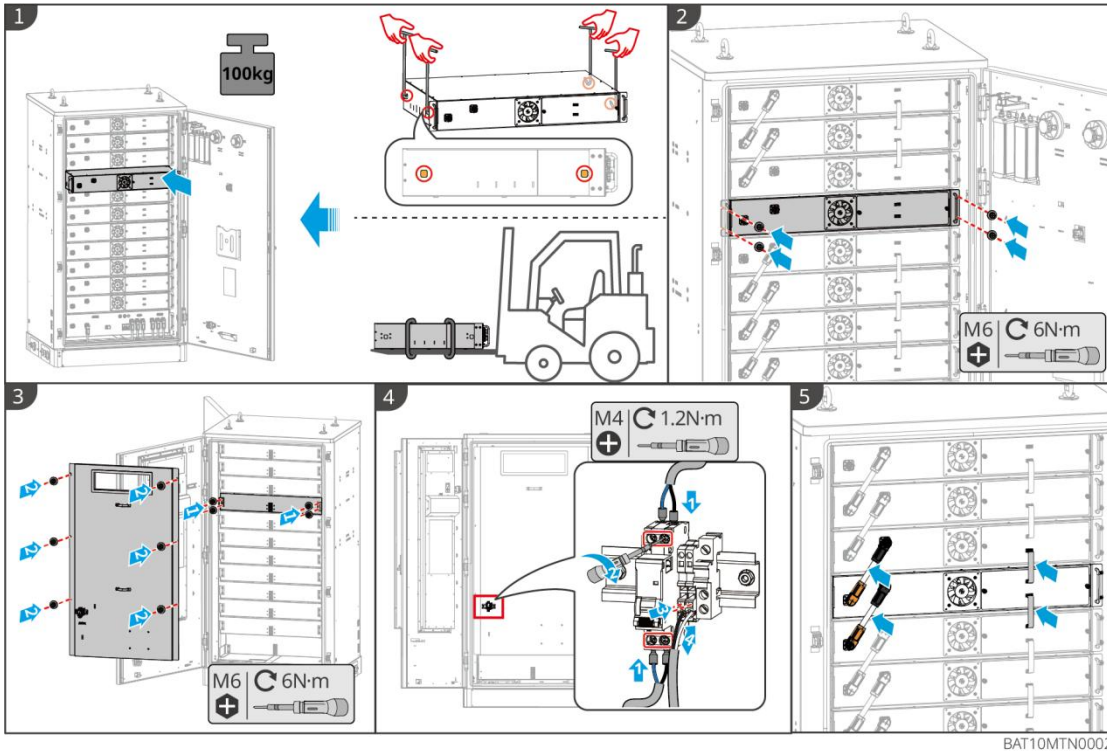
1. Use the hooks on the rear door of the cabinet to hook the four lifting holes on the side of the battery pack for transportation.
2. Put the battery pack back to its original position.

**Step 2:** Tighten the fixing screws on the front side of the battery pack.

**Step 3:** Tighten the fixing screws on the rear side of the battery pack and install the air conditioner air duct plate.

**Step 4:** Connect the air conditioner auxiliary switch.

**Step 5:** Connect the battery power cables and battery communication cables on the battery pack.



## 4 Replacing Main Control Box

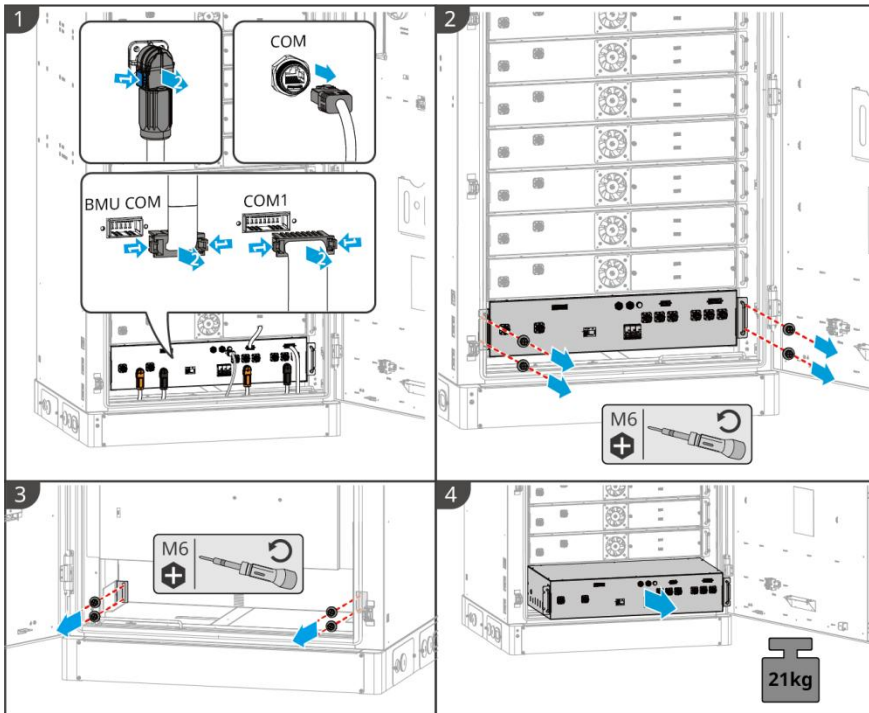
- **Disassembling Main Control Box**

**Step 1:** Disconnect all cable connections on the main control box.

**Step 2:** Unscrew the fixing screws on the front side of the main control box.

**Step 3:** Open the rear door and unscrew the fixing screws on the rear side of the main control box.

**Step 4:** Hold the lifting lugs on both sides of the main control box and pull outward.



BAT10MTN0003

### ● Installing Main Control Box

**Step 1:** Put the main control box to be installed into its original position.

**Step 2:** Tighten the fixing screws on the front side of the main control box.

**Step 3:** Tighten the fixing screws on the rear side of the main control box.

**Step 4:** Connect the power cables and communication cables on the main control box.



BAT10MTN0004

## 5 Replacing Air Conditioner



**WARNING**

Under no circumstances should the air conditioner be placed in an upright position.

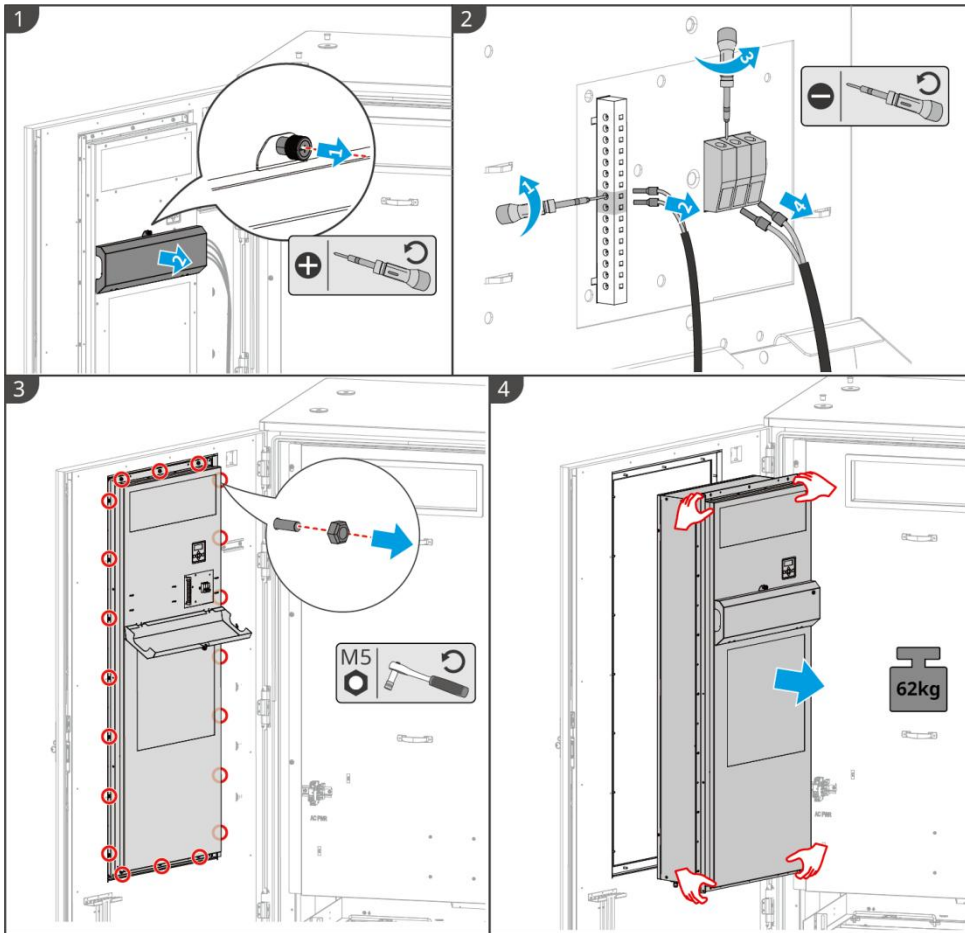
- **Disassembling Air Conditioner**

**Step 1:** Unscrew the screw on the air conditioning wire duct and open it.

**Step 2:** Disconnect the power cable and signal cable connections in the air conditioner trunking: First loosen the flat-head screw, then unplug the PIN terminal.

**Step 3:** Unscrew the fixing nuts around the air conditioner (14 pieces).

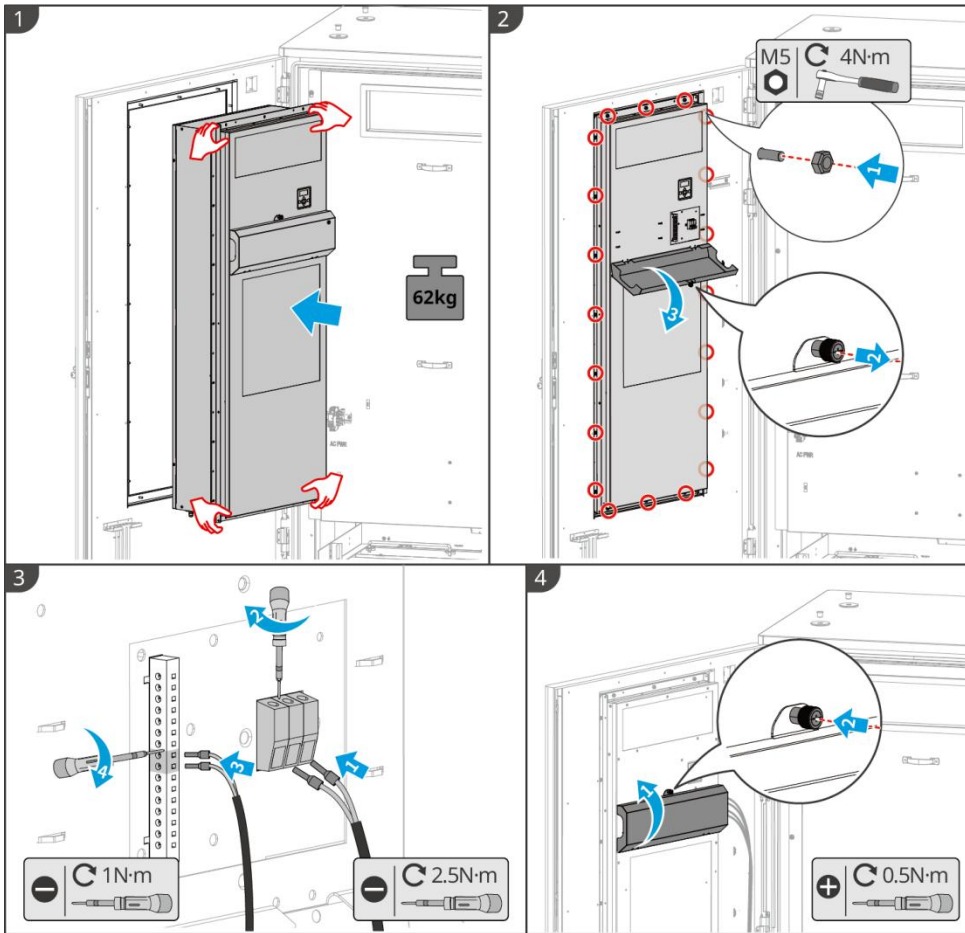
**Step 4:** Hold the four corners of the air conditioner with your hands, tilt it outward, and move the air conditioner out.



BAT10MTN0005

### ● Installing Air Conditioner

- Step 1:** Hold the four corners of the air conditioner with your hands and place it into original position.
- Step 2:** Tighten the fixing nuts around the air conditioner (14 pieces).
- Step 3:** Connect the power cable and signal cable in the air conditioner trunking: first insert the PIN terminal, then tighten the flat-head screw.
- Step 4:** Close the air conditioner trunking and tighten the screws on it.



BAT10MTN0006

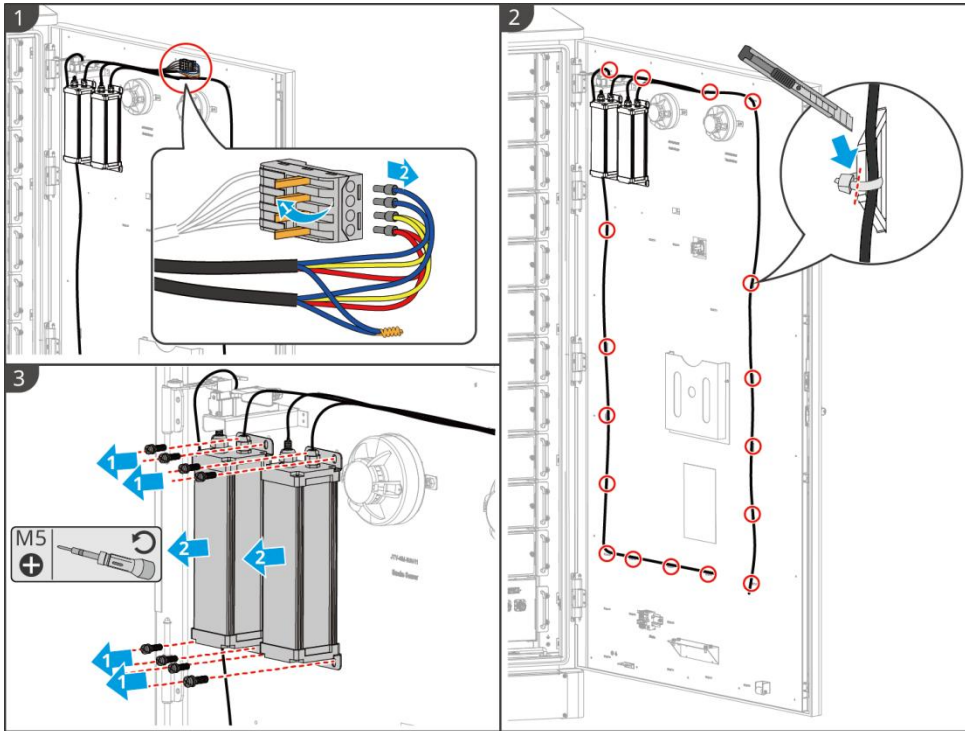
## 6 Replacing aerosol

- **Disassembling aerosol**

**Step 1:** Disconnect the cables from the quick-connect terminal terminal.

**Step 2:** Use a utility knife to cut all the bundled cable tie.

**Step 3:** Unscrew the fixing screws of the thermal aerosol and take it down.



BAT10MTN007

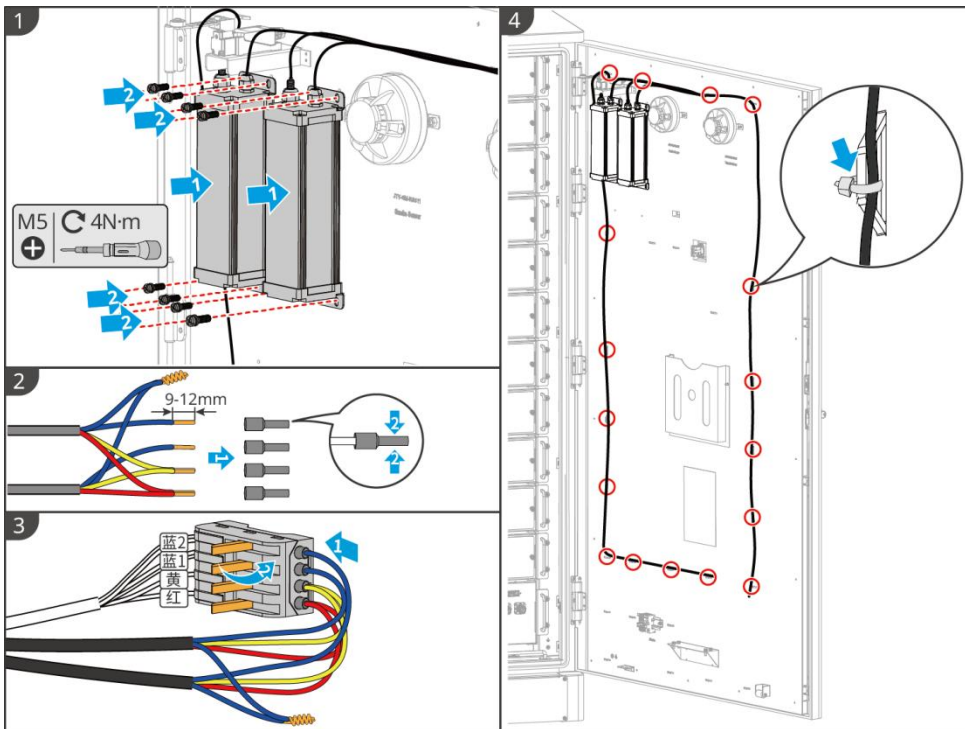
## ● Installing aerosol

**Step 1:** Tighten the fixing screws of the thermal aerosol.

**Step 2:** Crimp PIN terminal.

**Step 3:** Connect the crimped PIN terminal to the quick-connect terminal.

**Step 4:** Fix the thermal aerosol signal cable with binding straps.



BAT10MTN008

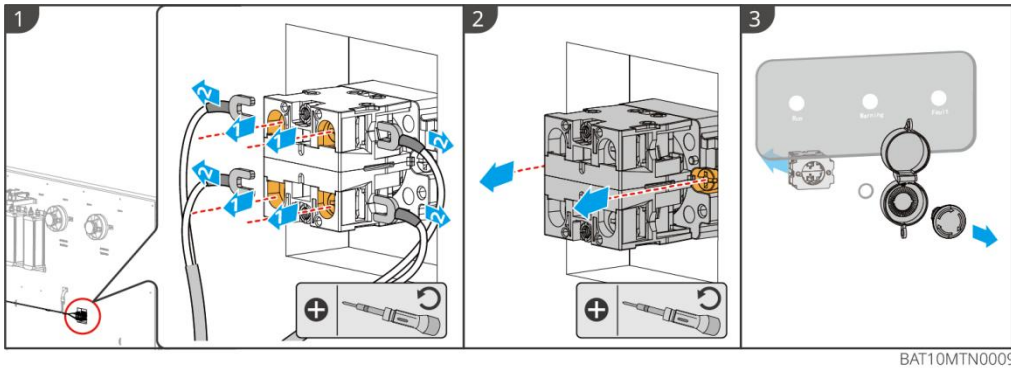
# 7 Replacing Emergency Stop Switch

- **Disconnect Emergency Stop Switch**

**Step 1:** Disconnect all cables from the emergency stop switch: First loosen screw, then pull out the Y-type terminal.

**Step 2:** Unscrew the fixing screws of the emergency stop switch.

**Step 3:** Remove both the internal and external parts of the emergency stop switch at the same time.

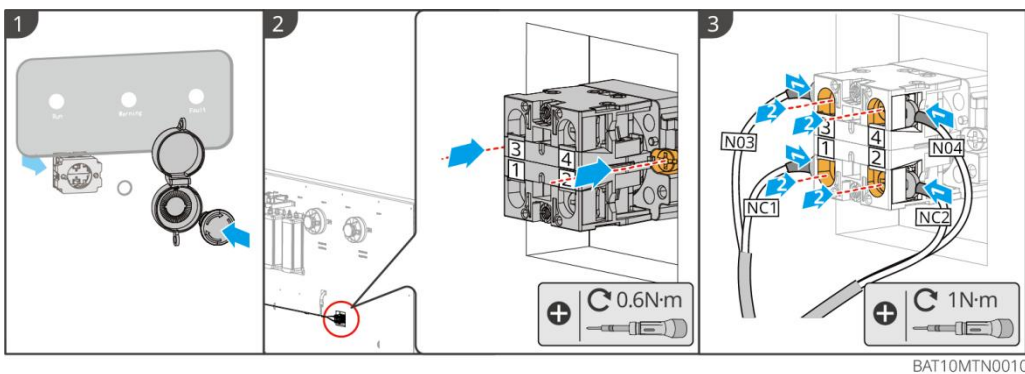


- **Installing Emergency Stop Switch**

**Step 1:** Place both the internal and external parts of the emergency stop switch into their original positions at the same time.

**Step 2:** Tighten the fixing screws of the emergency stop switch.

**Step 3:** Connect the emergency stop switch cable: First insert the Y-type terminal, then tighten the screw.



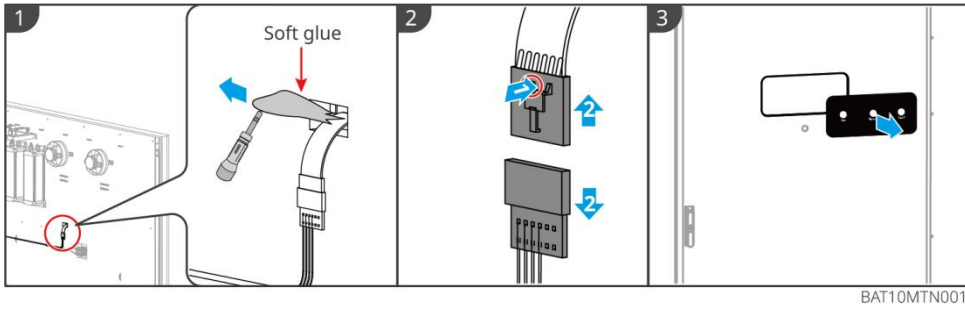
# 8 Replacing Indicator Panel

- **Disassembling Indicator Panel**

**Step 1:** Remove the internal fixing soft glue of the indicator panel.

**Step 2:** Disconnect the indicator panel cable: Press the latch and pull it apart on both sides.

**Step 3:** Take down the panel from the front of the main door.

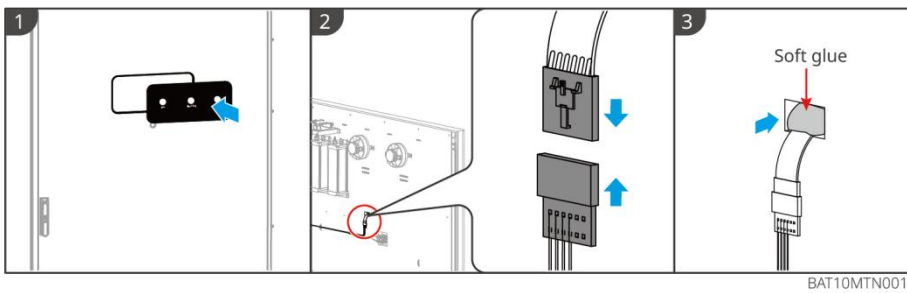


- **Installing Indicator Panel**

**Step 1:** Place the indicator panel into its original position.

**Step 2:** Connect the cables.

**Step 3:** Inject soft glue to secure the panel.



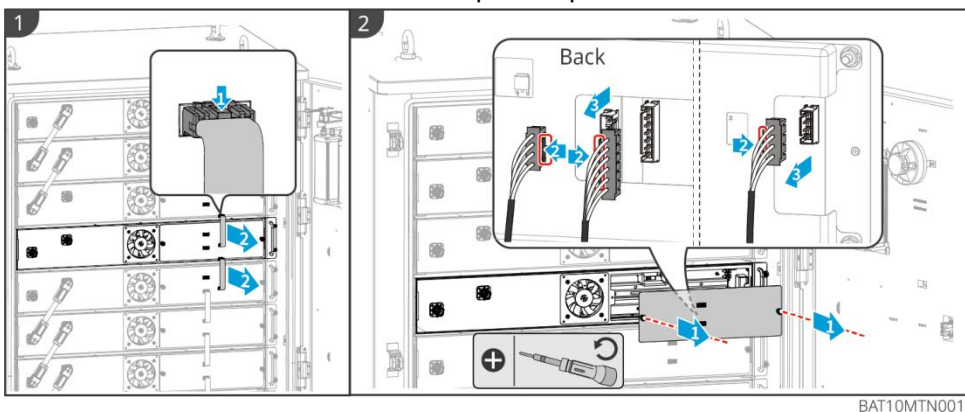
## 9 Replacing Slave Board

- **Disassembling Slave Board**

**Step 1:** Remove the battery communication cable from the slave board to be repaired.

**Step 2:** Take down the slave board.

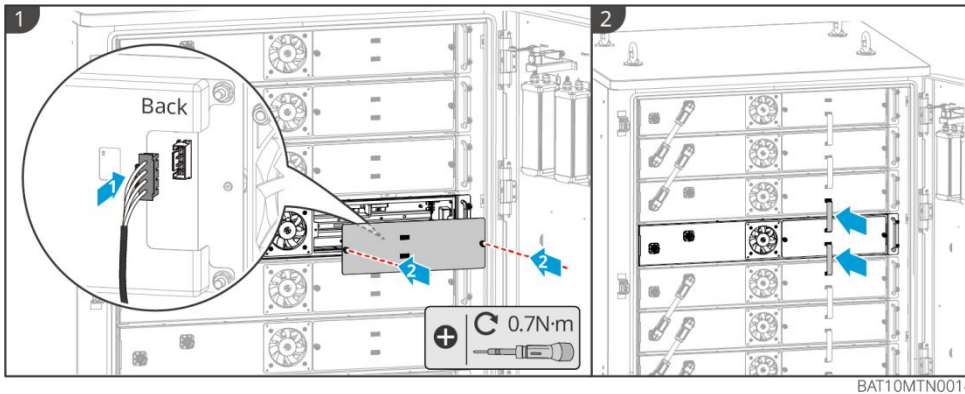
1. Unscrew the fixing screw of the slave board to be repaired;
2. Disconnect the cable connections on the back of the slave board: Press the latch on the side of the cable connector, then pull it upwards.



- **Installing Slave Board**

**Step 1:** Connect the cables on the back of the slave board, then tighten the fixing screw of the slave board.

**Step 2:** Connect the battery communication cable on the slave board.



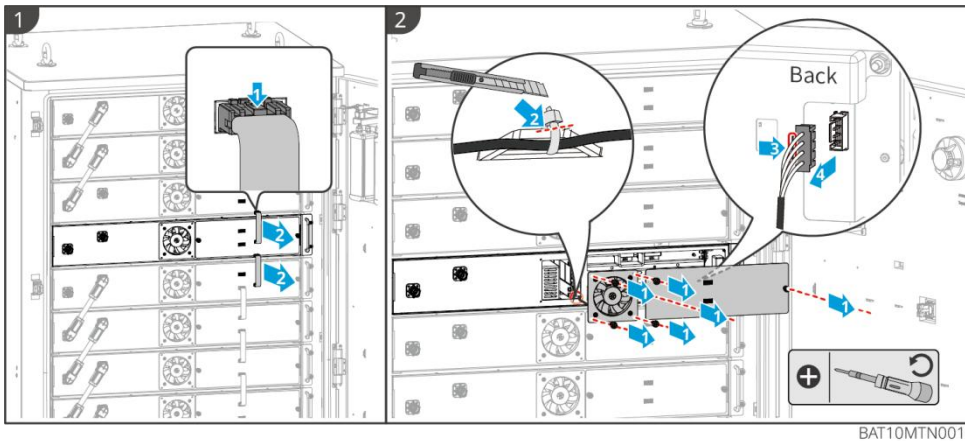
## 10 Replacing Fan

### ● Removing the Fan

**Step 1:** Remove the battery communication cable from the slave board on the right side of the fan to be repaired.

**Step 2:** Remove the fan.

1. Unscrew the fixing screws of the fan and the slave board.
2. Use a utility knife to cut the cable tie securing the fan cable.
3. Disconnect the fan cable: Press the latch on the side of the cable connector, then pull the fan cable upward.



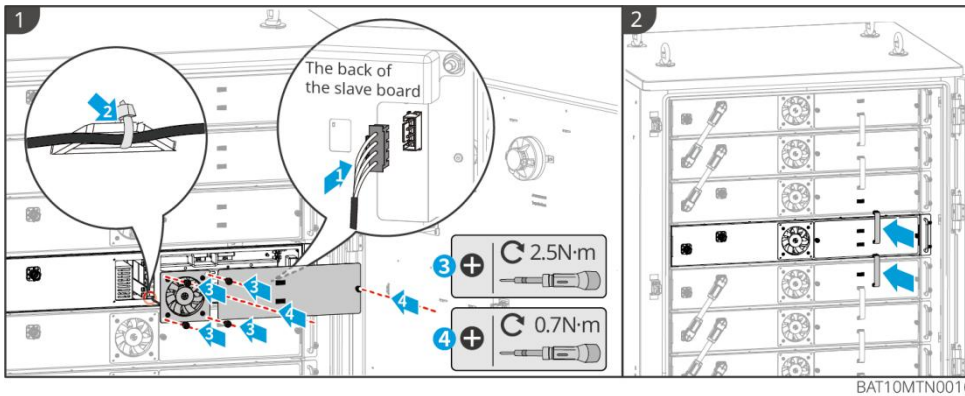
### ● Installing Fan

**Step 1:** Install the fan.

1. Pass the fan cable through the inside of the battery pack to connect to the back of the slave board.
2. Secure the fan cable with cable tie.

3. Tighten the fixing screws of the fan and the slave board.

**Step 2:** Connect the battery communication cable on the slave board.



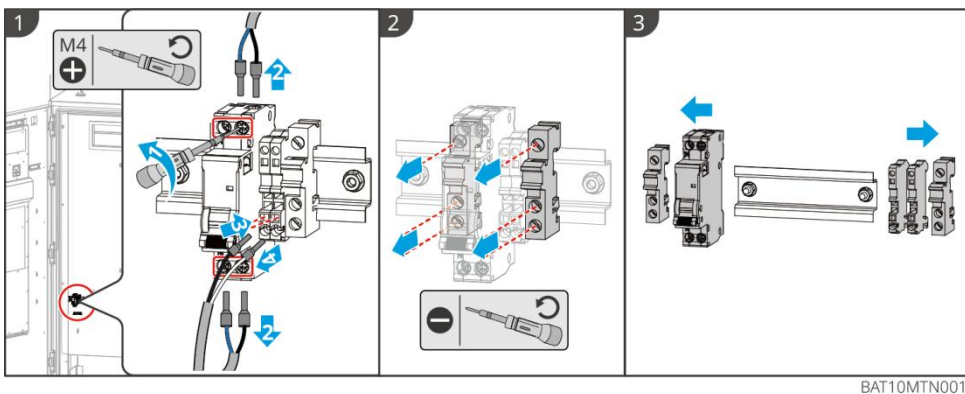
## 11 Replacing Air Conditioner Auxiliary Switch

### ● Removing Air Conditioner Auxiliary Switch

**Step 1:** Disconnect all cable connections on the air conditioner auxiliary switch.

**Step 2:** Loosen the flat-head screw.

**Step 3:** Remove the air conditioner auxiliary switch from both sides of the slide rail.

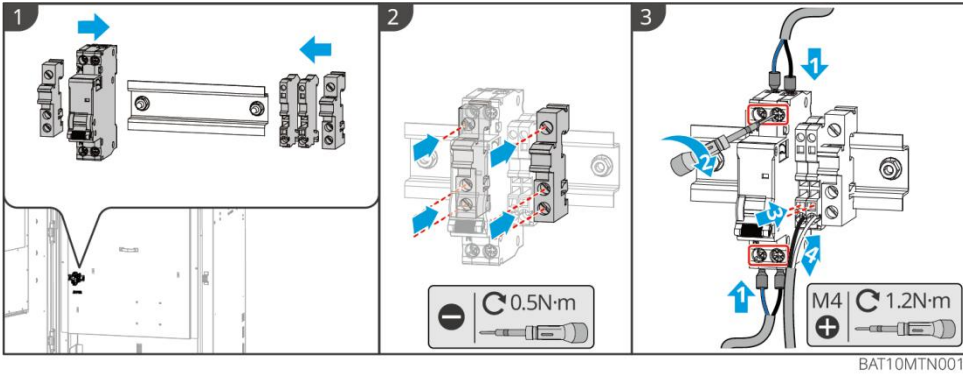


### ● Installing Air Conditioner Auxiliary Switch

**Step 1:** Install the air conditioner auxiliary switch onto the slide rail.

**Step 2:** Tighten the flat-head screw to secure the air conditioner auxiliary switch.

**Step 3:** Connect the air conditioner auxiliary switch cables.



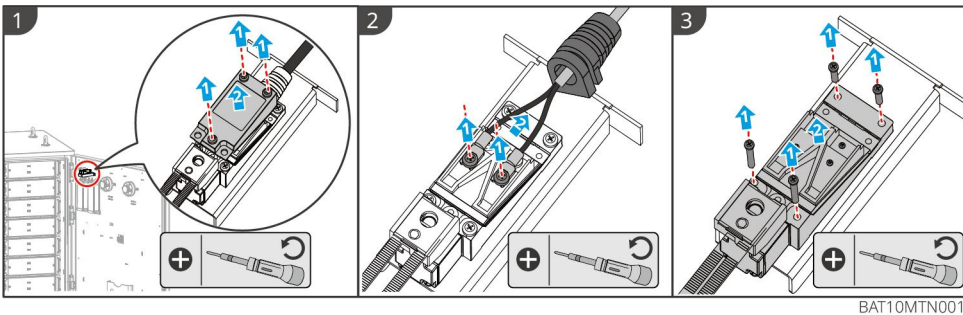
## 12 Replacing Access Control Switch

### ● Removing Access Control Switch

**Step 1:** Unscrew the fixing screw on the access control switch cover and remove the upper cover.

**Step 2:** Disconnect the cable of the access control switch: First loosen the screw, then pull out the Y-type terminal.

**Step 3:** Unscrew the fixing screw of the door switch Base, and remove the door switch Base.

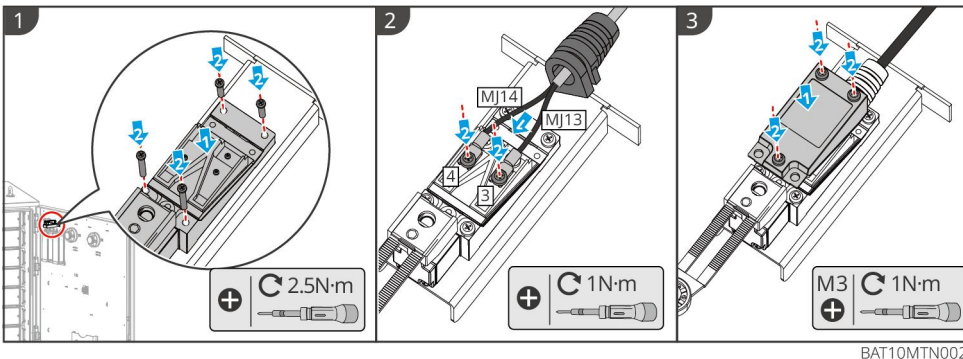


### ● Installing Access Control Switch

**Step 1:** Tighten the fixing screw of the door interlock switch Base.

**Step 2:** Connect the access control switch cable: First insert the Y-type terminal, then tighten the screw.

**Step 3:** Tighten the fixing screw on the cover of the access control switch.



# 13 Replacing Smoke Detector and Temperature Detector

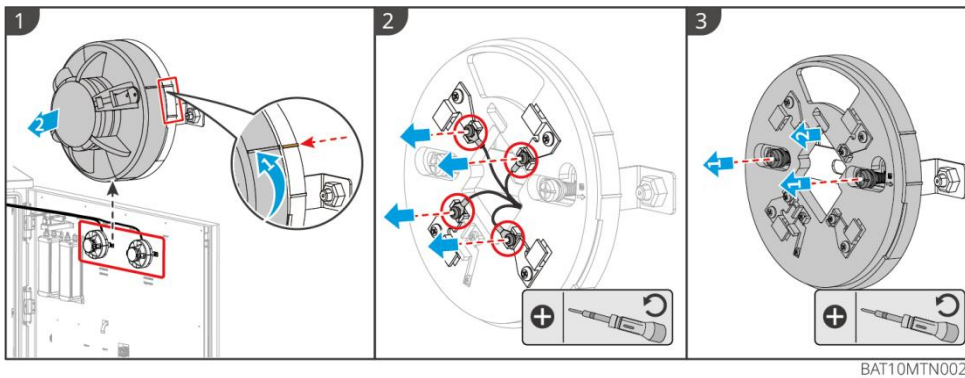
## ● Removing Smoke Detector and Temperature Detector

**Step 1:** Remove the housing of the smoke detector and temperature sensor.

1. Rotate the reference line on the side of the housing to align with the first reference line on the base.
2. Remove the housing.

**Step 2:** Disconnect the internal wiring of the smoke detector and temperature detector.

**Step 3:** Unscrew the base fixing screws and take down the smoke detector and temperature detector.



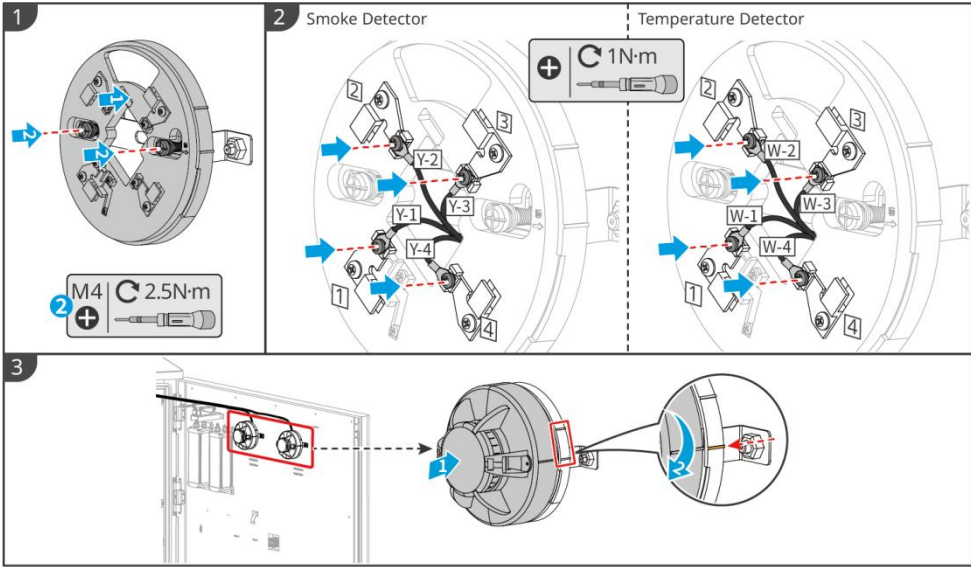
## ● Installing Smoke Detector and Temperature Detector

**Step 1:** Put the base back to its original position and tighten the fixing screws.

**Step 2:** Connect the internal cables of the smoke detector and temperature detector.

**Step 3:** Install the housing.

1. Cover the housing.
2. Rotate the reference line on the side of the housing to align with the second reference line on the base.



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# Contact Information

## **GoodWe Technologies Co., Ltd.**

 No. 90 Zijin Rd., New District, Suzhou, 215011, China

 [www.goodwe.com](http://www.goodwe.com)

 [service@goodwe.com](mailto:service@goodwe.com)