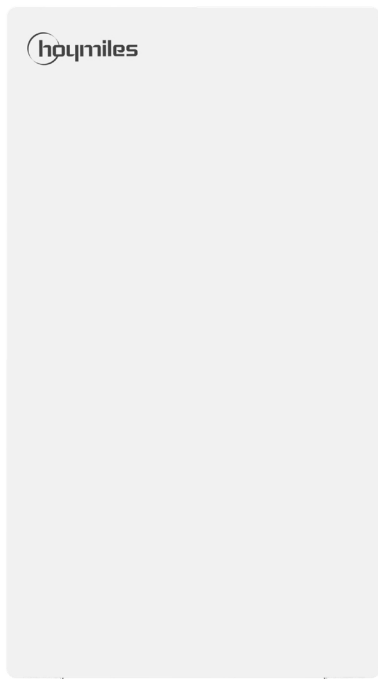




Low Voltage Battery

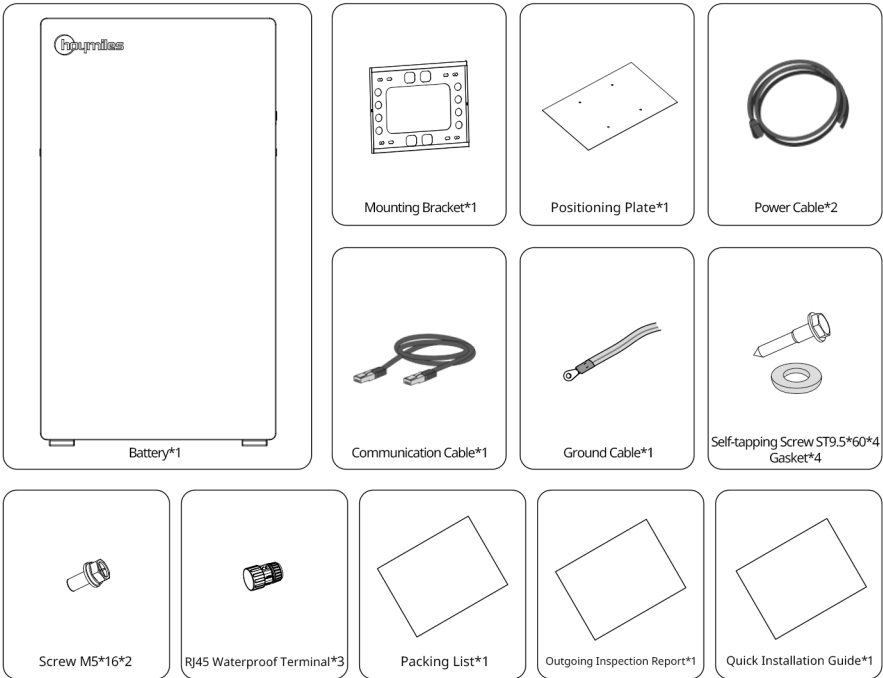
Quick Installation Guide

HBX-10LV-USG1

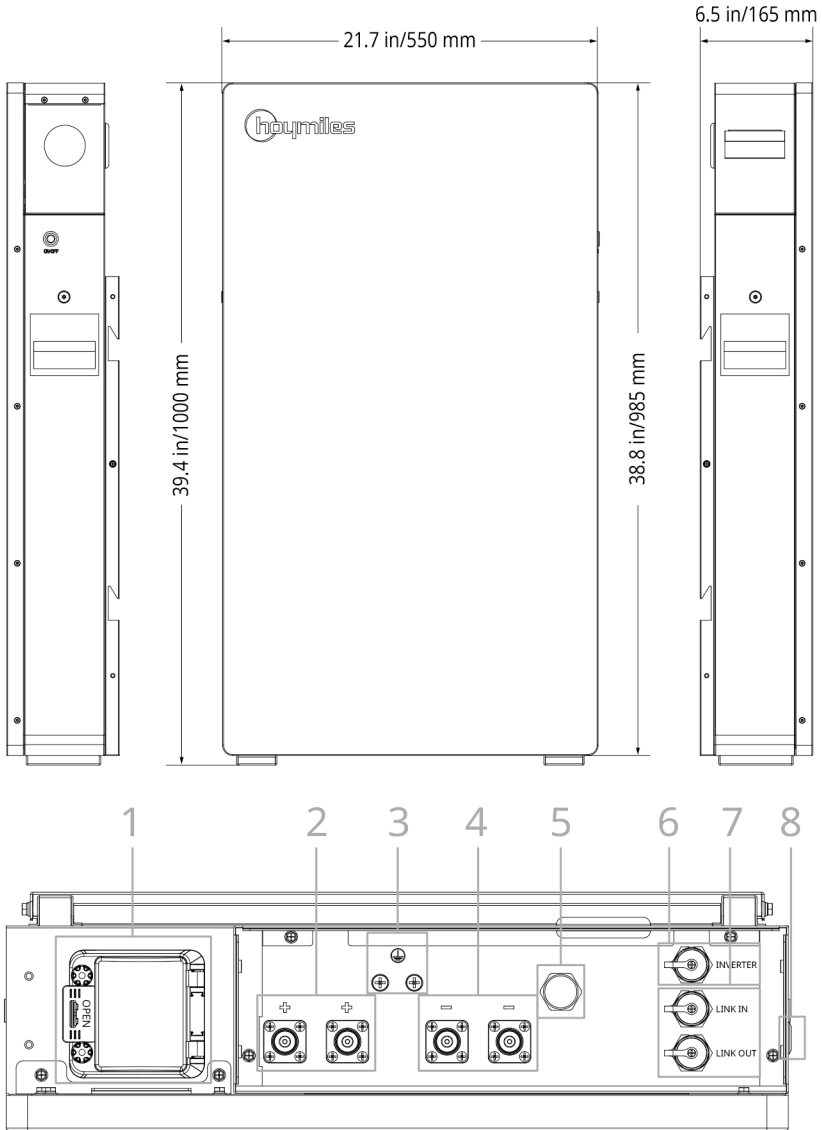
1 General Declaration

- 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 well-trained to fully understand grid-connected photovoltaic power systems and national/regional standards.
- 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, and also among parallel batteries. 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 Packing List



3 Product Overview



1. 125 A DC Breaker

2. Positive Terminal

3. GND

4. Negative Terminal

5. Breather Valve

6. Inverter Communication Terminal

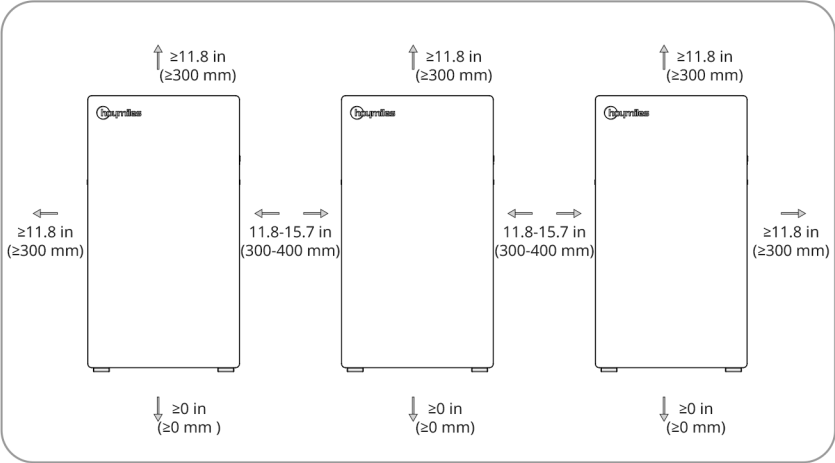
7. Parallel Communication Terminal

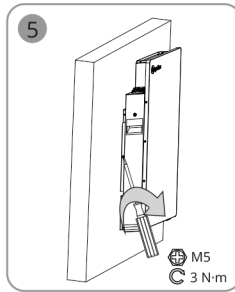
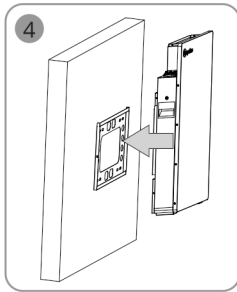
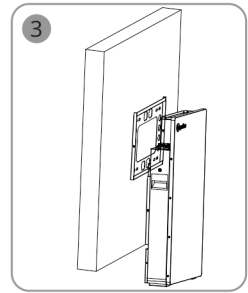
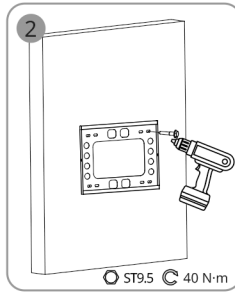
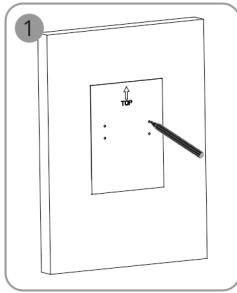
8. Power Switch

Pin Definition	Description	1	2	3	4	5	6	7	8
	Inverter	NC	RS485-A	RS485-B	CAN-H	CAN-L	GND	NC	NC
	Link In	NC	BMS- RS485-A	BMS- RS485-B	DI+	DI-	NC	BMS- CAN-H	BMS- CAN-L
	Link Out	NC	BMS- RS485-A	BMS- RS485-B	DO+	DO-	NC	BMS- CAN-H	BMS- CAN-L

Cable	Specification
Ground Cable	10 AWG/6 mm ²
Positive Cable	1 AWG/50 mm ²
Negative Cable	1 AWG/50 mm ²
Communication Cable	Standard communication cable

4 Wall Mounting Steps

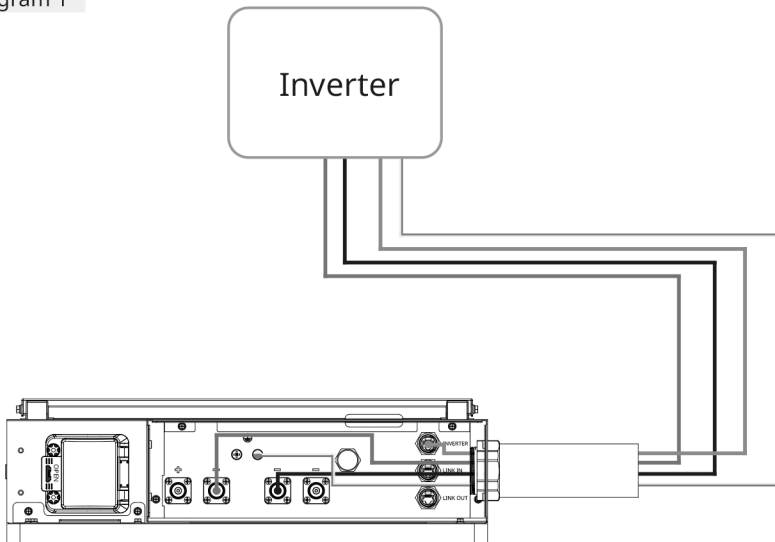




5 System Diagram

Single Unit

Diagram 1



Parallel Connection with Busbar

Diagram 2

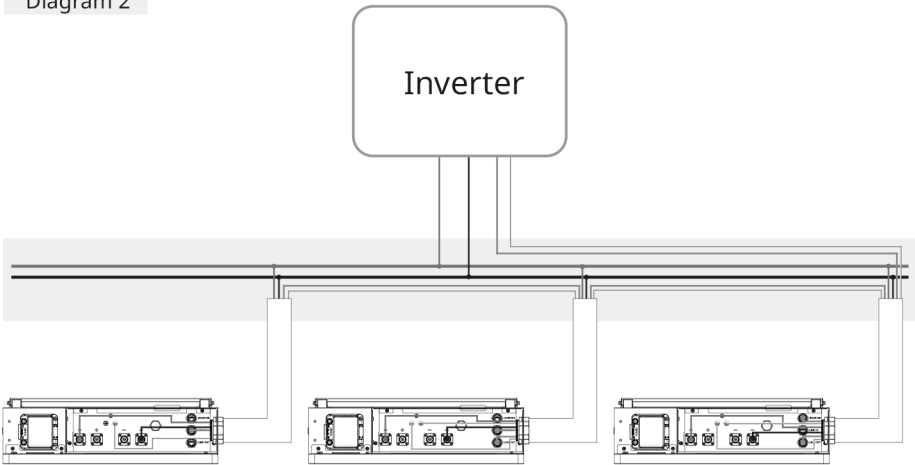
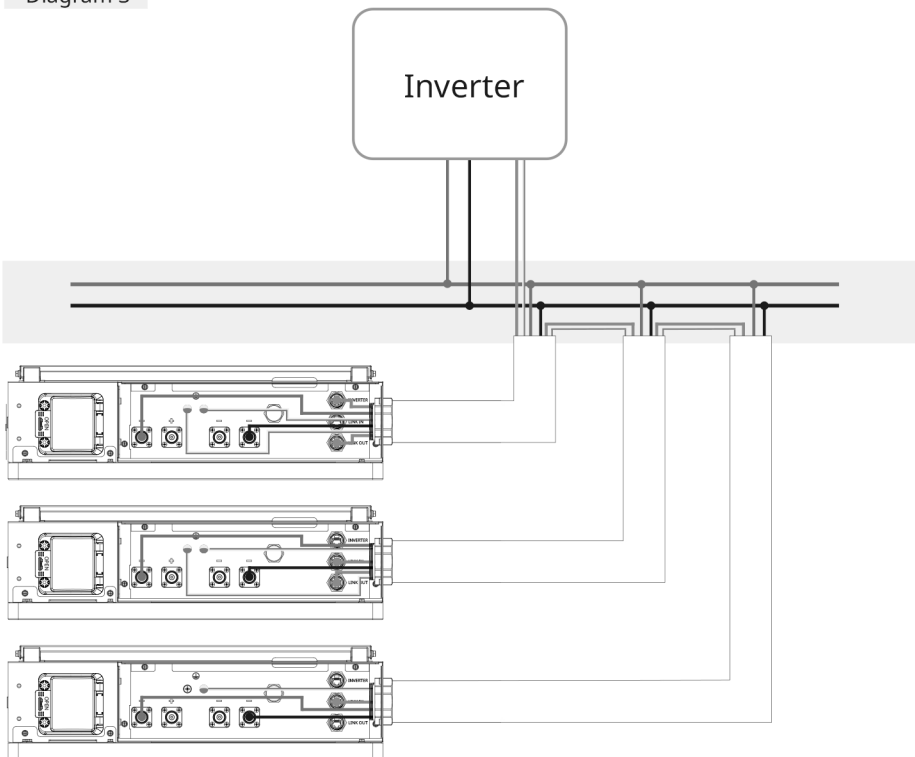


Diagram 3



Parallel Connection without Busbar

Diagram 4

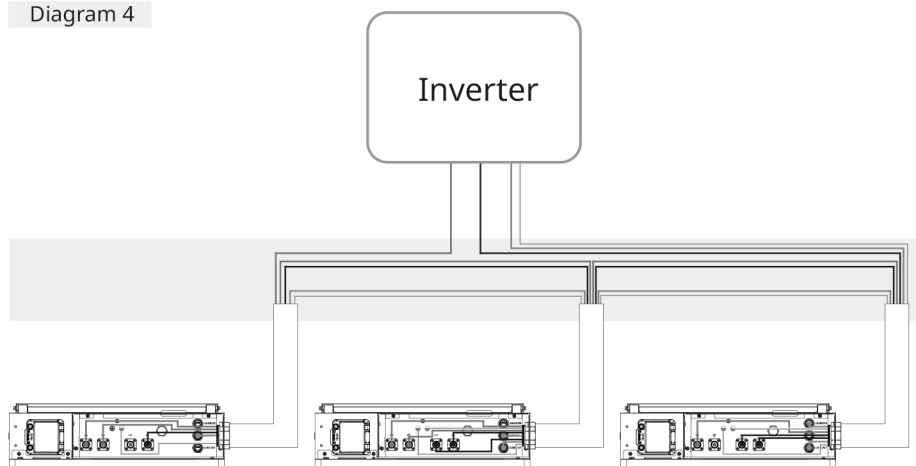
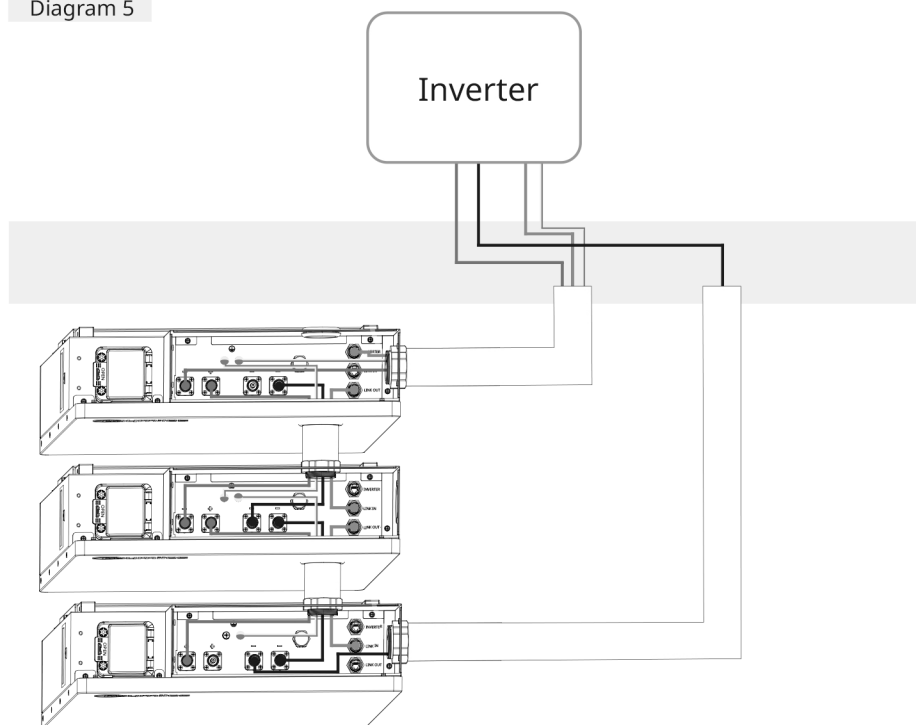


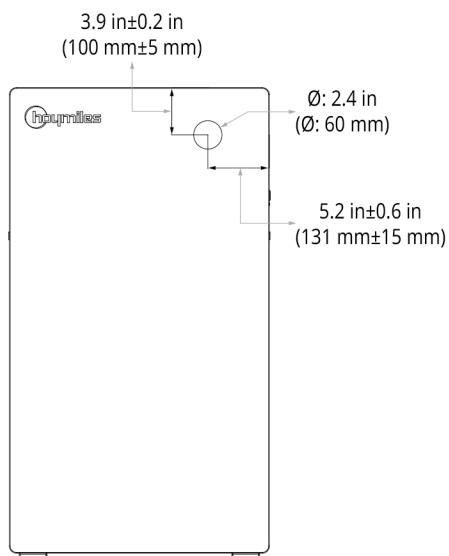
Diagram 5



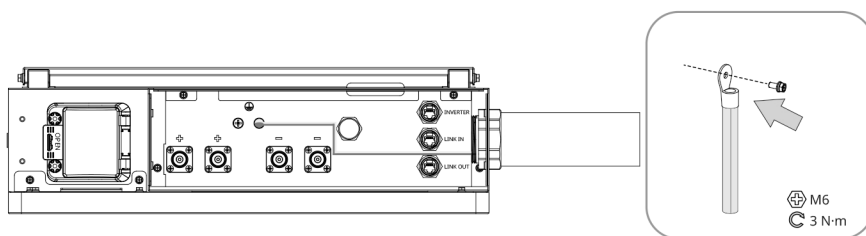
* For parallel connection without busbar, the charge and discharge power must not be more than 12 kW.

6 Electrical Connection

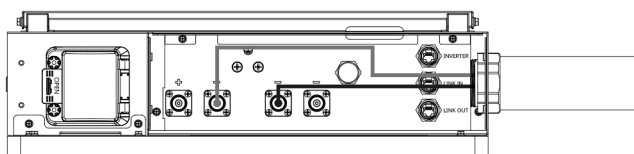
Step 1 Punching (only for diagram 5)



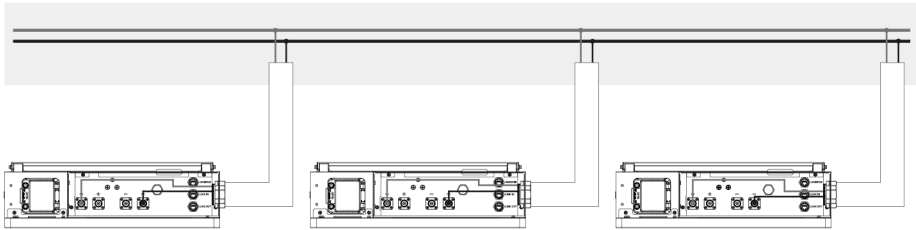
Step 2 Ground Cable Connection



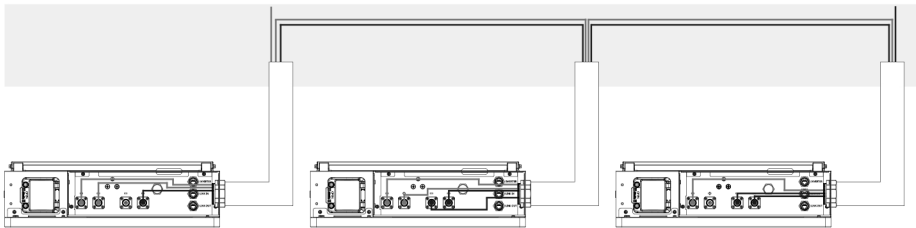
Step 3 Power Cable Connection (Single Unit)



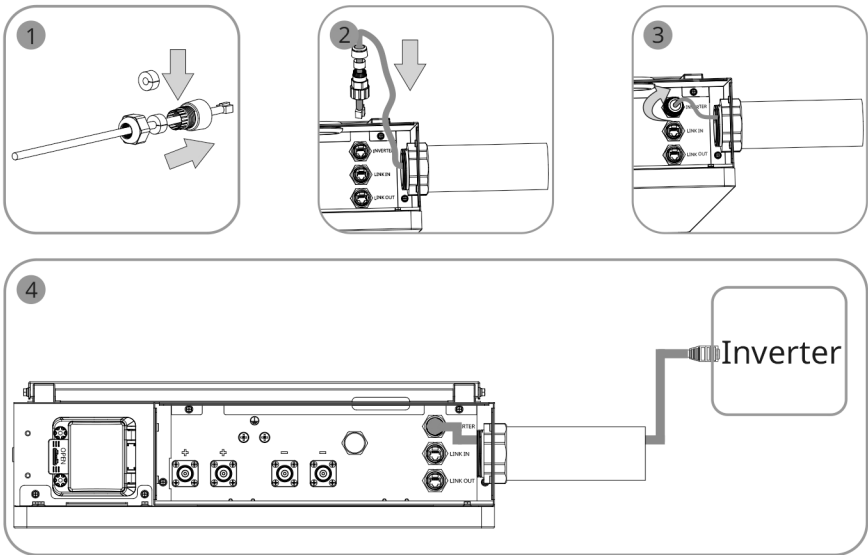
Step 3 Power Cable Connection (Parallel Connection with Busbar)



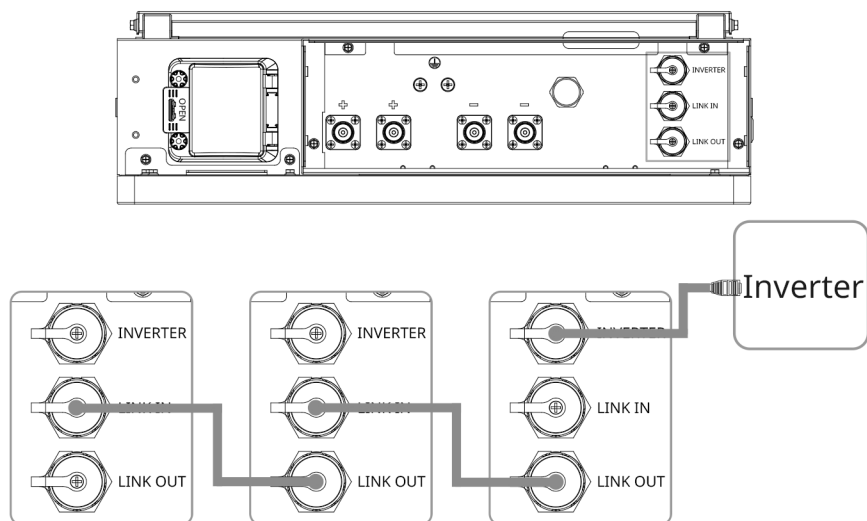
Step 3 Power Cable Connection (Parallel Connection without Busbar)



Step 4 Communication Cable Connection (Single Unit)

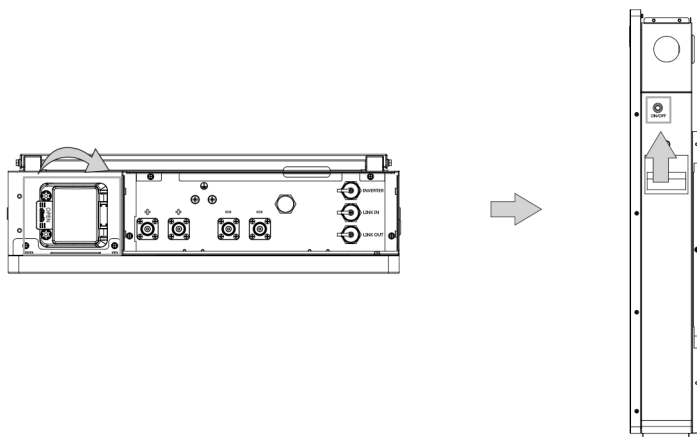


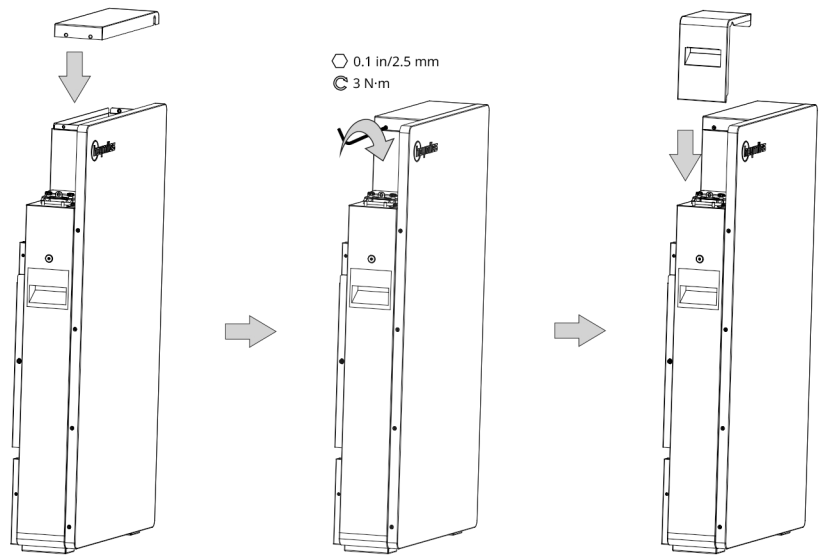
Step 4 Communication Connection (Parallel Connection)



Step 5 Battery Activation

1. Open the cover of the circuit breaker and turn on the circuit breaker.
2. Turn on the power switch. After five seconds, a blue indicator flashes, indicating that the operation is normal.
3. Put back the top right cover, tighten the screws, and put back the top left cover.





Battery Status	Indicator	Indicator Status
Standby		On for 0.25s; Off for 3.75s.
Charge		On for 0.5s; Off for 1.5s.
Discharge		The indicator stays lit.
Protection Status		On for 0.5s; Off for 0.5s.
Inverter Communication Fault		On for 0.5s; Off for 0.5s.
Parallel Communication Fault		On for 0.25s; Off for 3.75s.
Alarm/Fault		The indicator stays lit.
Shutdown		The indicator is off.



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



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