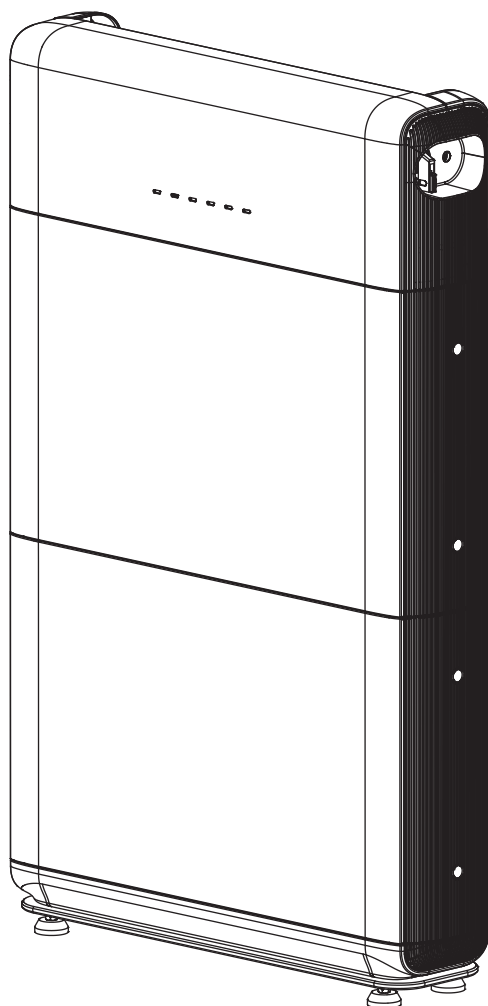
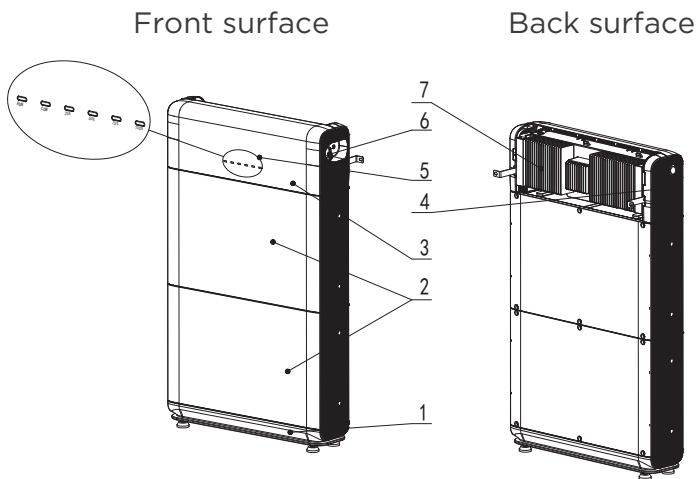


Energy Storage System
H1-(5-20)-E1

Quick guide

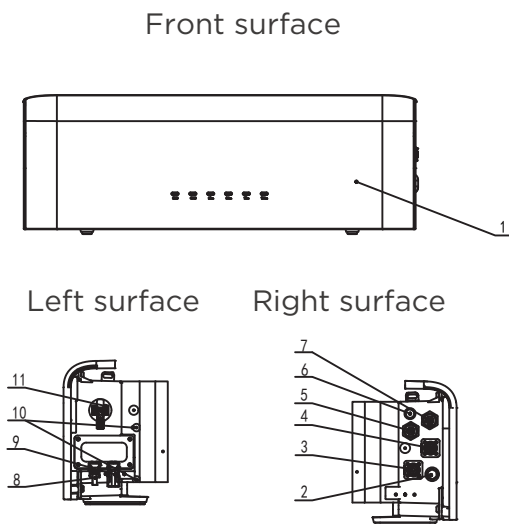


System Appearance



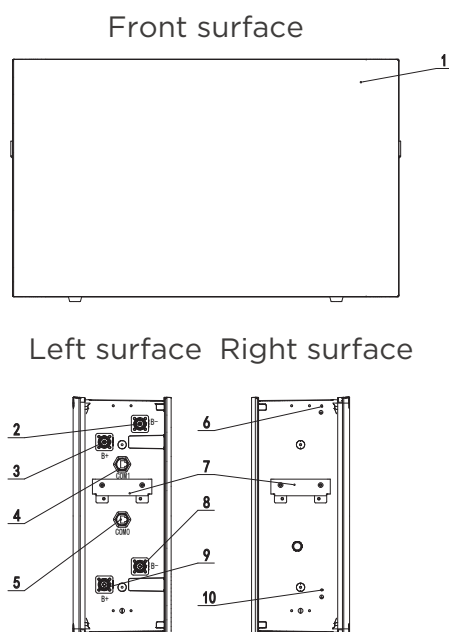
- 1-Base
- 2-Energy storage module
- 3-Bidirectional DC/DC unit
- 4-Side cover
- 5-LED indicator
- 6-DC switch
- 7-Heat sink

Bidirectional DC/DC unit appearance



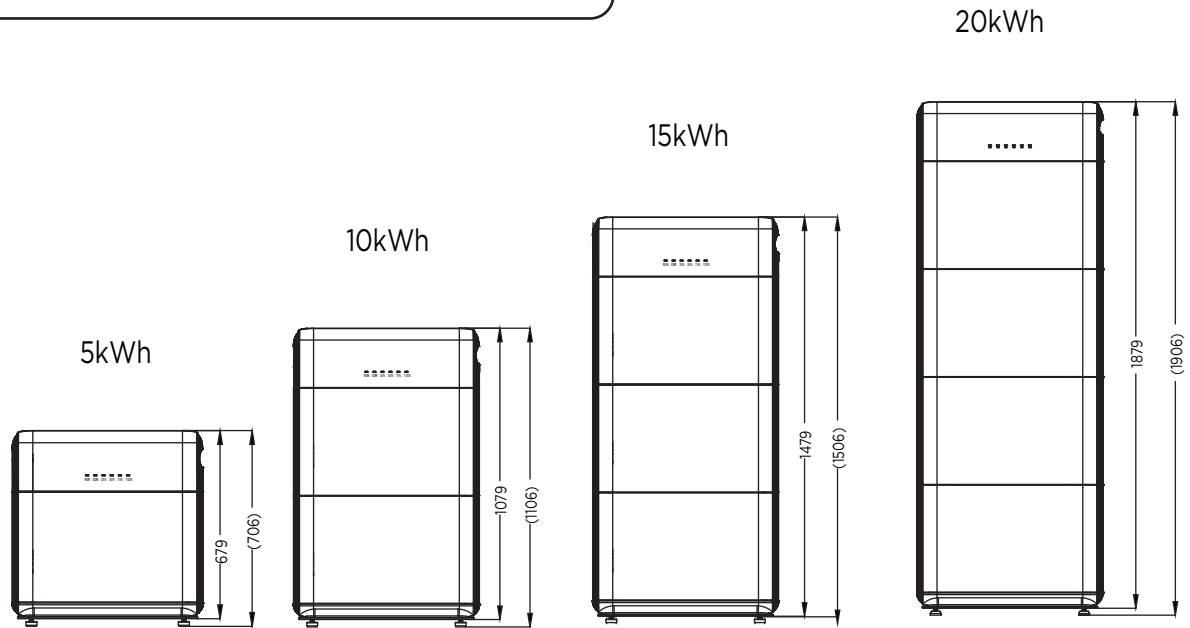
- | | |
|---------------------------------|------------------------------|
| 1 Bidirectional DC/DC unit | 2 Ventilation valve |
| 3 BAT cascading terminal(B+) | 4 BAT cascading terminal(B-) |
| 5 BAT communications port(COM0) | 6 Black startup switch |
| 7 INV communications port(COM1) | 8 BAT output terminal(BAT-) |
| 9 BAT output terminal(BAT+) | 10 Grounding hole |
| 11 DC switch | |

Energy storage module appearance



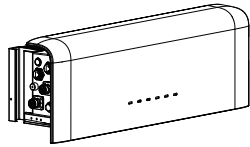
- | | |
|------------------------------|------------------------------|
| 1-Energy storage module | 2-BAT cascading terminal(B-) |
| 3-BAT cascading terminal(B+) | 4-Output communications port |
| 5-Input communications port | 6-Grounding hole |
| 7-Side handle | 8-BAT cascading terminal(B-) |
| 9-BAT cascading terminal(B+) | 10-Grounding hole |

System capacity expansion description



Check the Packing list of bidirectional DC/DC unit

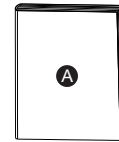
Please note the following accessories



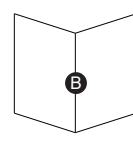
Bidirectional DC/DC unit



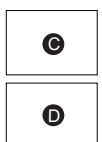
Left protective cover



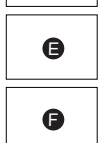
A User manual



B Quick guide



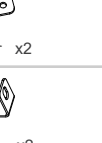
C Warranty card



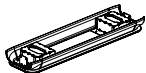
D Quality certificate



E Delivery inspection report



F Packing list



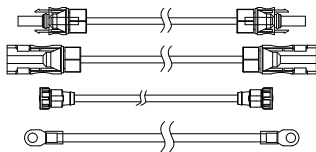
Base



base protective cover x2



Right protective cover



System cable (optional)

Battery power cable BAT+ (Red)

Battery power cable BAT- (Black)

Battery communication cable

Ground cable

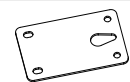
Heavy duty leveling screw leg x4 (optional)



SEM screws M4 x16



Expansion bolt M6*60 x2



Side connector x2

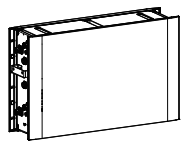


Anti-tip bracket x2

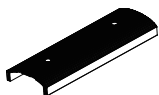


D4 Disassembly tool

Check the Packing list of energy storage module



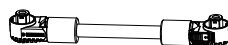
Energy storage module



Protective cover



Battery power cable B+ (Red)



Battery power cable B- (Black)

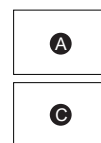


Battery communication cable

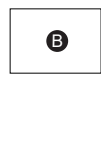


Ground cable

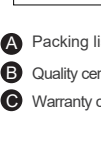
System cable (optional)



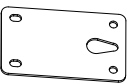
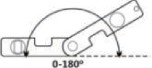
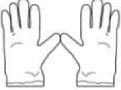
A Packing list



B Quality certificate



C Warranty card

 Side connector x2	Preparation for Installation Tools			
 SEM screws M4 x10	 Hammer drill Recommend Drill @ $\Phi 8\text{mm}$	 Sleeve	 Level	 ESD gloves
	 4mm Screw driver	 Mask	 Measuring tape	 Safety goggles

Environmental Conditions

 Max. +50°C	 Min. -10°C	 RH+5%~+95%
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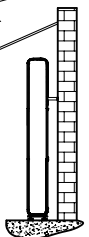
Installation Environment



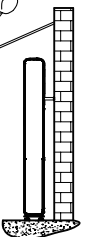




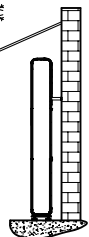




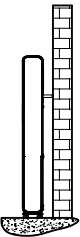
✓



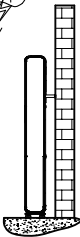
✓



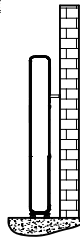
✓



✗



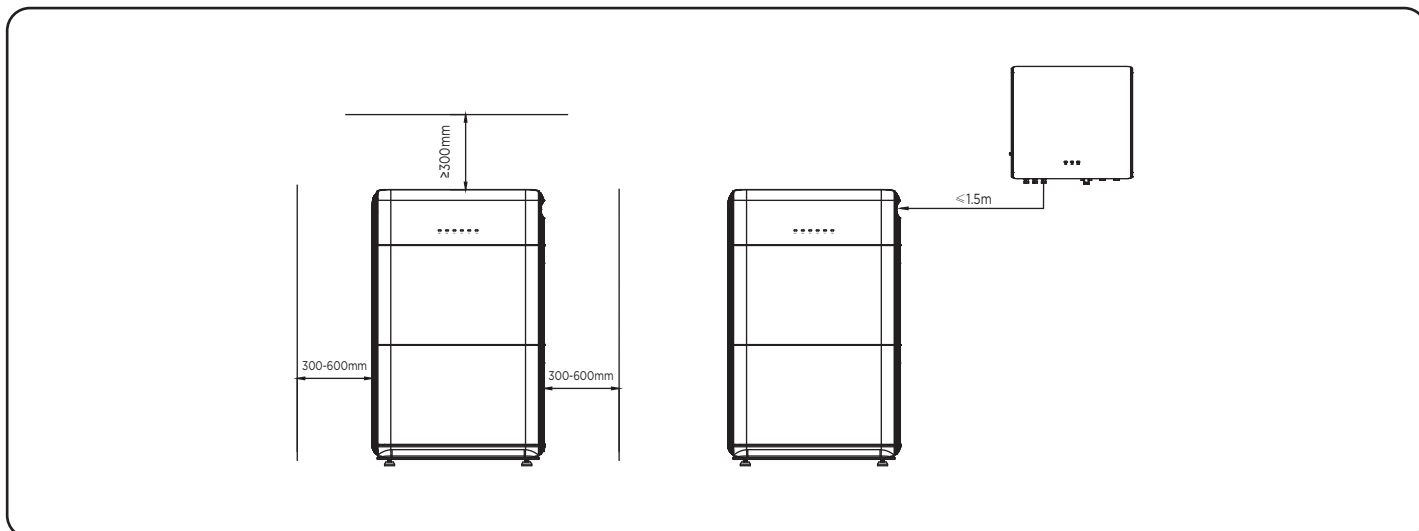
✗



✗

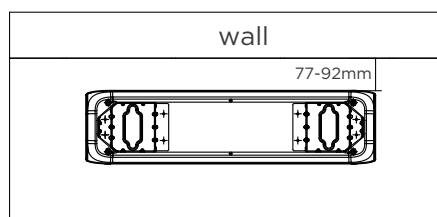
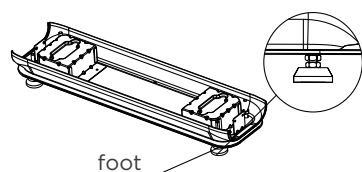
- Choose a dry, clean, neat and convenient location for installation.
- There are no inflammable and explosive objects near the installation position of the product.
- The highest altitude of the installation environment is 2000m.

Installation Space



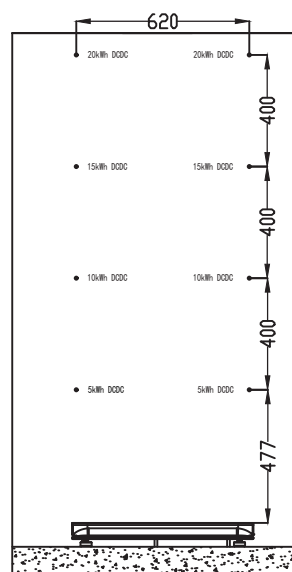
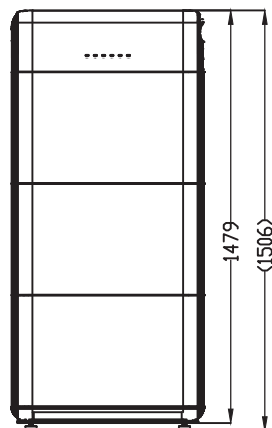
Energy Storage System Installation

Base installation



Install the four foot cups under the base, align the base with the wall, and ensure that the base is 77mm-92mm away from the wall surface. Adjust the four foot cups of the base until it is level.

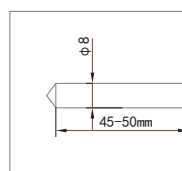
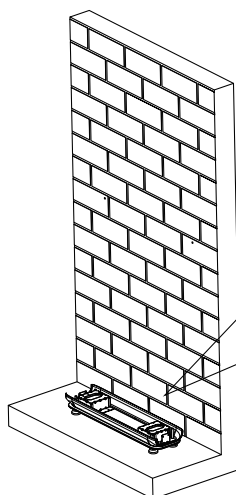
Mounting hole dimensions



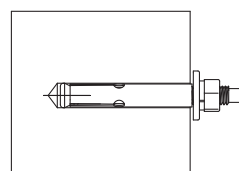
Align the bottom edge of the marking-o template with the surface of the base, determine the drilling hole positions on the wall for securing the bidirectional DC/DC unit, and mark the positions using a marker.

Installing expansion bolts

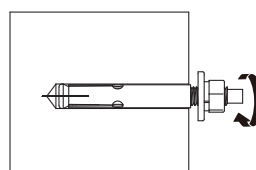
NOTE: The expansion bolts delivered with the battery are mainly used for solid concrete walls. If other types of walls are used, ensure that the walls meet the loadbearing requirements (one energy storage module weighs 50 kg) and select the bolts by yourself.



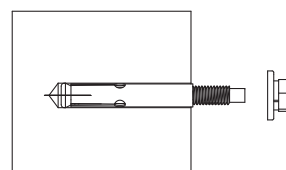
(1) Mounting hole



(2) Installing expansion bolt

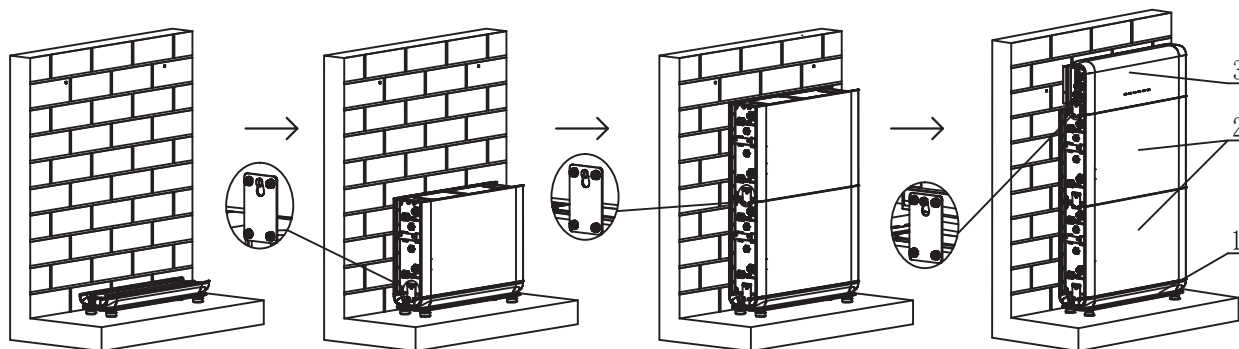


(3) Loosen the nut



(4) Remove the nut

Installing product modules



1-Base

2-Energy storage module

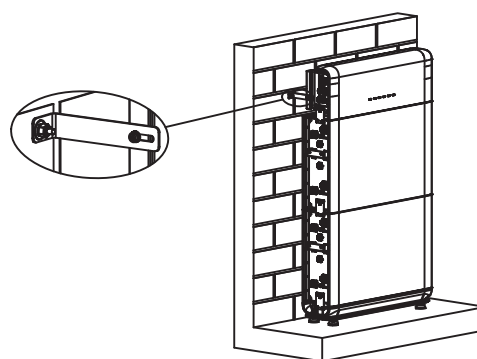
3-Bidirectional DC/DC unit

Install the remaining energy storage modules and bidirectional DC/DC unit from bottom to top. Install the connectors on both sides, and tighten the 8 screws on both sides.

Anti-tip bracket installation

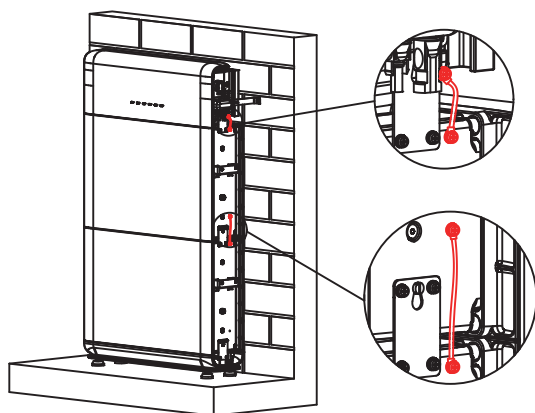
⚠ WARNING

The bidirectional DC/DC unit must be fixed on the wall.



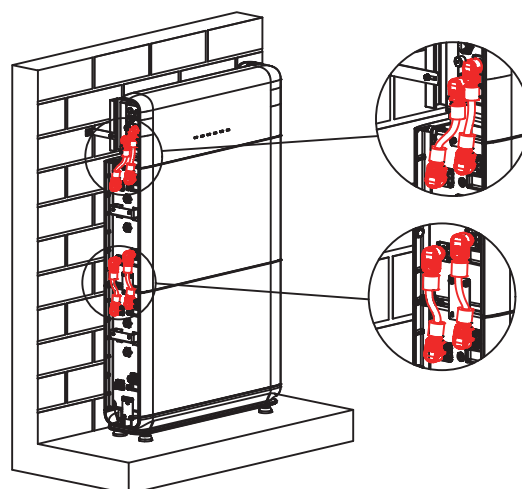
Electrical Connection

Protection grounding cable connection



Connect the ground points of modules in sequence, and secure the ground cable using a ground screw.

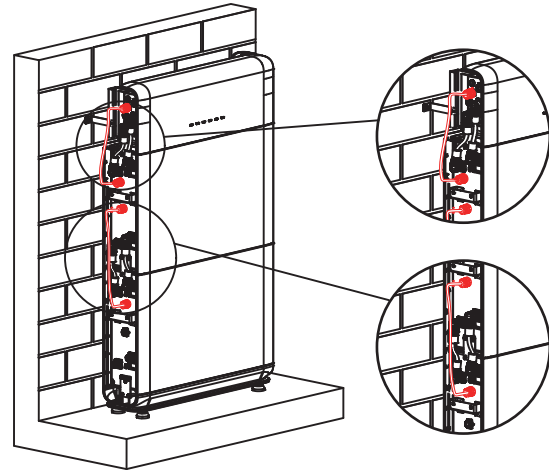
Installing internal DC terminals



Insert the positive and negative connectors delivered with the battery into the positive and negative battery cascading terminals (B+ and B-).

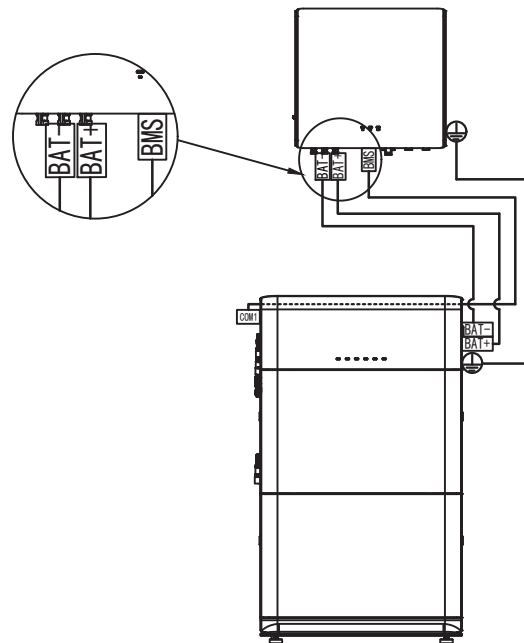
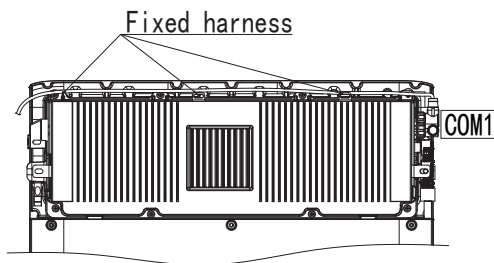
Connecting internal communication cables

Connecting communication cables between the bidirectional DC/DC unit (COM0) and energy storage modules (COM1).



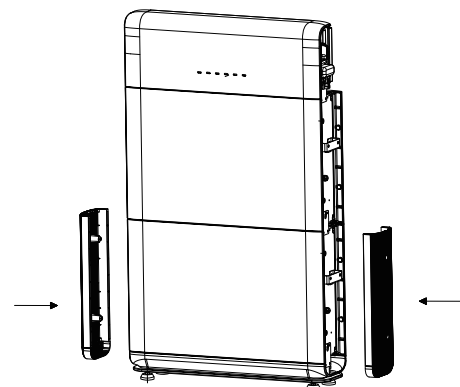
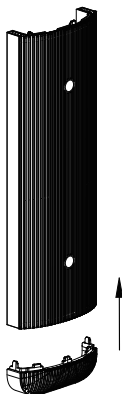
External electrical connection

Connect the bidirectional DC/DC unit Com Terminal to the inverter BMS port for communication between inverter and battery system. The following is an example of the storage inverter:

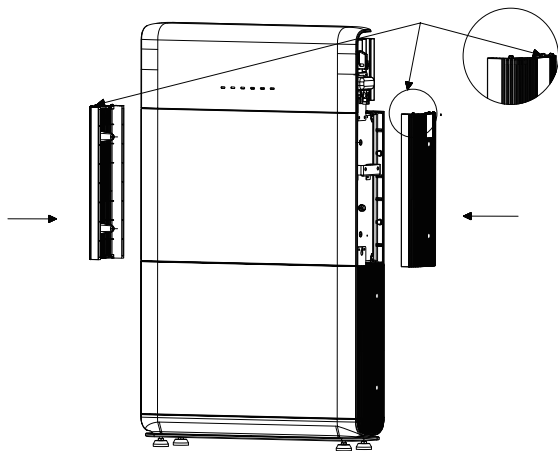


Install the protective cover

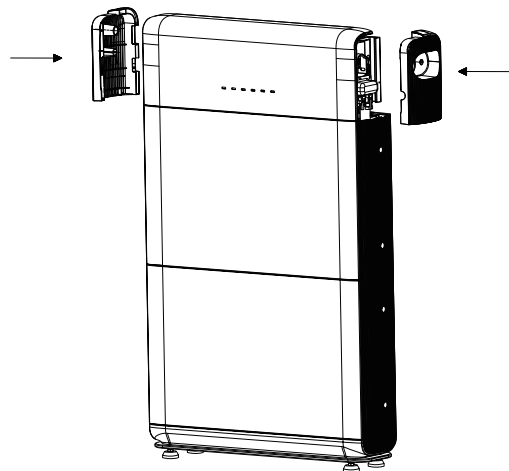
1. Assemble the base protective cover and battery protective cover together.
2. Install the base protective cover and battery protective cover on the battery module body.



3. Install the battery protective cover on the battery module body, The edge with 3 protruding points faces up.



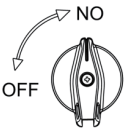
4. Install the protective cover of the energy storage module on its body.



5. Tap the corners of the protective cover to ensure it is in place before locking the screws.



Key Operation

Power on	1. Turn on DC Switch 2. Press the start key more than 10s	 
Power off	1. Press the start key more than 30s 2. Turn off DC switch (waiting more than 5 min)	 