

**iSitePower-M (MAP05A1, MAB05B1)**

# **Quick Guide**

**Issue: 05**

**Part Number: 31500GRU**

**Date: 2023-04-15**

**HUAWEI DIGITAL POWER TECHNOLOGIES CO., LTD.**



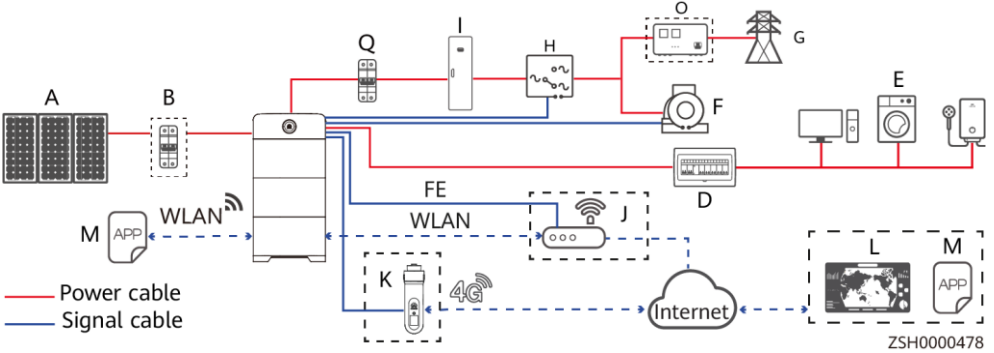
**HUAWEI**

# 1 System Description

## 1.1 System Networking

### Single Product System

Note: Dashed boxes indicate optional configuration

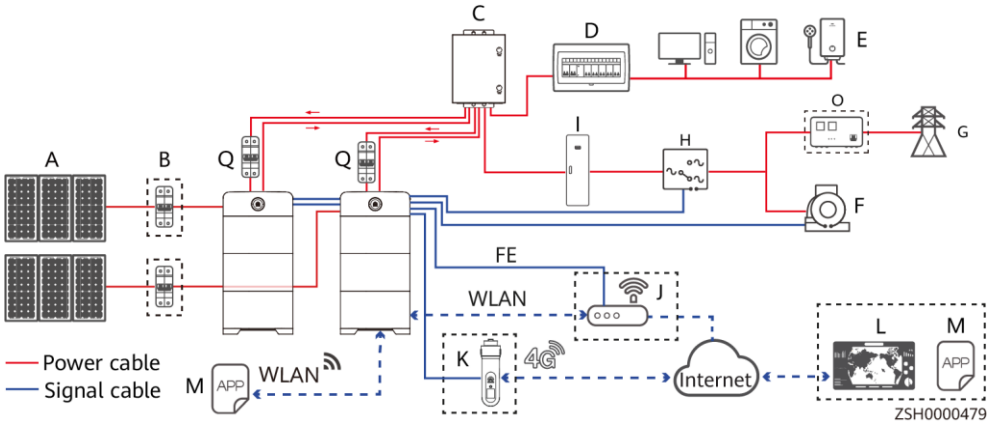


Device	PV+ESS	Mains+ESS	PV+Mains+ESS	PV+Genset+ESS	Mains+Genset+ESS	PV+Mains+Genset+ESS
(A) PV string	√	×	√	√	×	√
(B) DC switch	√	×	√	√	×	√
(D) Power distribution box (PDB)	√	√	√	√	√	√
(E) Load	√	√	√	√	√	√
(F) Genset	×	×	×	√	√	√
(G) Power grid	×	√	√	×	√	√
(H) ATS	×	×	×	×	√	√
(I) Power distribution cabinet (PDC)	×	√	√	√	√	√
(J) Router	√	√	√	√	√	√
(K) 4G wireless backhaul module	√	√	√	√	√	√
(L) FusionSolar Smart PV Management System	√	√	√	√	√	√
(M) FusionSolar App	√	√	√	√	√	√
(O) Automatic voltage regulators	×	×	×	×	√	√
(Q) AC switch	√	√	√	√	√	√

Note: √ indicates supported and × indicates not supported.

## Parallel System

Note: Dashed boxes indicate optional configuration



Device	PV+ESS	Mains+ESS	PV+Mains+ESS	PV+Genset+ESS	Mains+Genset+ESS	PV+Mains+Genset+ESS
(A) PV string	√	×	√	√	×	√
(B) DC switch	√	×	√	√	×	√
(C) AC Parallel Box	√	√	√	√	√	√
(D) Power distribution box (PDB)	√	√	√	√	√	√
(E) Load	√	√	√	√	√	√
(F) Genset	×	×	×	√	√	√
(G) Power grid	×	√	√	×	√	√
(H) ATS	×	×	×	×	√	√
(I) Power distribution cabinet (PDC)	×	√	√	√	√	√
(J) Router	√	√	√	√	√	√
(K) 4G wireless backhaul module	√	√	√	√	√	√
(L) FusionSolar Smart PV Management System	√	√	√	√	√	√
(M) FusionSolar App	√	√	√	√	√	√
(O) Automatic voltage regulators	×	×	×	×	√	√
(Q) AC switch	√	√	√	√	√	√

Note: √ indicates supported and × indicates not supported.

## 1.2 Recommended battery configuration

### NOTICE

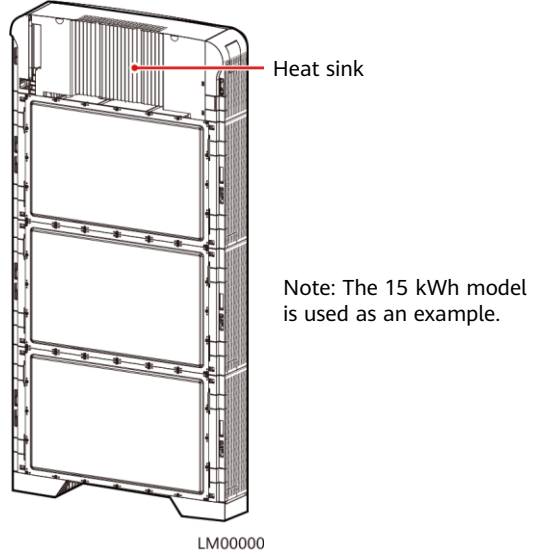
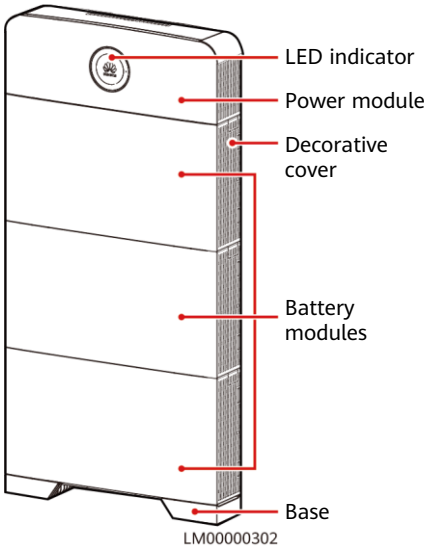
- **Maximum capacity:** In a single-node system, a maximum of six battery modules can be connected. In a parallel system, a maximum of three power modules can be connected. Each power module can connect to a maximum of three battery modules.
- In a parallel system, three routes of single-phase output can be combined but they cannot be used as three-phase output.
- In a parallel system, the number of battery modules on the master and slave products must be the same.
- In a parallel system, if the number of battery modules on the master and slave products are different (not recommended), the products with larger capacity may fail to fully discharge in heavy load scenarios.
- In a system with one power module and one battery module, when the ESS supplies power independently, the load power cannot exceed 2.5 kW. If the load power exceeds 2.5 kW, the ESS shuts down for 10 seconds and then restarts, which repeats for three times. The ESS runs with a power limit of 2.8 kW for 1 hour and then stops working.

Scenario	Number of Power Modules	Number of Battery Modules	Maximum Output Power	Power
Single-node system	1	1	2.5 kW	5 kWh
		2	5 kW	10 kWh
Single-node system (capacity expansion scenario)		3	5 kW	15 kWh
		4	5 kW	20 kWh
		5	5 kW	25 kWh
		6	5 kW	30 kWh
Parallel system	2	2	5 kW	10 kWh
		4	9 kW	20 kWh
		6	9 kW	30 kWh
	3	3	7.5 kW	15 kWh
		6	13.5 kW	30 kWh
		9	13.5 kW	45 kWh

## 2 Overview

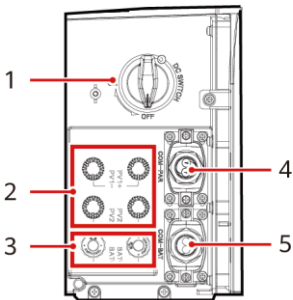
### 2.1 iSitePower-M

The iSitePower-M is a fuel-free hybrid power solution for areas with no or poor mains supply.

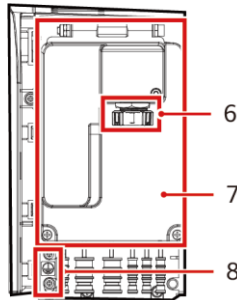


### 2.2 Power Module

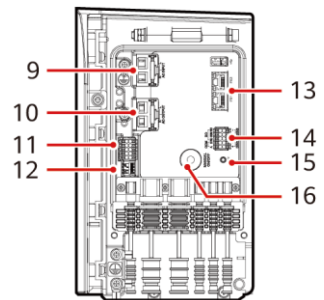
Left view



Right view



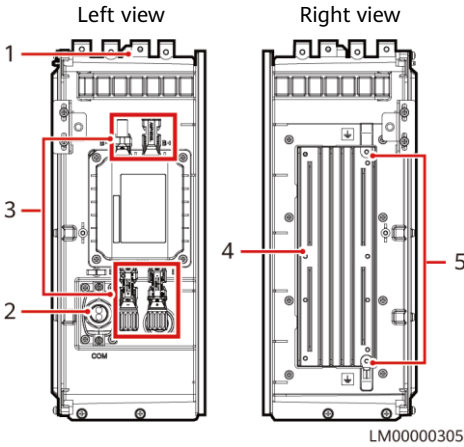
Right view (door opened)



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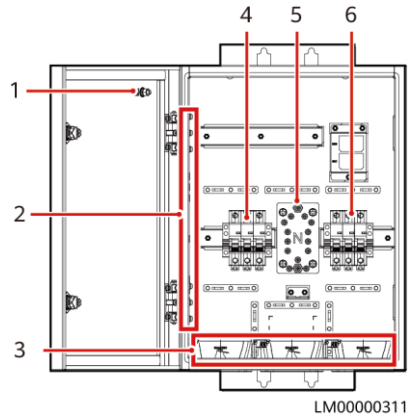
- |   |                                  |                                      |
|---|----------------------------------|--------------------------------------|
| (1) DC SWITCH (PV switch)   | (2) PV inputs                    | (3) Battery module input ports       |
| (4) COM-PAR (communications port between parallel power modules)              |                                  |                                      |
| (5) COM-BAT (communications port between the power module and battery module) |                                  |                                      |
| (6) 4G wireless backhaul module port  | (7) Maintenance compartment door |                                      |
| (8) Ground point  | (9) AC input                     | (10) AC output                       |
| (11) Reserved ports   | (12) DIP switch                  | (13) FE ports (communications ports) |
| (14) COM port and dry contacts  | (15) WiFi button                 | (16) Manual ON/OFF switch            |

## 2.3 Battery Module



- (1) Alignment boss
- (2) COM port
- (3) Terminals for battery module cascading
- (4) Heat sink
- (5) Ground points

## 2.4 AC Parallel Box



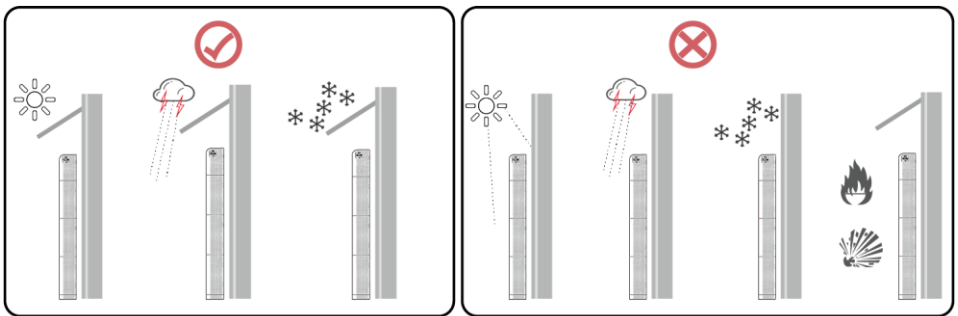
- (1) Ground point on the door
- (2) Ground bar
- (3) Cable bags
- (4) AC input circuit breaker
- (5) N wiring terminal
- (6) AC output circuit breaker

# 3 Installation Preparations

## 3.1 Installation Environment Requirements

**⚠ DANGER**

If a battery module is dropped or violently impacted during installation, it may become faulty and cannot be used. Using a faulty module will cause safety risks such as cell leakage and electric shock.

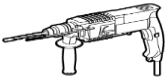


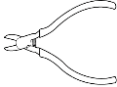
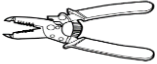







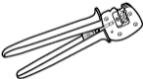








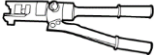









- The installation and usage environment must meet relevant international, national, and local standards for lithium batteries, and are in accordance with the local laws and regulations. The user is obliged to protect the battery against fire or other hazards.
- Ensure that the battery is not accessible to children and away from daily working or living areas, including but not limited to the following areas: studio, bedroom, lounge, living room, music room, kitchen, study, game room, home theater, sunroom, toilet, bathroom, laundry, and attic.
- When installing the battery in a garage, keep it away from the drive way. It is recommended that the battery be mounted on the wall higher than the bumper to prevent collision.
- Do not install the battery in places that are enclosed, unventilated, or difficult for firefighters to access. Do not place flammable or explosive materials around the battery. It is recommended that the battery be mounted on a wall to avoid contact with water.
- Install the battery in a dry and well-ventilated environment. Secure the battery on a solid and flat surface.
- Install the battery in a sheltered place or install an awning over it to avoid direct sunlight or rain.
- Install the battery in a clean environment that is free from sources of strong infrared radiation, organic solvents, and corrosive gases.
- For areas prone to natural disasters such as floods, debris flows, earthquakes, and typhoons/hurricanes, take corresponding precautions for installation.
- Keep the battery away from fire sources. Do not place any flammable or explosive materials around the battery.
- Keep the battery away from water sources such as taps, sewer pipes, and sprinklers to prevent water seepage.
- Do not install the battery in a position where it is easy to touch as the temperature of the chassis and heat sink is high when the battery is running.
- To prevent fire due to high temperature, ensure that the vents and the cooling system are not blocked when the battery is running.
- Do not expose the battery to flammable or explosive gas or smoke. Do not perform any operation on the battery in such environments.
- Do not install the battery on a moving object, such as ship, train, or car.
- Do not install the battery outdoors in salt-affected areas because it may corrode. A salt-affected area refers to the region within 500 meters from the coast or prone to sea breeze. The regions prone to sea breeze vary with weather conditions (such as typhoons and monsoons) or terrains (such as dams and hills).
- In backup power scenarios, do not use the battery for the following situations.
  - a. medical devices substantially important to human life.
  - b. control equipment such as trains and elevators, which may cause personal injury.
  - c. computer systems of social and public importance.
  - d. locations near medical devices.
  - e. other devices similar to those described above.

### 3.2 Wall and Ground Requirements

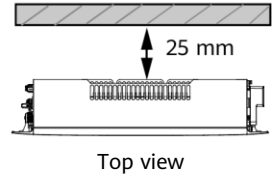
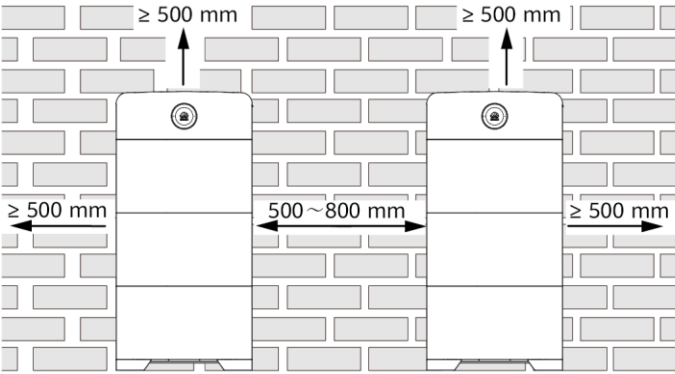
- The product can be mounted on a concrete wall or brick wall and cannot be mounted on a sandwich panel wall or a wooden wall.
- The bearing capacity of the ground must be greater than or equal to 500 kg/m<sup>2</sup>.

### 3.3 Installation Tools

 <p>Hammer drill</p>	 <p>Insulated torque socket wrench (including an extension bar)</p>	 <p>Adjustable torque wrench</p>	 <p>Diagonal pliers</p>	 <p>Wire stripper</p>
  <p>Flat-head insulated torque screwdriver</p>	  <p>Phillips insulated torque screwdriver</p>	 <p>Rubber mallet</p>	 <p>Utility knife</p>	 <p>Cable cutter</p>
 <p>Crimping tool, model: PV-CZM-CZM41100 (preferred)/CZM2 2100</p>	 <p>Cord end terminal crimping tool</p>	 <p>Removal tool (model: PV-MS-HZ open-end wrench)</p>	 <p>Cable tie</p>	 <p>Vacuum cleaner</p>
 <p>Multimeter (DC voltage measurement range <math>\geq 600</math> V DC)</p>	 <p>Marker</p>	 <p>Steel measuring tape</p>	 <p>Level</p>	 <p>Hydraulic pliers</p>
 <p>Heat shrink tubing</p>	 <p>Heat gun</p>	 <p>Insulated gloves</p>	 <p>Protective gloves</p>	 <p>Goggles</p>
 <p>Dust mask</p>	 <p>Work shoes</p>			



### 3.4 Installation Dimensions



## 4 Installing a Mounting Bracket

### Ground Mounting

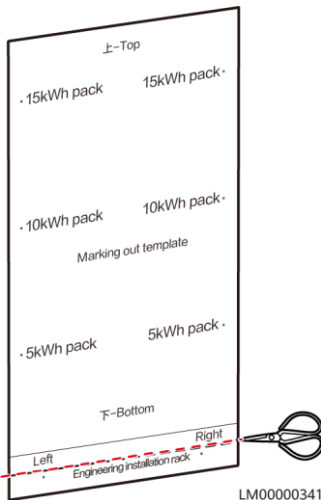
#### NOTE

Two marking out templates are required for ground mounting. A small marking out template determines holes on the ground, and a large marking out template determines holes on the wall.

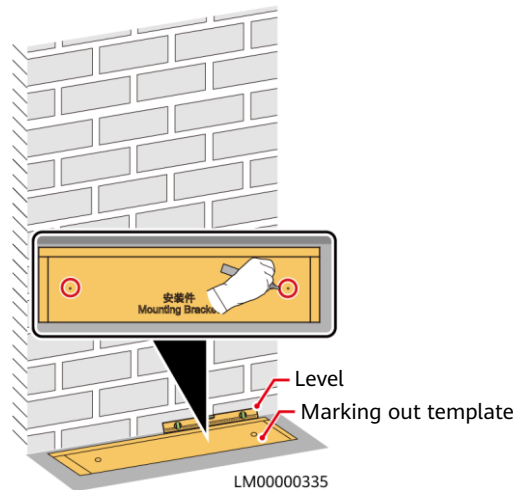
#### ⚠ DANGER

The base must be secured to the ground using bolts. Otherwise, the device may tip over, causing personal injury or device damage.

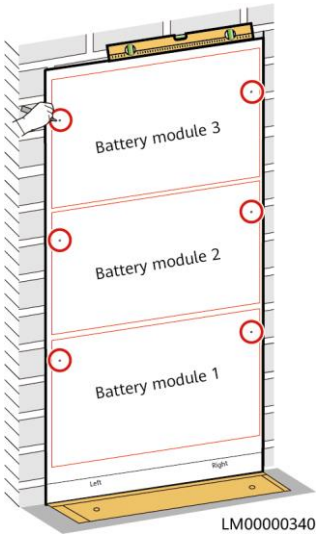
1. Cut the marking out template along the dotted line.



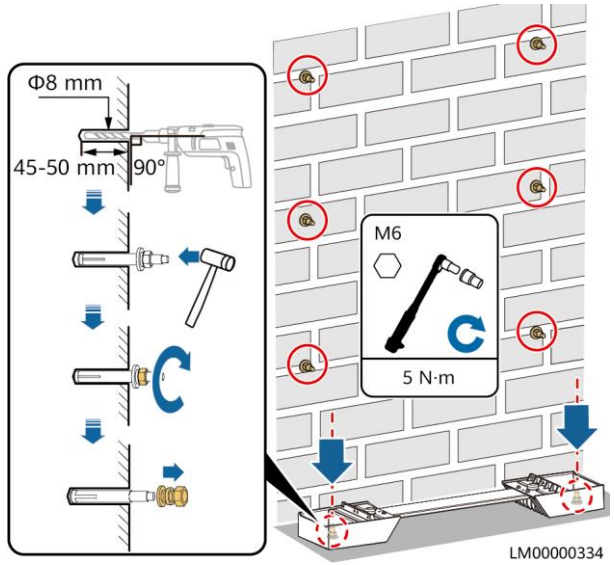
2. Mark mounting holes for the base.



3. Mark the mounting holes for battery modules.

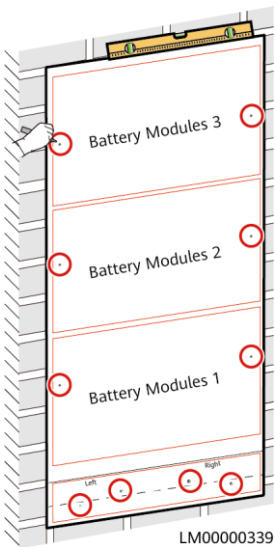


4. Drill holes and install expansion bolts.

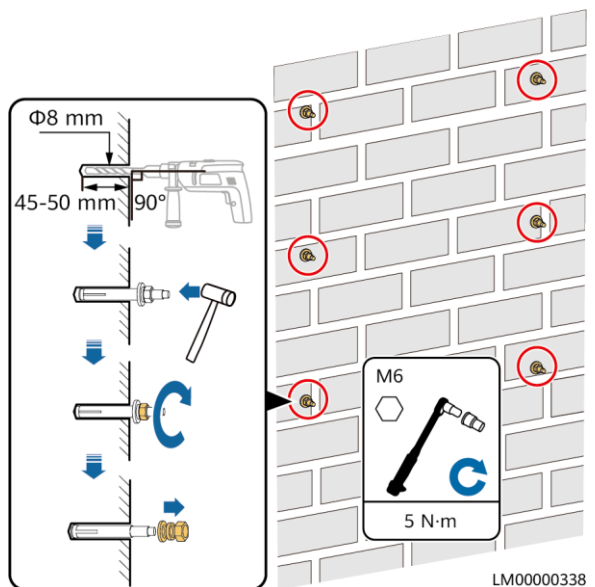


## Wall Mounting

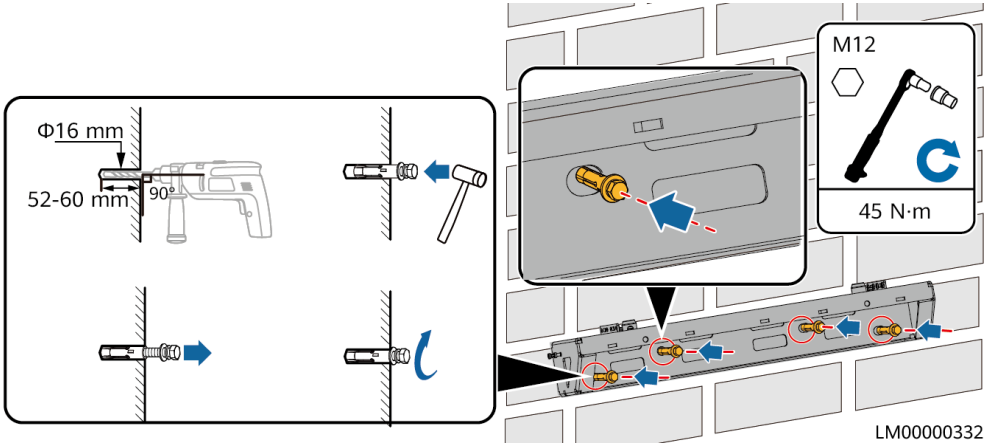
1. Mark the mounting holes for the wall-mounting base and battery modules.



2. Drill holes and install expansion bolts.



3. Install the wall-mounting base.



## 5 Installing Modules

### 5.1 Installing Battery Modules and Power Modules

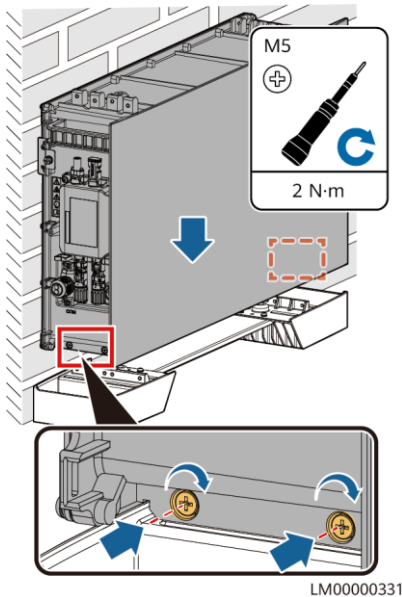
#### NOTICE

- Two persons are required to move a module.
- Battery modules must be secured to the wall.

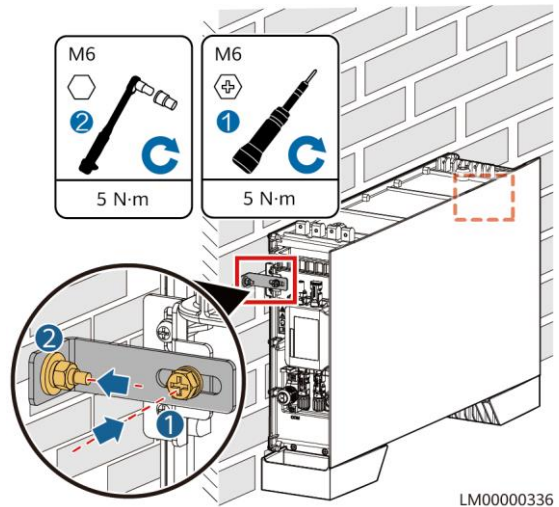
#### NOTE

This section describes how to install modules in the ground mounting scenario.

1. Install a battery module on the mounting base.



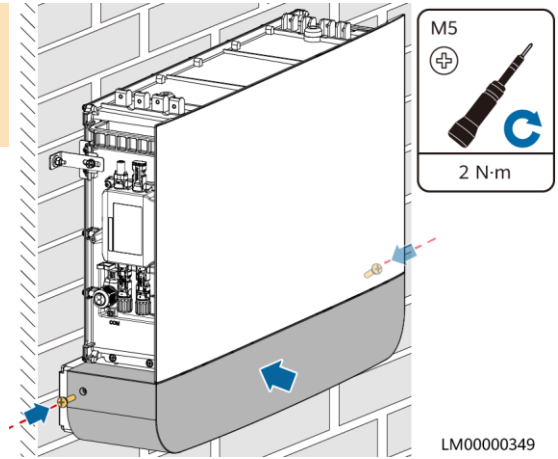
2. Secure the battery module to the wall.



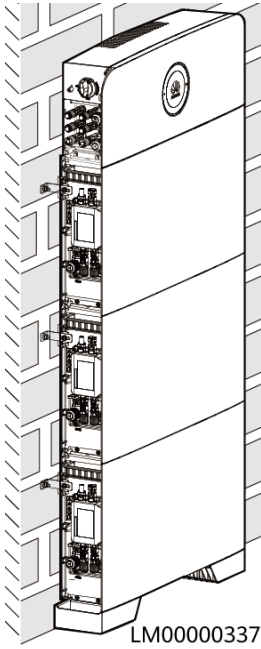
3. Install a wall-mounting base cover.

**NOTICE**

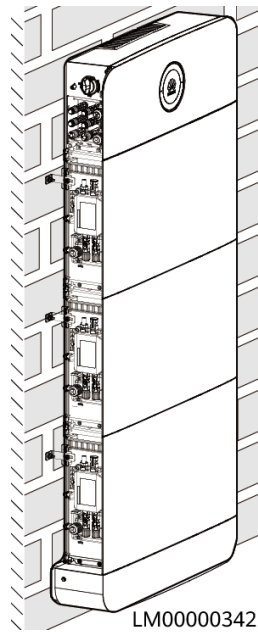
In the wall-mounting scenario, install battery modules before installing the wall-mounting base cover.



4. Install the remaining battery modules and power module from bottom to top. Each time a module is installed, tighten the screws on the left and right, and then secure it against the wall.

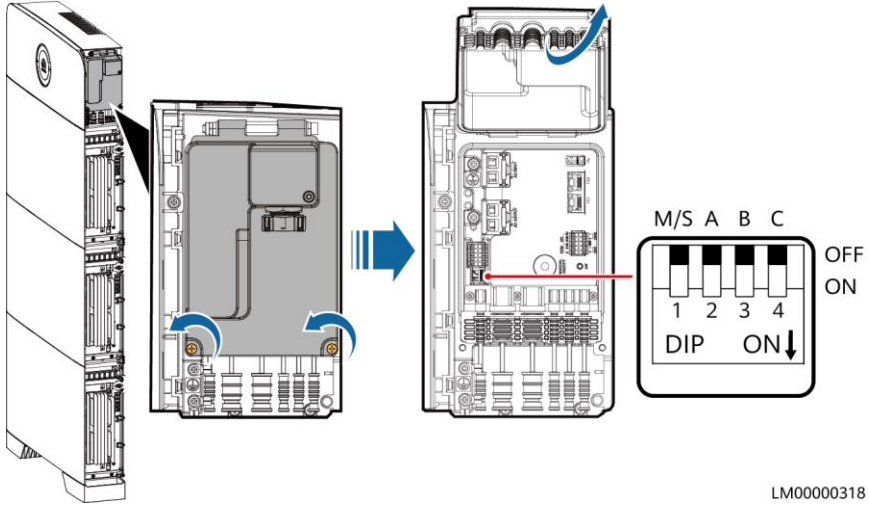


Ground mounting



Wall mounting

5. Open the power module maintenance compartment and set the address DIP switch.



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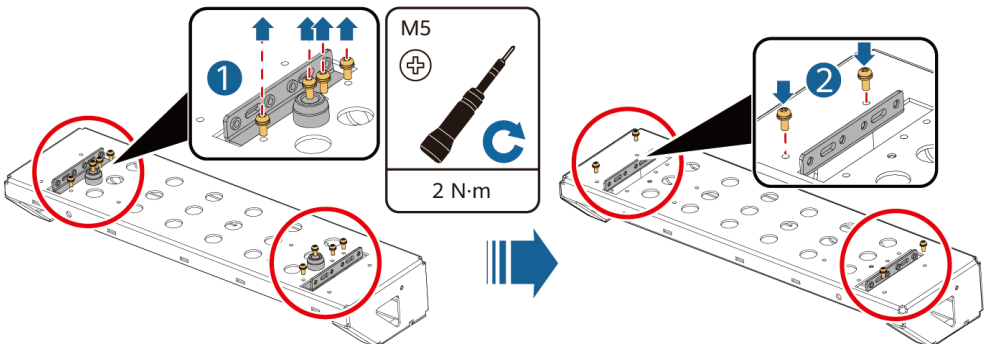
Scenario	Address DIP Switch	Pin 1 (M/S)	Pin 2 (A)	Pin 3 (B)	Pin 4 (C)
Single product	1	ON	OFF	OFF	OFF
Parallel products	Master	1	ON	OFF	OFF
	Slave 1	2	OFF	ON	OFF
	Slave 2	3	OFF	OFF	ON

## 5.2 (Optional) Installing Battery Modules for Capacity Expansion

### NOTICE

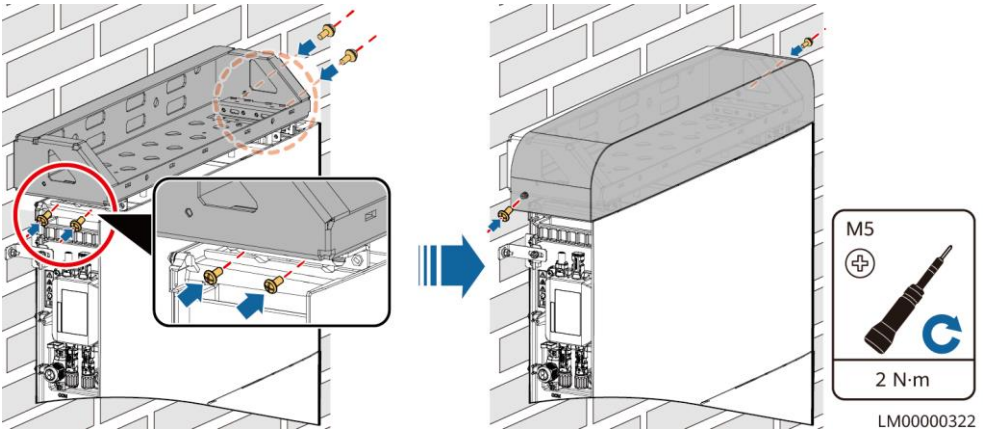
One bracket supports a maximum of three battery modules. If more than three battery modules are installed, an additional bracket is required.

1. Install the bracket and modules. For details, see chapters 3 and 4.1.
2. Remove the L-shaped plates from the top cover, rotate them by 180 degrees, and install them back on the top cover.



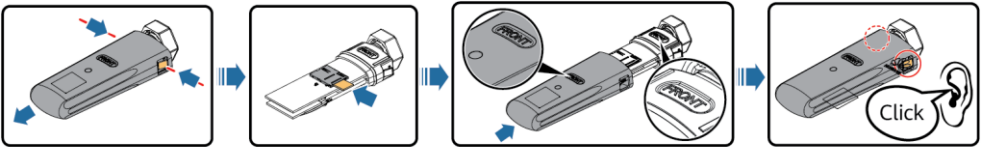
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3. Install the top cover on the battery module.



### 5.3 (Optional) Installing a 4G Wireless Backhaul Module

1. Install a SIM card to the 4G wireless backhaul module.

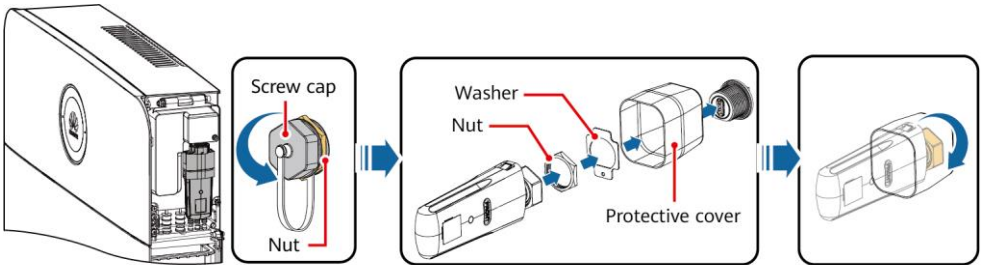


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#### NOTICE

- If you hear two clicks when installing a 4G backhaul module, the module is properly installed. If the module is not properly installed, water may enter it.
- The recommended monthly data package for a SIM card is 500 MB.

2. Install the 4G wireless backhaul module to the corresponding port on the door of the maintenance compartment.



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## 6 Installing Cables

### **⚠ DANGER**

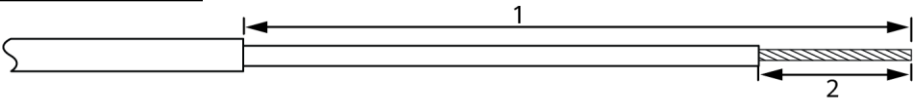
- Connect cables in accordance with local installation laws and regulations.
- Before connecting cables, ensure that the DC SWITCH on the power module and all the switches connected to the power module are set to OFF. Otherwise, the high voltage of the system may result in electric shocks.
- Do not touch the manual ON/OFF switch when installing cables.

### 6.1 Preparing Cables

Prepare cables of the required length based on the actual application scenario and device installation position.

No.	Cable	Type	Conductor Cross-Sectional Area Range	Outer Diameter
1	PV input power cable	Common outdoor PV cable in the industry	4–6 mm <sup>2</sup>	5.5–9 mm
2	AC input and output power cables	Outdoor three-core copper cable (L/N/PE)	4–6 mm <sup>2</sup>	13.7–16.9 mm
3	Ground cable	Single-core outdoor copper cable	Main ground cable: 4–6 mm <sup>2</sup> (same as the cross-sectional area of the AC input cable) Ground cable between battery modules (in capacity expansion scenarios): 6 mm <sup>2</sup>	-
4	Dry contact signal cable	Outdoor shielded twisted pair cable (8 cores)	0.2–1 mm <sup>2</sup>	6.3–7.5 mm

### Stripping Length



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Cable	1	2
PV input power cable	N/A	8–10 mm
AC input power cable	100 mm	<ul style="list-style-type: none"> <li>• PE wire: 7 mm</li> <li>• L/N wire: 17 mm</li> </ul>
AC output power cable	75 mm	<ul style="list-style-type: none"> <li>• PE wire: 7 mm</li> <li>• L/N wire: 17 mm</li> </ul>
Ground cable	N/A	7 mm

## 6.2 Installing Ground Cables

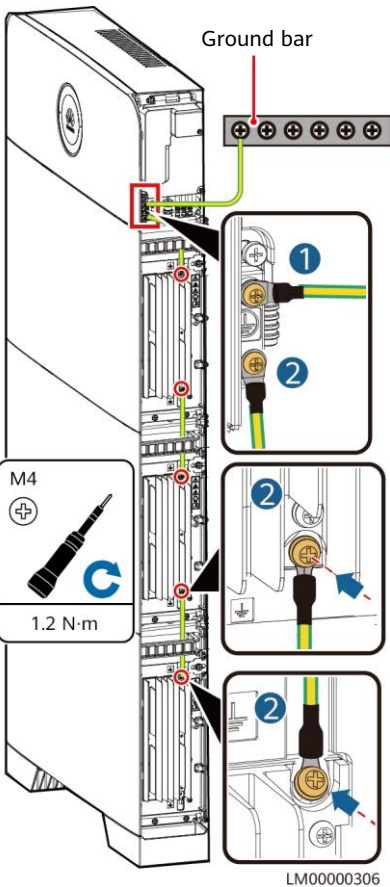
### **⚠ DANGER**

- Ensure that the ground cables are installed securely. Inappropriate grounding may cause device damage and personal injury.
- Connect the ground point of the power module to the ground bar, and then connect equipotential cables between modules.

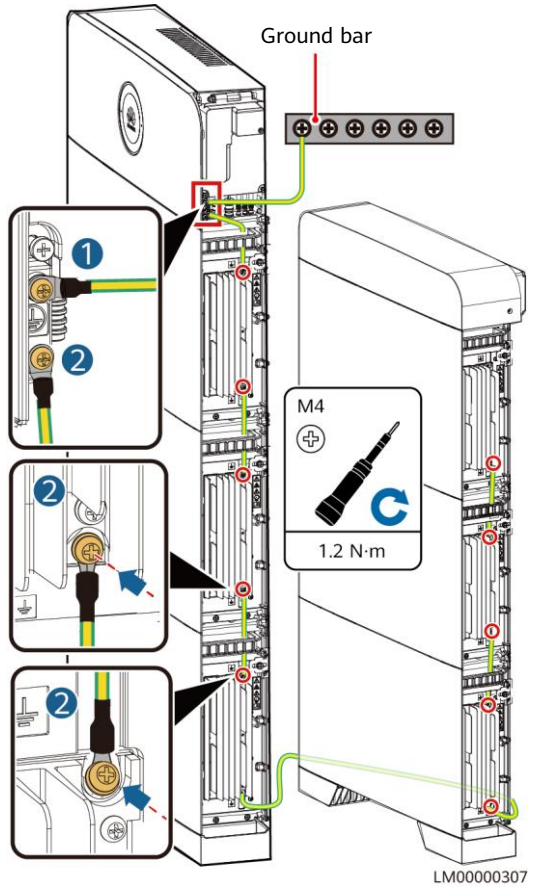
### **NOTICE**

- In capacity expansion scenarios, cascading cables at the lower part must be routed from the rear of the product.
- Cables outside the device must be routed through cable pipes.
- For details about how to prepare OT terminals, see the appendix.

### **Standard Scenario**



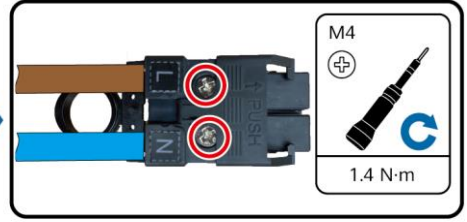
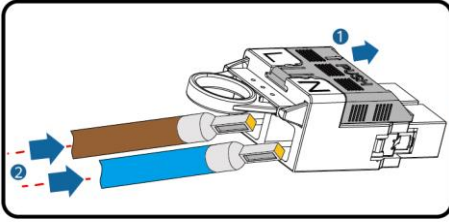
### **Capacity Expansion Scenario**





## 6.3 Installing AC Input and Output Power Cables

1. Prepare cable terminals by referring to the appendix. Connect AC power cables to the terminal connectors.

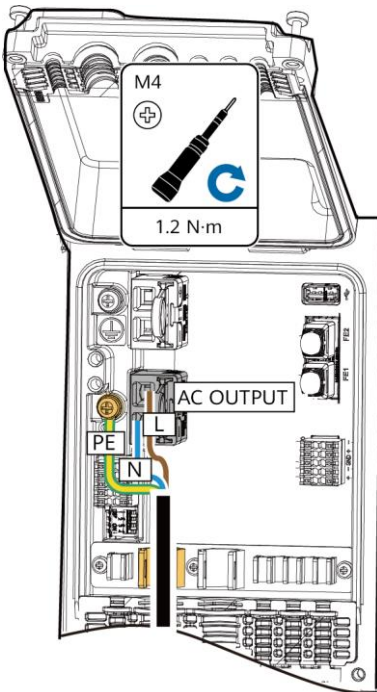


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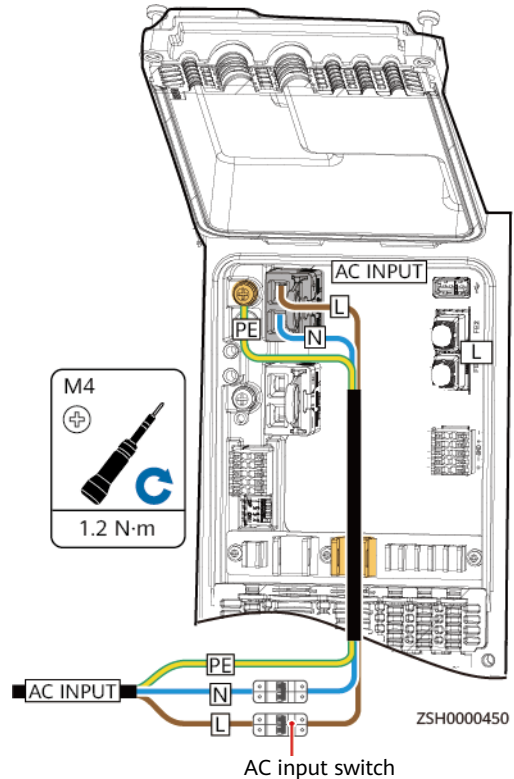
2. Install the AC output power cable and secure the cable using cable clips.
3. Install the AC input power cable and secure the cable using cable clips.

### **⚠ DANGER**

- Before installing an AC input power cable, ensure that the upstream AC input switch is turned off and a prominent label indicating "Do not operate" is set.
- AC switches (with a capacity of 40 A) must be installed for phases L and N of the iSitePower-M AC input. The AC switches are delivered with the iSitePower-M. Do not use a Type D circuit breaker because it cannot effectively protect products.



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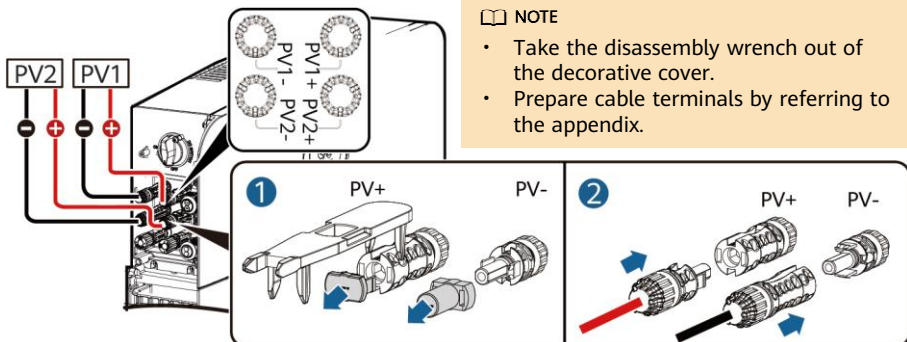
AC input switch

## 6.4 Installing PV Input Power Cables

1. Use a wrench to remove the waterproof gland from the PV input terminal on the power module.
2. Install the PV input power cables.

### NOTE

- Take the disassembly wrench out of the decorative cover.
- Prepare cable terminals by referring to the appendix.



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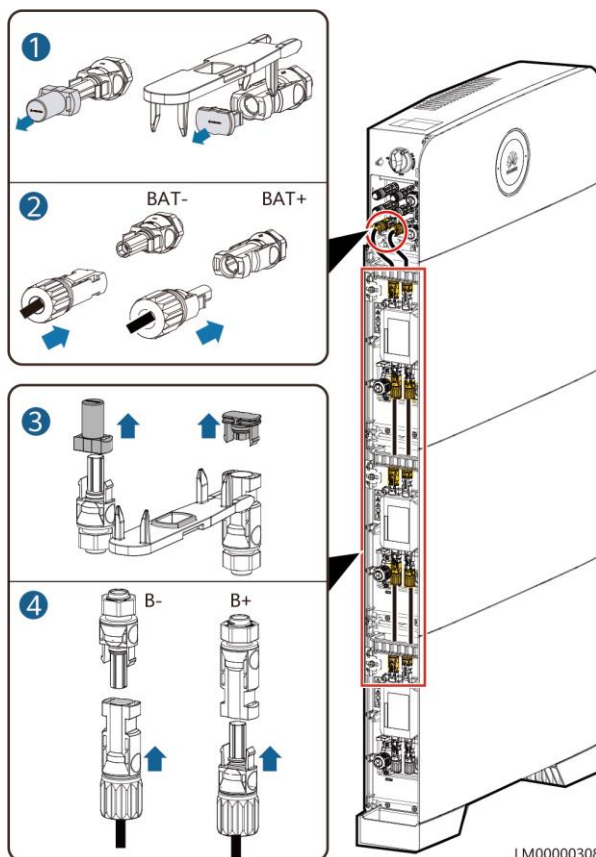
## 6.5 Installing Battery Module Power Cables

1. Use a wrench to remove the waterproof glands from the cascading terminals of the battery modules.
2. Install power cables for the battery modules.
3. Use a wrench to remove the waterproof gland from the power module.
4. Install power cables between the battery module and power module.

### NOTE

Take the disassembly wrench out of the decorative cover.

### Standard Scenario

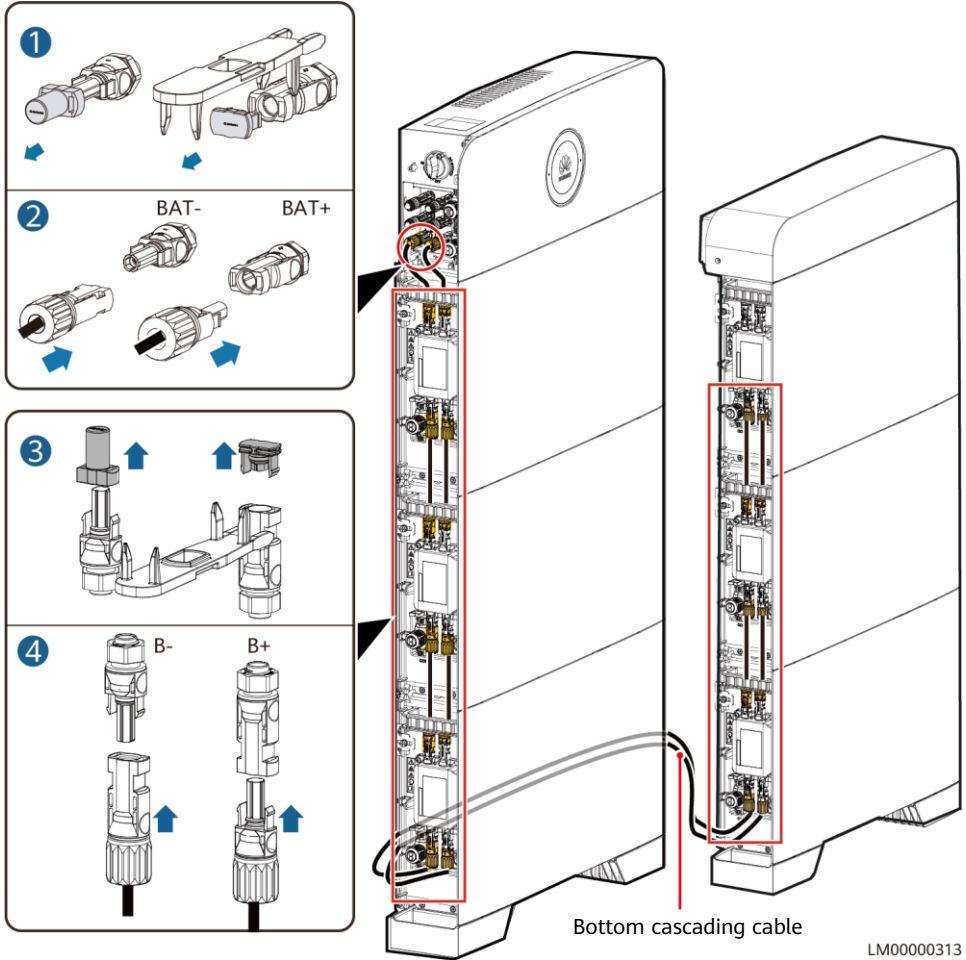


LM00000308

## Capacity Expansion Scenario

### NOTICE

- In capacity expansion scenarios, you need to separately purchase bottom cascading cables from Huawei Digital Power.
- In capacity expansion scenarios, cascading cables at the lower part must be routed from the rear of the product.
- Cables outside the device must be routed through cable pipes.



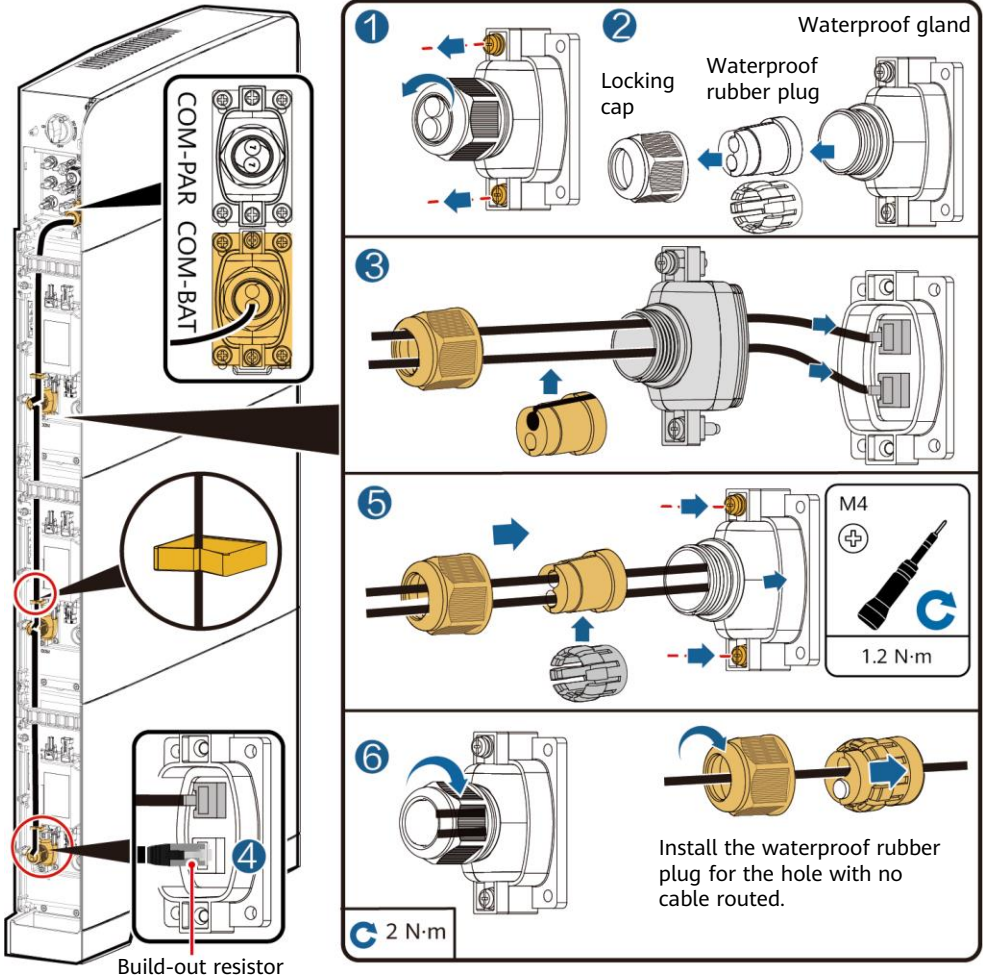
## 6.6 Installing Battery Module Communications Cables

### NOTICE

When a communications terminal is connected to a single network cable, the waterproof rubber plug must be installed for the hole with no cable routed. Otherwise, the waterproof performance may be affected and the device will be damaged.

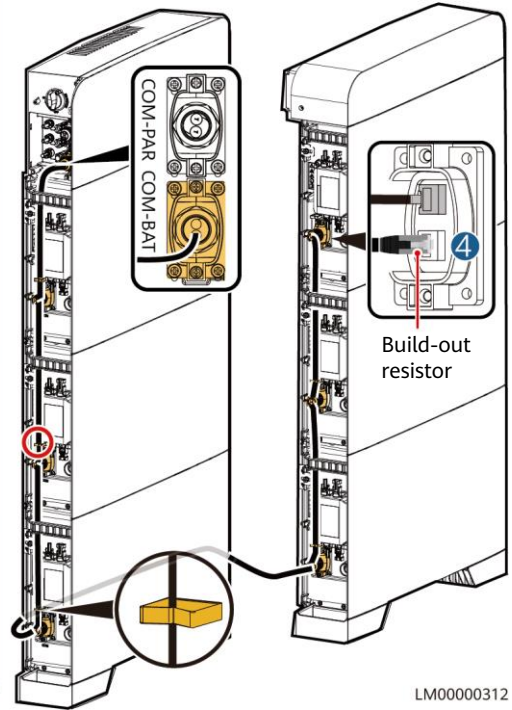
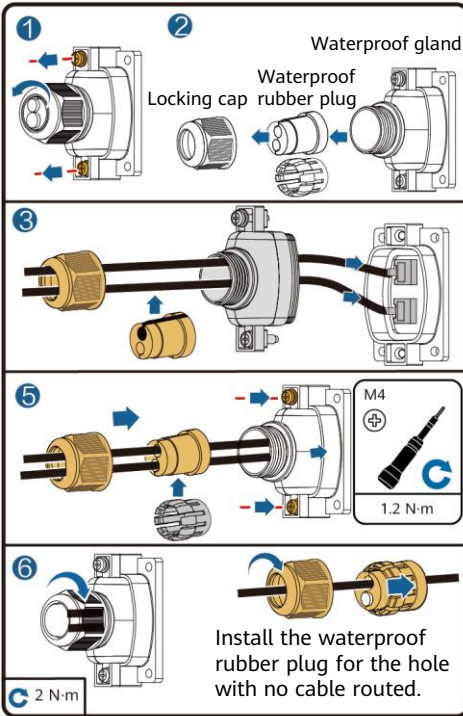
1. Remove the waterproof gland from the communications terminal of a battery module.
2. Remove the locking cap and waterproof rubber plug from the communications terminal housing.
3. Install a communications cable for the battery module.
4. Install build-out resistors. Otherwise, the communication will be interrupted.
5. Lock the communications terminal waterproof gland. Reinstall the waterproof rubber plug.
6. Tighten the locking cap and secure the signal cable using cable clips.
7. Install communications cables for other battery modules in sequence.

### Standard Scenario



LM00000309

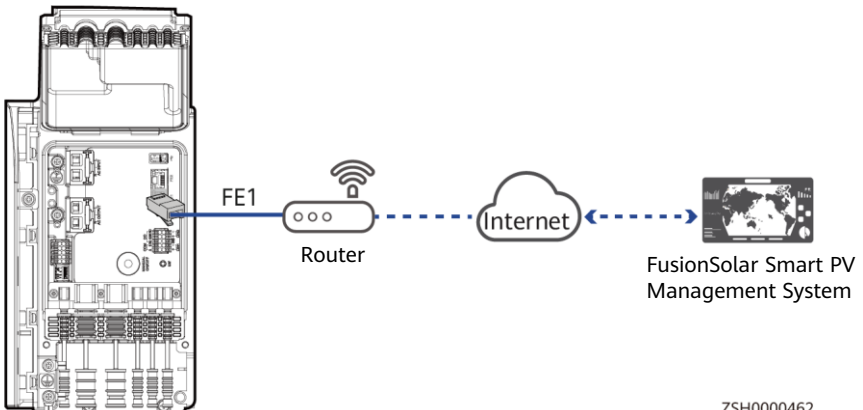
## Capacity Expansion Scenario



### NOTICE

- In capacity expansion scenarios, cascading cables at the lower part must be routed from the rear of the product.
- Cables outside the device must be routed through cable pipes.

## 6.7 Installing Power Module Communications Cable



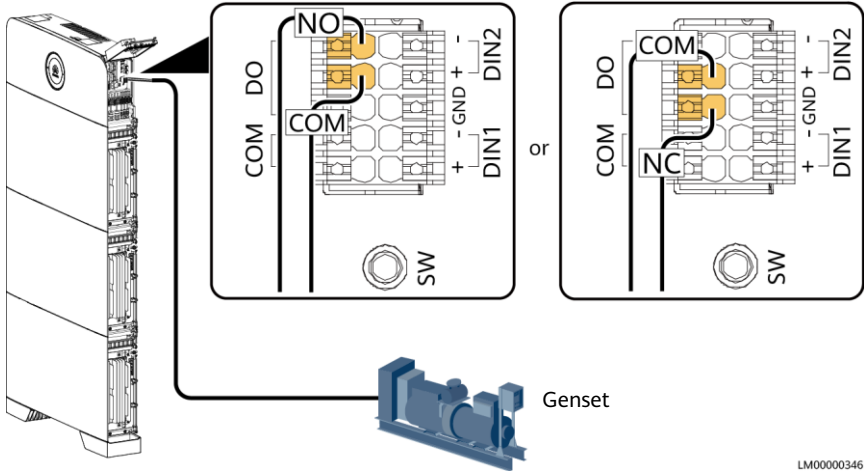
ZSH0000462

## 6.8 Installing a Genset Control Signal Cable

### NOTICE

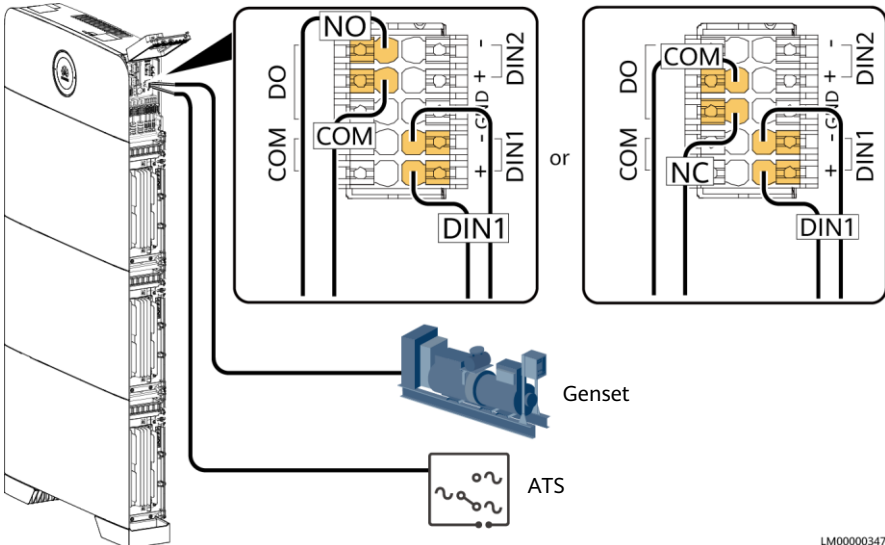
- For a generator set (genset) that starts when the dry contact is open, connect the signal cable to ports NC and COM. For a genset that starts when the dry contact is closed, connect the signal cable to ports NO and COM.
- In the genset + mains scenario, the ATS must support the mains detection function. Connect the mains detection cable of the ATS to the dry contact port DIN1.

### Genset-Only Scenario



LM00000346

### Genset + Mains Scenario



LM00000347



## 7 Parallel Connection Scenario

### 7.1 Setting the DIP Switch

1. Power on the iSitePower-Ms and set the same output parameters for the master and slave products.
2. Power off the iSitePower-Ms and set address DIP switches for the master and slave products.

Scenario		Address DIP Switch	Pin 1 (M/S)	Pin 2 (A)	Pin 3 (B)	Pin 4 (C)
Parallel products	Master	1	ON	OFF	OFF	OFF
	Slave 1	2	OFF	ON	OFF	OFF
	Slave 2	3	OFF	OFF	ON	OFF

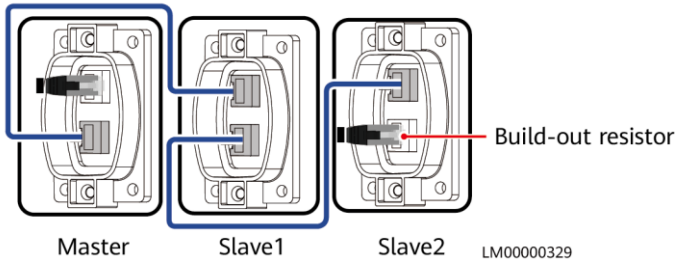
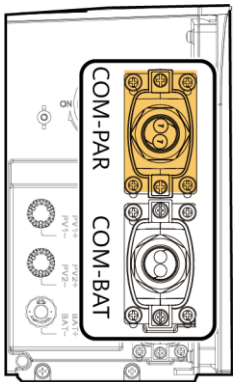
#### NOTICE

The address DIP switches take effect only after the devices are restarted. Set the DIP switches when the devices are powered off (AC and DC inputs are disconnected, and the manual ON/OFF switch is turned off).

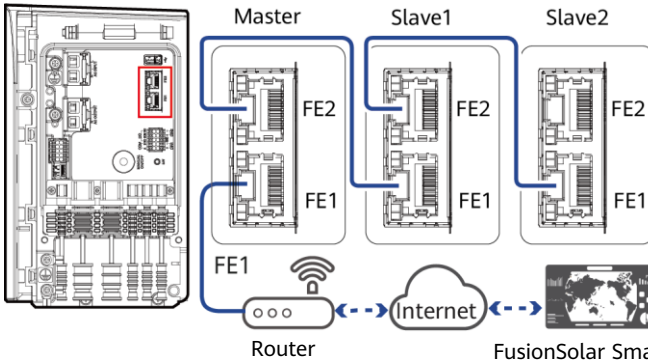
### 7.2 Installing Communications Cables Between Parallel Power Modules

#### NOTE

- When installing communications cables between parallel power modules, install build-out resistors at the first level and last level.
- The length of a single communications cable cannot exceed 3 m.
- The method of installing communications cables between power modules is the same as that between battery modules.



### 7.3 Installing Monitoring Communications Cables in a Parallel System



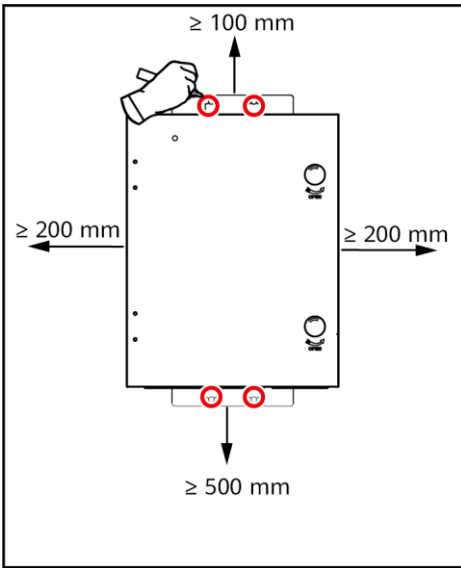
#### NOTICE

The FE1 and FE2 ports on the master and slave products are used for different functions. Connect the FE2 port on the master product to the FE1 port on the slave product. Otherwise, the parallel communication will fail.

## 7.4 Installing an AC Parallel Box

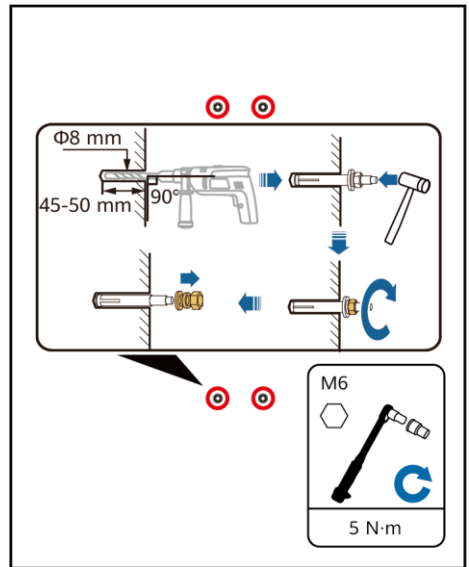
The AC parallel box is used for paralleling of power modules to increase the system power. A maximum of three power modules can be connected in parallel.

1. Mark mounting holes.



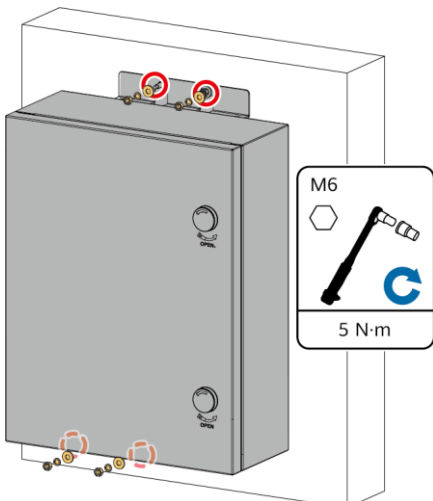
LM00000323

2. Install expansion bolts.



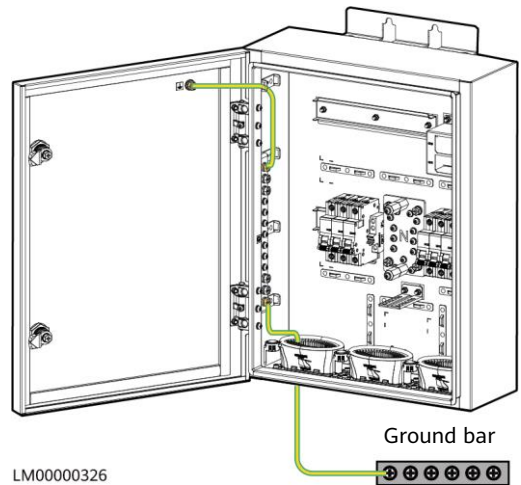
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3. Install the AC parallel box on the wall.



LM00000325

4. Install a ground cable for the AC parallel box.



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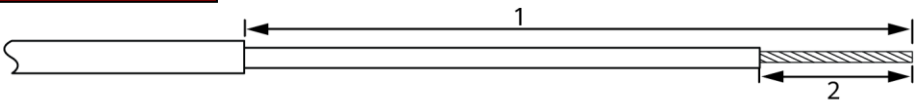


## 7.5 Preparing Cables

Prepare cables for the parallel box.

No.	Cable	Type	Conductor Cross-Sectional Area Range	Outer Diameter
1	AC input power cable from the mains input to the parallel box	Outdoor three-core copper cable (L/N/PE)	25 mm <sup>2</sup>	16–26 mm
2	Cable from the parallel box to the AC input port of the iSitePower-M	Outdoor three-core copper cable (L/N/PE)	4–6 mm <sup>2</sup>	13.7–16.9 mm
3	Cable from the AC output port of the iSitePower-M to the parallel box	Outdoor three-core copper cable (L/N/PE)	4–6 mm <sup>2</sup>	13.7–16.9 mm
4	AC output power cable from the parallel box to the load	Outdoor three-core copper cable (L/N/PE)	25 mm <sup>2</sup>	16–26 mm
5	Main ground cable of the parallel box	Outdoor single-core copper cable	25 mm <sup>2</sup>	8–11 mm

### Stripping Length



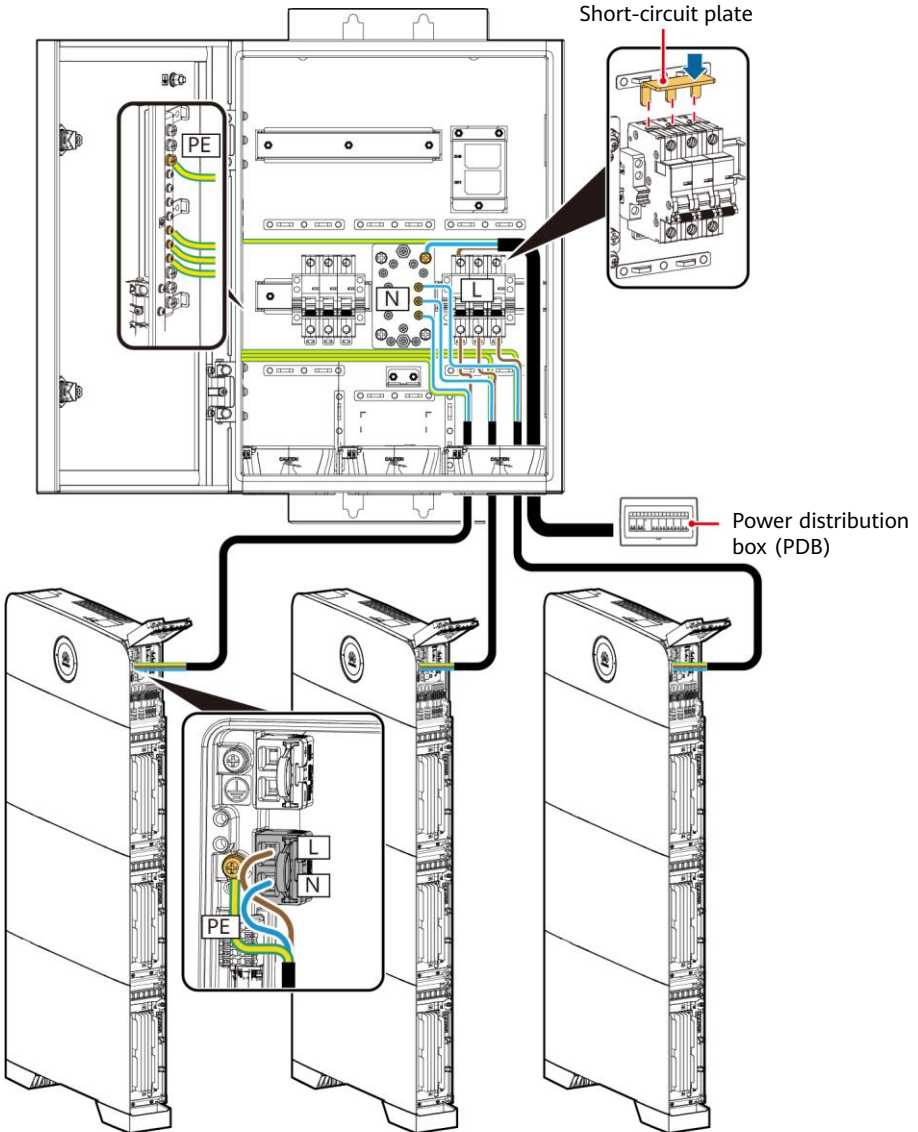
LM00000301

No.	Cable	1	2
1	AC input power cable from the mains input to the parallel box	<ul style="list-style-type: none"> <li>• L wire: 120 mm</li> <li>• N wire: 120 mm</li> <li>• PE wire: 140 mm</li> </ul>	<ul style="list-style-type: none"> <li>• L wire: 16 mm</li> <li>• N wire: 14 mm</li> <li>• PE wire: 14 mm</li> </ul>
2	Cable from the parallel box to the AC input port of the iSitePower-M	<ul style="list-style-type: none"> <li>• L wire: 410 mm</li> <li>• N wire: 340 mm</li> <li>• PE wire: 240 mm</li> </ul>	<ul style="list-style-type: none"> <li>• L wire: 12 mm</li> <li>• N wire: 7 mm</li> <li>• PE wire: 7 mm</li> </ul>
3	Cable from the AC output port of the iSitePower-M to the parallel box	<ul style="list-style-type: none"> <li>• L wire: 115 mm</li> <li>• N wire: 220 mm</li> <li>• PE wire: 370 mm</li> </ul>	<ul style="list-style-type: none"> <li>• L wire: 12 mm</li> <li>• N wire: 7 mm</li> <li>• PE wire: 7 mm</li> </ul>
4	AC output power cable from the parallel box to the load	<ul style="list-style-type: none"> <li>• L wire: 300 mm</li> <li>• N wire: 325 mm</li> <li>• PE wire: 580 mm</li> </ul>	<ul style="list-style-type: none"> <li>• L wire: 16 mm</li> <li>• N wire: 14 mm</li> <li>• PE wire: 14 mm</li> </ul>
5	Main ground cable of the parallel box	N/A	14 mm

## 7.6 Installing AC Output Power Cables in a Parallel System

### NOTICE

- Install a short-circuit plate for AC output circuit breakers.
- The three cables from the AC output circuit breakers to the power modules must be of the same length.



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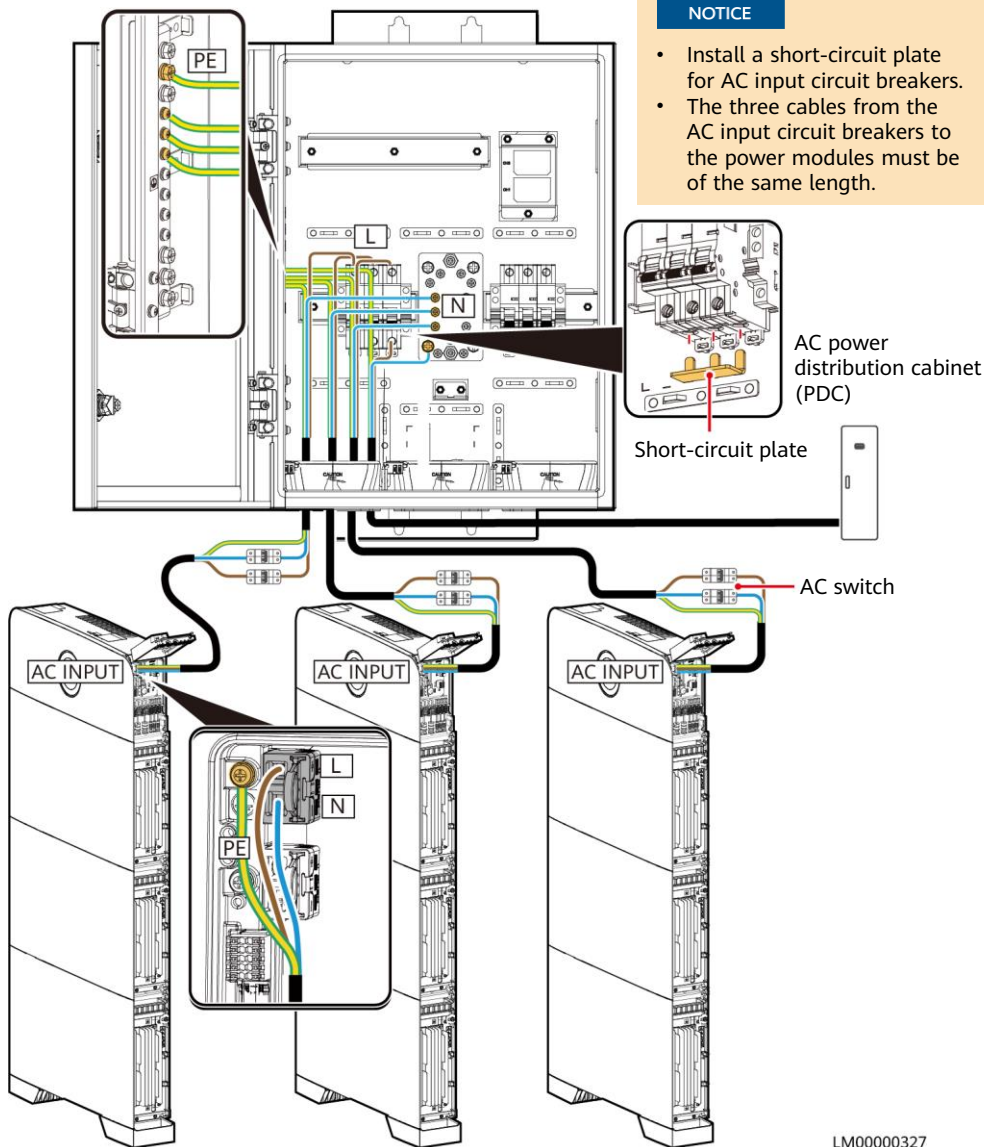
## 7.7 Installing AC Input Power Cables in a Parallel System

### **DANGER**

- Before installing an AC input power cable, ensure that the upstream AC input switch is turned off and a prominent label indicating "Do not operate" is set.
- AC switches (with a capacity of 40 A) must be installed for phases L and N of the iSitePower-M AC input. The AC switches are delivered with the iSitePower-M. Do not use a Type D circuit breaker because it cannot effectively protect products.

### **NOTICE**

- Install a short-circuit plate for AC input circuit breakers.
- The three cables from the AC input circuit breakers to the power modules must be of the same length.



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## 8 Verifying the Installation

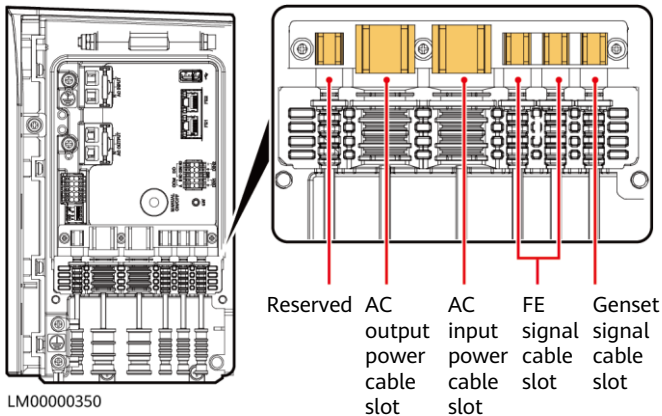
### 8.1 Verifying the Installation

No.	Expected Result
1	The installation is correct and reliable.
2	Cables are routed properly as required by the customer.
3	Cable ties are evenly spaced, and no sharp burrs are left at the cut points.
4	Power cables, signal cables, and ground cables are connected correctly and securely.
5	The DC SWITCH and all switches connected to the product are OFF.
6	Unused terminals and ports are covered by watertight caps.
7	The disassembly wrench is placed in the original position in the decorative cover.
8	The installation space is proper, and the installation environment is clean and tidy.

### 8.2 Arranging Cables

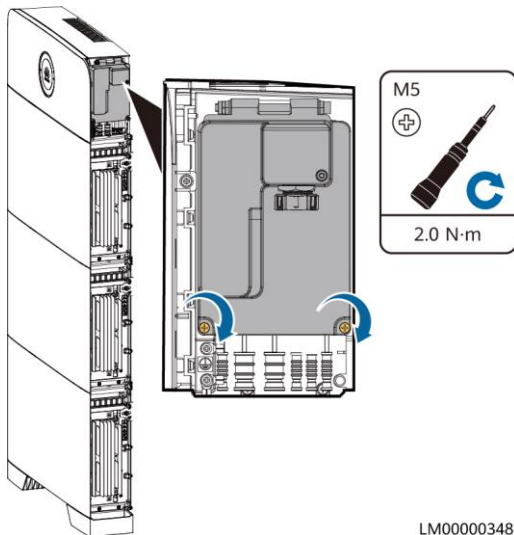
#### NOTICE

Check that the cables are correctly connected. Then fasten the cables to the corresponding cable slots.

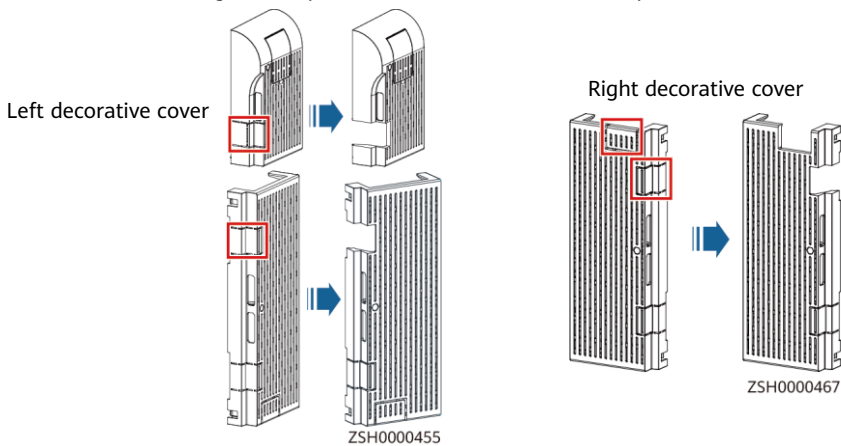


## 8.3 Follow-up Procedure

1. Close and lock the maintenance compartment door.



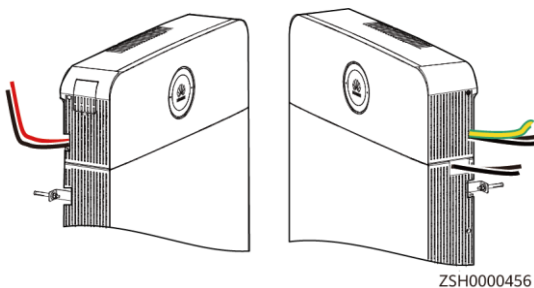
2. To facilitate cabling, cut off part of the decorative cover as required.



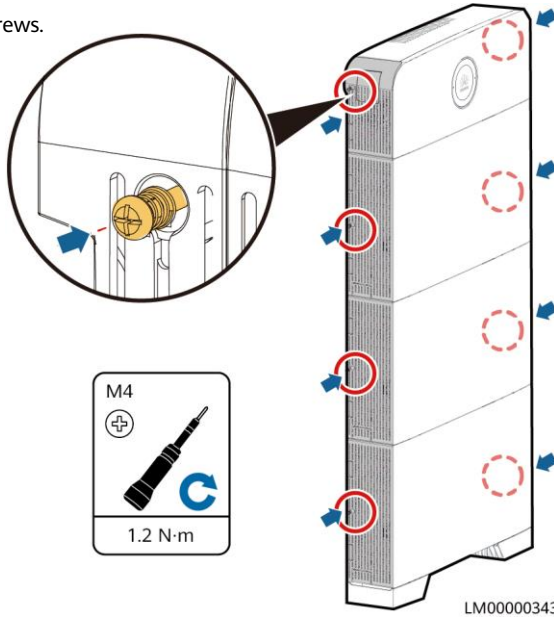
3. Route the cables out of the cable holes.

### NOTICE

The outlet positions shown in the figure are for reference only. Select an appropriate cable outlet based on the actual cable thickness.



4. Tighten the screws.



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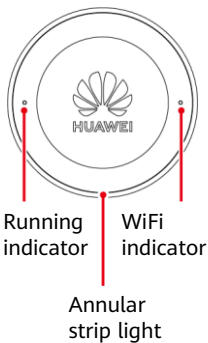
## 9 Power-On Commissioning

### 9.1 Powering On the System

#### NOTICE

- The product must be powered on within 24 hours after being unpacked. During maintenance, the power-off time cannot exceed 24 hours.
- Before the first power-on, press the manual ON/OFF switch.

Set the DC SWITCH of the power module and the AC input switch to ON. After the initial installation and power-on, observe the indicators to check the running status.



Indicator	Status	Description
Running indicator	Steady on in green	The power system is running properly.
	Off	<ul style="list-style-type: none"> <li>• The power system is not running.</li> <li>• The power system is faulty.</li> <li>• The power system has no input current.</li> </ul>
	Steady on in red	The power system is running properly, but an alarm is generated.
WiFi indicator	Off	The WiFi function is abnormal.
	Steady on in green	The WiFi function is normal.
Annular strip light	Steady on in green	Indicates the battery capacity and that the product is discharging.

## 9.2 Downloading and Installing the App

Method 1: Search for FusionSolar on Huawei AppGallery and download the latest installation package.

Method 2: Scan the following QR code and download the latest installation package.



FusionSolar

### NOTICE

The app supports only mobile phones running Android 8.0 or later.

## 9.3 New Site Deployment

Commission products using the app by referring to the *iSitePower-M (MAP05A1, MAB05B1) User Manual* or *FusionSolar App Quick Guide (iSitePower-M)*. You can obtain the user manual and quick guide by scanning the QR codes.



User Manual



Quick Guide (App)

# 10 Statement

1. The information in this document is subject to change. Every effort has been made in the preparation of this document to ensure accuracy of the contents. All statements, information, and recommendations in this document do not constitute a warranty of any kind. You can download this document by scanning the QR code.
2. Before installing the device, read the user manual carefully to get familiar with product information and safety precautions.
3. Only certified electricians are allowed to operate the device. Operation personnel must wear proper personal protective equipment (PPE).
4. Before installing the device, check that the package contents are intact and complete against the packing list. If any item is missing or damaged, contact your dealer.
5. The device damage caused by the violation of instructions in this document is not covered under warranty.
6. The cable colors involved in this document are for reference only. Select cables in accordance with local cable specifications.

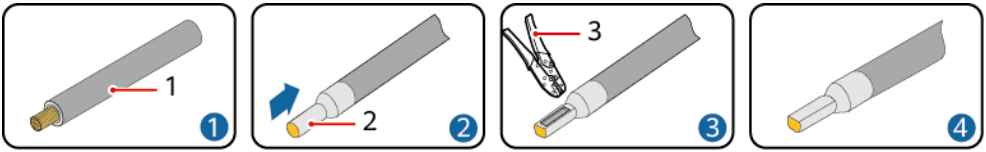


Quick Guide (iSitePower-M)

# Appendix

## Preparing Terminals

### Preparing a Cord End Terminal



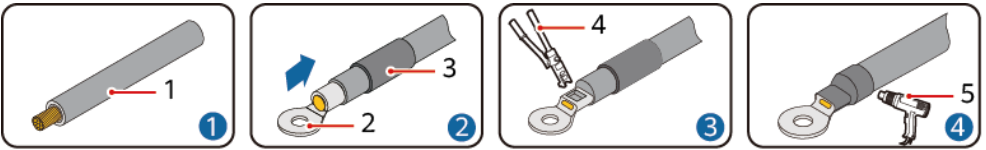
HD00ZC1001

(1) Cable

(2) Cord end terminal

(3) Crimping tool

### Preparing an OT Terminal



HD00ZC1002

(1) Cable

(2) OT terminal

(3) Heat-shrink tubing

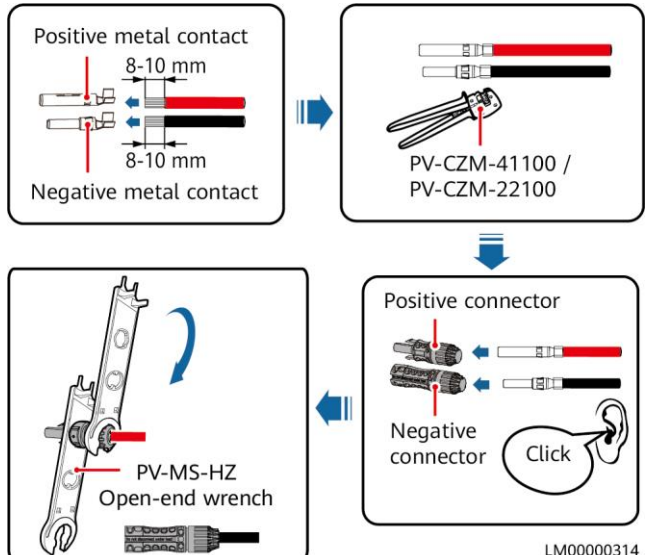
(4) Hydraulic pliers

(5) Heat gun

### Preparing PV Input Terminals

#### NOTICE

- A PV-CZM-41100 crimping tool is recommended.
- Ensure that the cable cannot be pulled out after being crimped.
- Use the wrench shown in the figure to tighten the locking nut. When the wrench slips during the tightening, the locking nut has been tightened.



LM00000314



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