

Low Voltage Battery

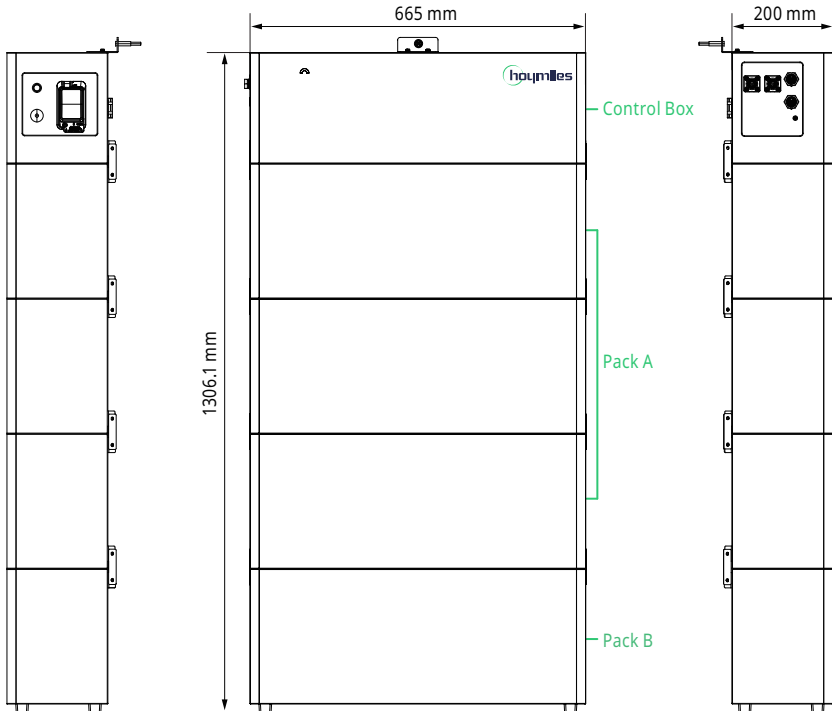
Quick Installation Guide

LB-5S-G1
LB-10S-G1
LB-15S-G1
LB-20S-G1

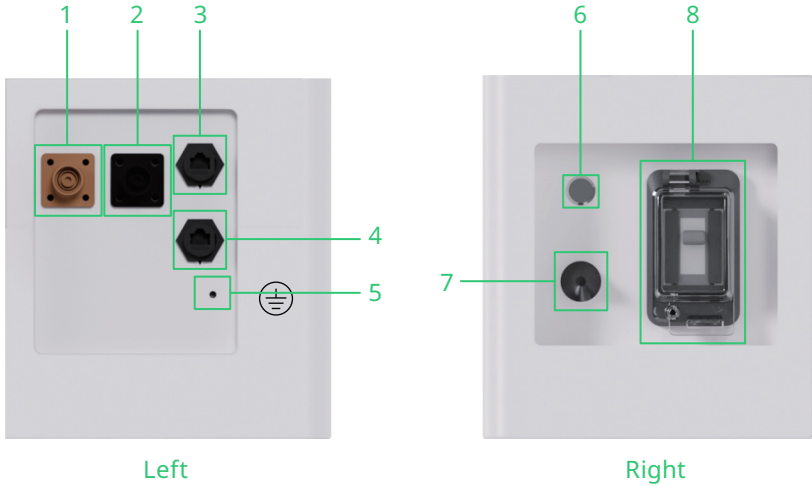
1 General Declaration

- Read this quick installation guide carefully before installation to learn about product features and safety precautions.
- Only qualified personnel are allowed to install, operate, and maintain the equipment.
- Installers should be familiar with local laws and regulations.
- Check the deliverables for correct model, complete contents, and intact appearance. Contact the manufacturer if any damage is found or any component is missing.
- Installers must use insulated tools and wear personal protective equipment.
- As required by local regulations, an overcurrent protection and isolation device should be installed between the inverter and the battery. The cable needs to be prepared by the installer.
- Before installation, ensure that the battery pack is turned off, and any associated circuit breakers and disconnect switches are turned off.
- The information in this quick installation guide is subject to change due to product updates or other reasons.



2 Product Overview



* The quantity of Pack A can be 0, 1, 2, and 3.

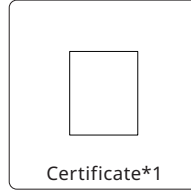
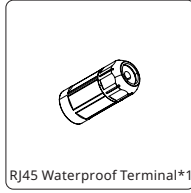
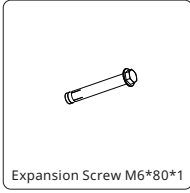
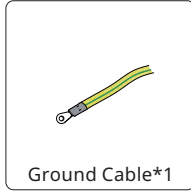
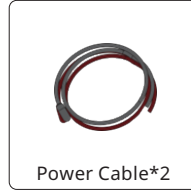
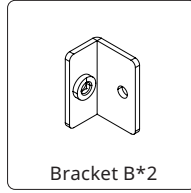
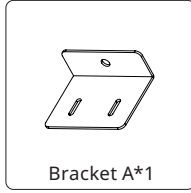
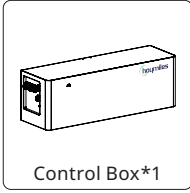


No.	Description
1	Positive Terminal
2	Negative Terminal
3	PCS Communication Terminal (RS485/CAN) (COM1)
4	Reserved (COM2)
5	Ground Terminal
6	Reset
7	Wi-Fi
8	Circuit Breaker

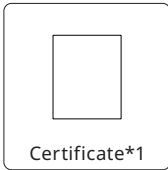
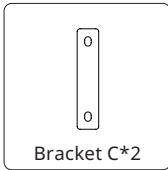
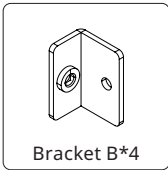
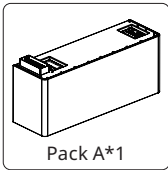
Pin Definition	Terminal	1	2	3	4	5	6	7	8
	COM1	L-485-B	L-485-A	GND-L	CAN1H	CAN1L	GND-L	NC	NC
	COM2	E-485-B	E-485-A	GND-L	NC	NC	GND-L	E-485-A	E-485-B

3 Packing List

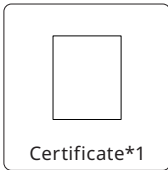
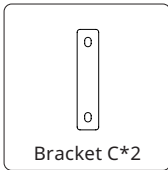
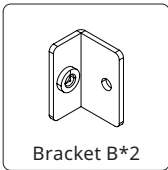
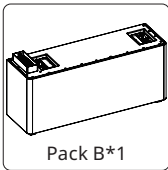
Control Box Packing list



Pack A Packing list



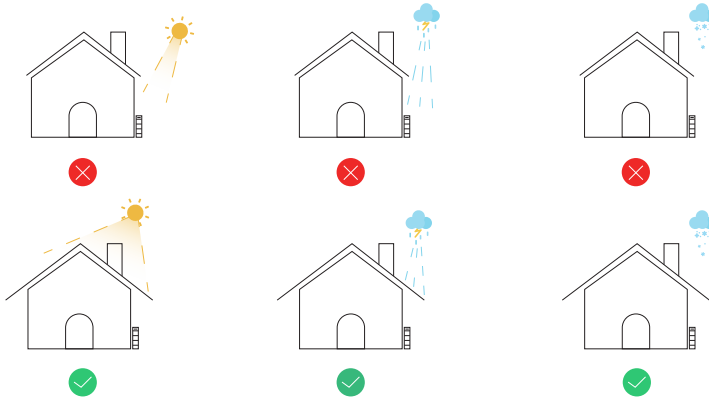
Pack B Packing list



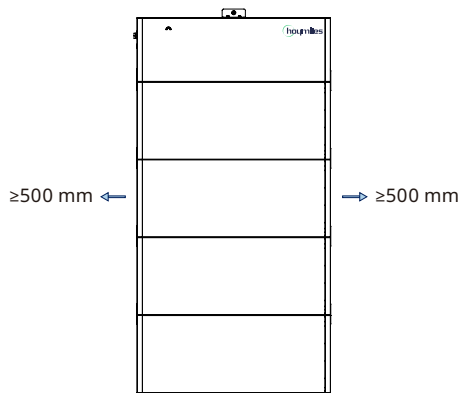
4 Installation Instruction

Environmental Requirements

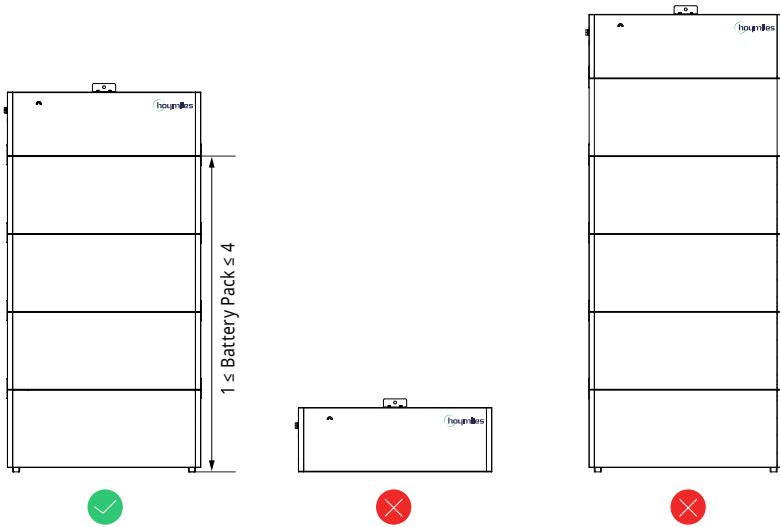
1. The recommended ambient temperature is between 15°C and 35°C.
2. The recommended relative humidity is between 10% and 95%, without condensing.
3. The altitude should be no more than 2000 m.
4. If the product is installed outdoors, it should meet the following requirements, including but not limited to:
 - a) Avoid direct sunlight.
 - b) Avoid rain, snow, and flood.
 - c) Under the shelter if possible.
5. If the product is installed indoors, it should meet the following requirements, including but not limited to:
 - a) Keep distance from doors, windows, driveway, or other batteries.
 - b) Keep away from the heating device.
 - c) Keep away from corrosive chemicals.



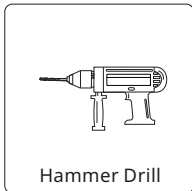
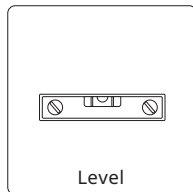
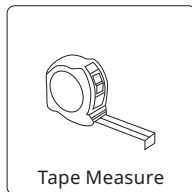
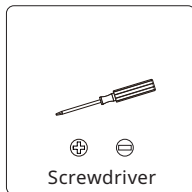
Space Requirements



Stackable Quantity



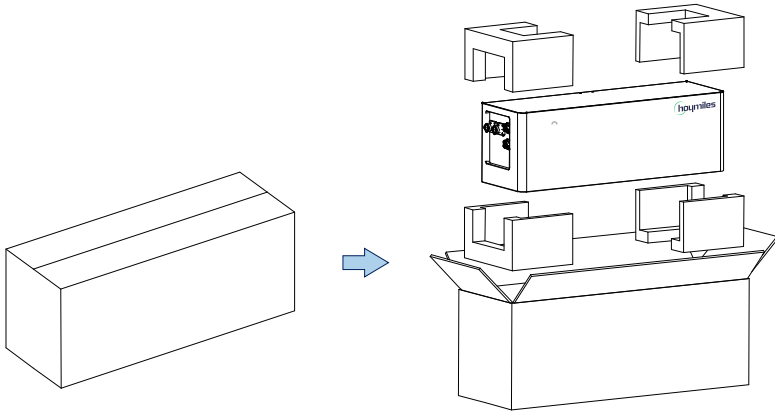
Installation Tools



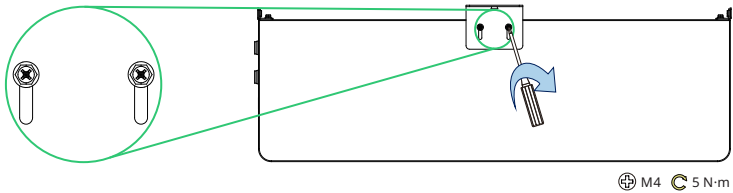
Installation Steps

Step 1 Unpacking

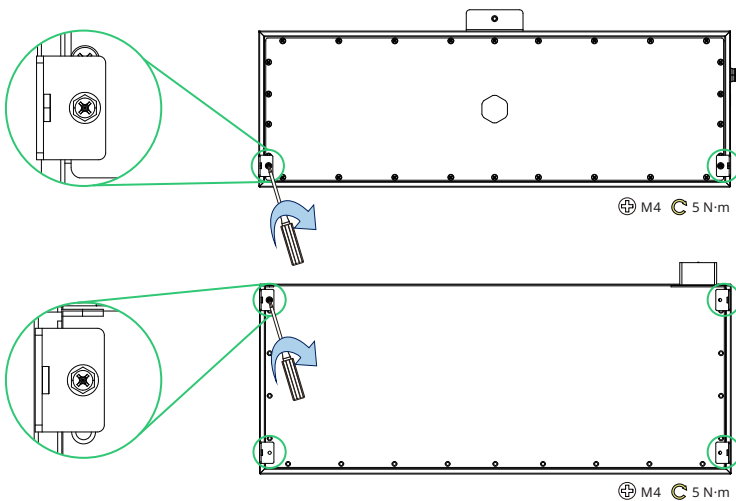
The diagram is an example of unpacking the control box package, and the steps of unpacking Pack A and Pack B are the same.

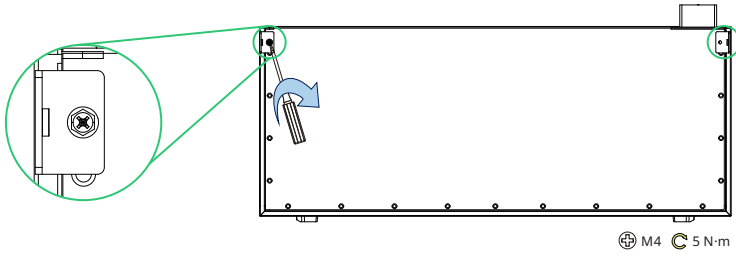


Step 2 Installing Bracket A



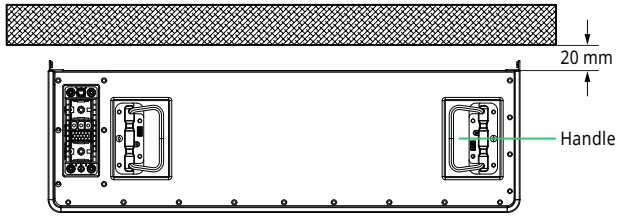
Step 3 Installing Bracket B





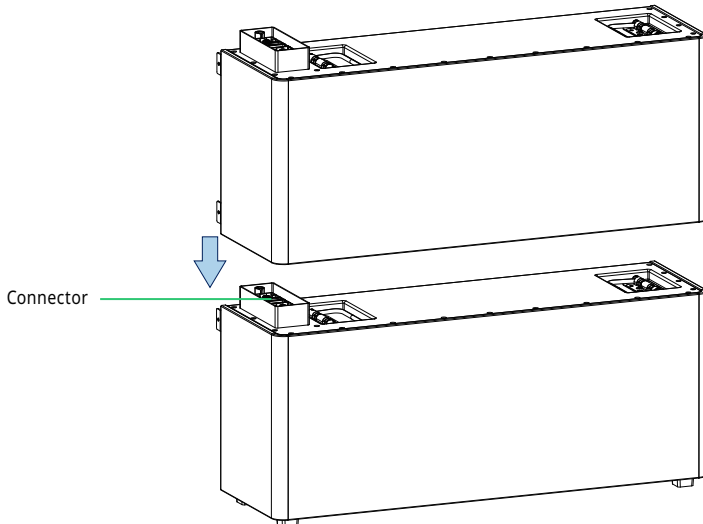
Step 4 Placing Pack B

1. Use a detector to detect whether there are cables or water tubes behind the wall.
2. Place Pack B on a level ground (0° - 3°), parallel to the wall, and keep a distance of at least 20 mm. The handles are used to lift the pack off the ground and move it.



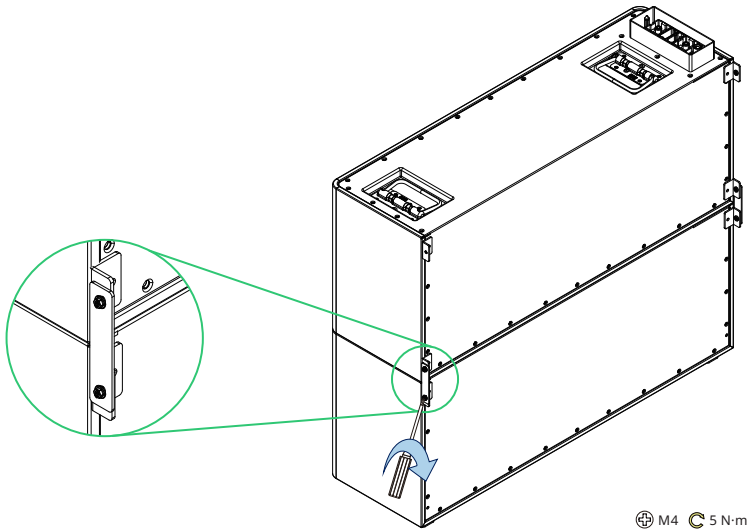
Step 5 Installing Pack A

1. Align the connector first.
2. Slowly put down the connector end of Pack A until the connector ends of the two packs are successfully connected.
3. Finally put down the other end of Pack A.

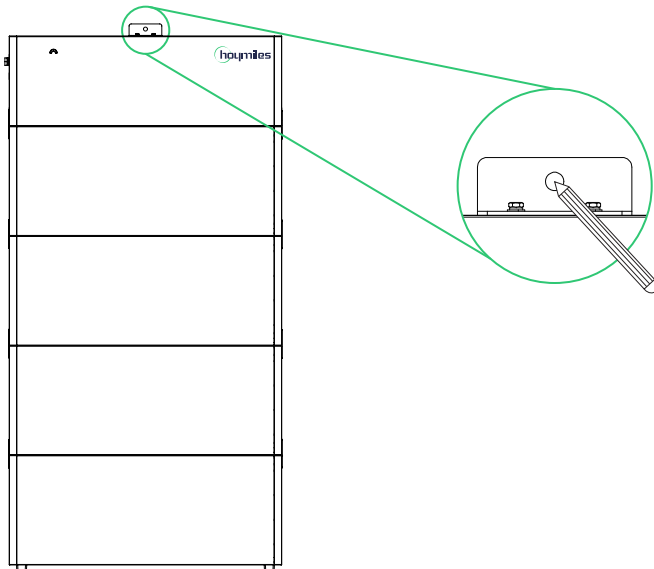


Step 6 Securing the Connection

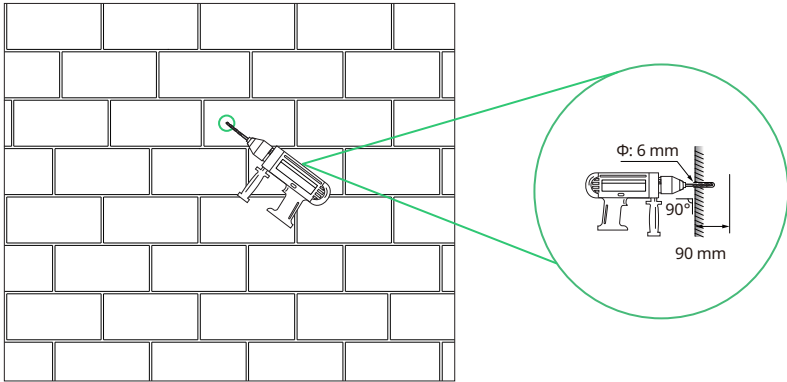
Use bracket C to secure the connection between Pack A and Pack B. The remaining battery packs can be stacked layer by layer as shown in these figures.



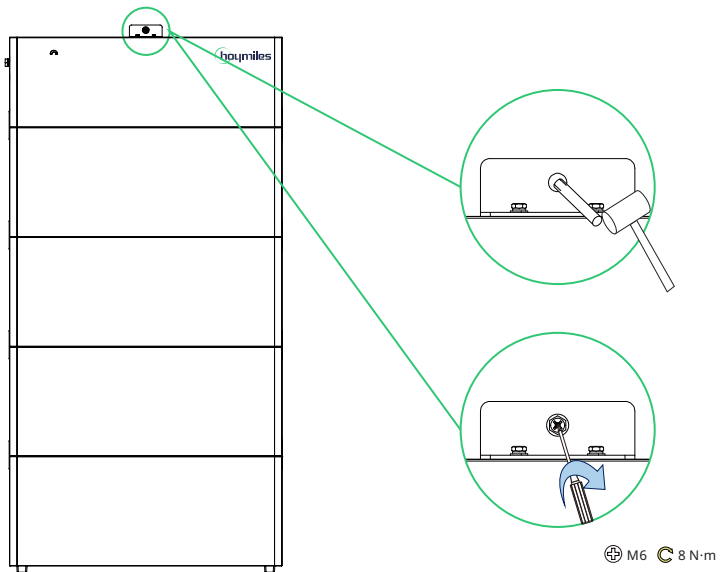
Step 7 Marking the Hole Position



Step 8 Drilling the Hole

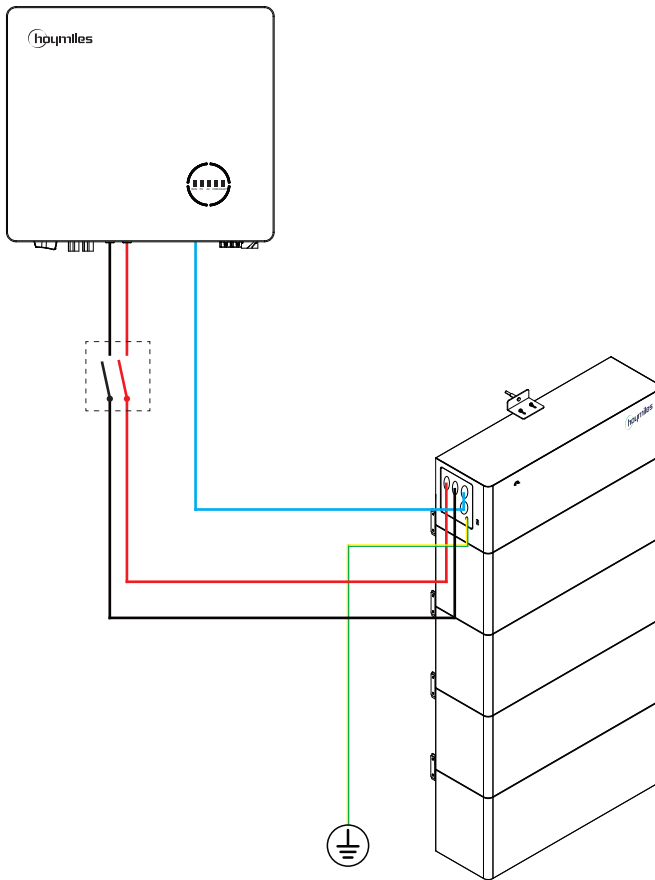


Step 9 Completing the Installation

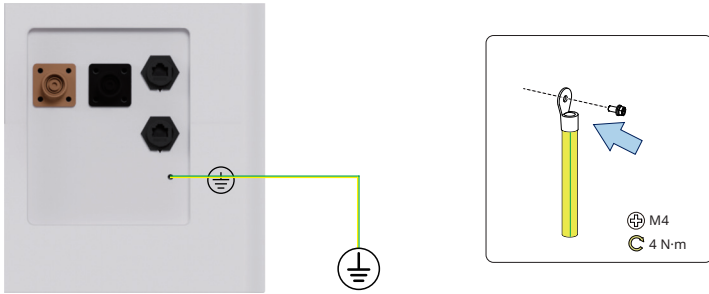


5 Electrical Connection

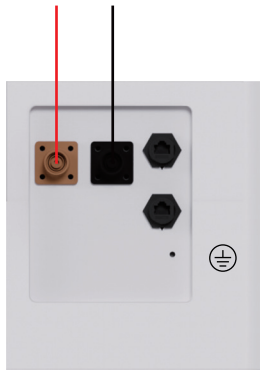
Cable	Specification
Ground Cable	6 mm ² /10 AWG
Positive Cable	25 mm ² /4 AWG
Negative Cable	25 mm ² /4 AWG
Communication Cable	Standard communication cable



Step 1 Ground Cable Connection

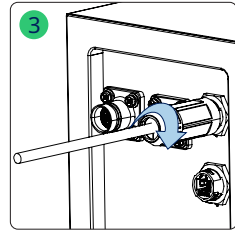
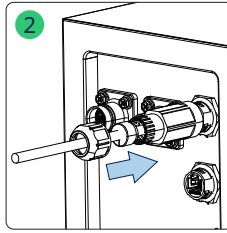
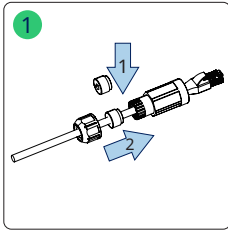


Step 2 Power Cable Connection



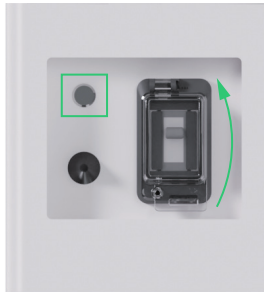
Step 3 Communication Cable Connection





Step 4 Power-on

1. Open the cover of the circuit breaker and turn on the circuit breaker.
2. Press the "Reset" button for 3s. The indicator will flash red, green, blue, yellow, purple, and cyan in turn every 300 ms when the battery is powered on and started.



Indicator	Indicator Status	Battery Status
	Flashing green every 1s.	The battery is charging.
	Solid green.	The battery is discharging.
	Solid blue.	The battery is in standby.
	Solid Red.	A fault occurs.
	The indicator is off.	1. The battery is turned off. 2. The battery is in sleep mode.
	Alternately flashing red and green every 300 ms.	The battery is upgraded.
	Alternately flashing red and blue every 300 ms.	Address assignment.
	Flashing red, green, blue, yellow, purple, and cyan in turn every 300 ms.	1. The battery is powered on and started. 2. Reset.



User Manual in the QR code or at
www.hoymiles.com/resources/download/



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