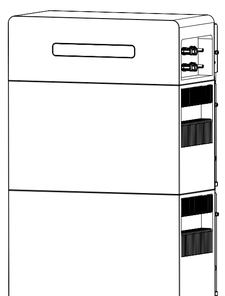
QUICK INSTALLATION GUIDE

HIGH VOLTAGE STACKBLE BATTERY

BAT-QS5-L(1-12)



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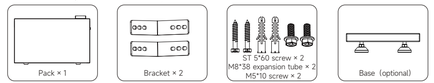
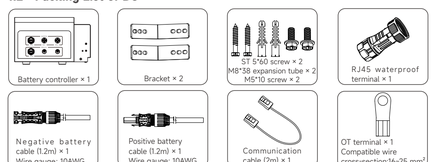
1 Packing List

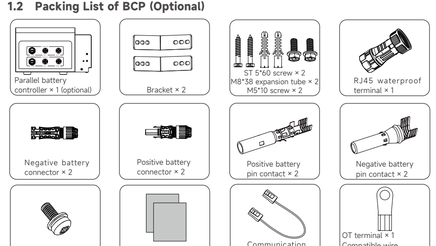
1.1 Packing List of Battery Pack



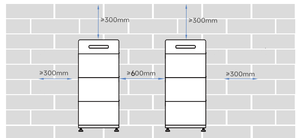
1.2 Packing List of BC



1.2 Packing List of BCP (Optional)



2 Installation Preparation



3 Mechanical Installation

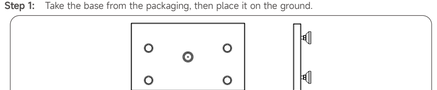
NOTICE

- The battery is heavy. There is a risk of injury if the battery is not lifted or dropped properly during transportation or during installation or removal.
- Two or more people must lift and transport the battery.
- When wiring the battery, it must be well protected, one person should wire and one person should supervise and check to prevent the battery short circuit accident.
- The installer should wear protective equipment.

NOTICE

- The base is an optional accessory.
- If the base is selected, perform Step 1 and Step 2 to place and level the base.
- If you do not select the base, skip Step 1 and Step 2 and proceed directly to Step 3.

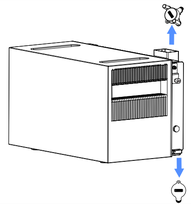
Step 1: Take the base from the packaging, then place it on the ground.



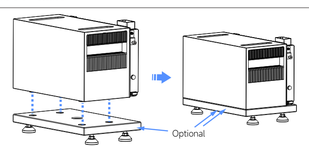
Step 2:

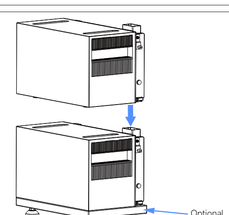


Step 3: Take the battery pack from the packaging, and remove the waterproof covers from the battery pack.

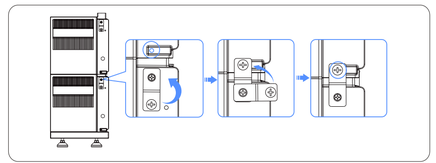


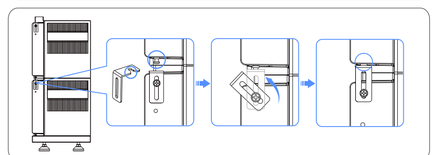
Step 4: Place your hands on the handles of the pack, then place the pack on the base. Align the pads on the pack with the reserved holes on the base. Repeat the above steps until all packs are installed.





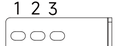
Step 5: The packs are connected by brackets. Connecting the right brackets: Rotate the bracket, and secure the M5 screw to connect the packs (Torque: 2.0-2.5N.m). Connecting the left brackets: Rotate the bracket to fit the bracket's clip onto the screw on the pack. Repeat the above steps until all packs are connected.





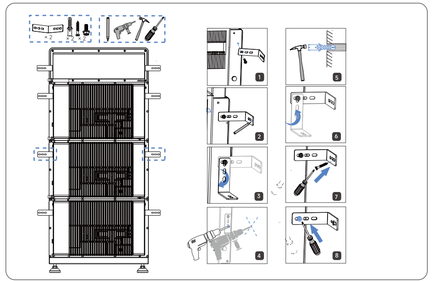
Step 6: Mount the system to the wall: Attach the L-shape wall mounting bracket to both sides of the battery pack.

» 1. Install one side of the L-shape wall mounting bracket on the battery pack, and pre-lock but not tighten the M5*10 screw.
» 2. Mark holes on the wall.
» 3. Rotate the bracket down.
» 4. Use a hammer drill to drill holes in the wall to a depth of 60 mm. (∅8 drill bit)
» 5. Insert the expansion tubes.
» 6. Rotate the bracket back up.
» 7. Tighten the self-tapping screws.
» 8. Tighten the M5*10 screws. (Torque: 2.0-2.5N.m)



OB Hole Mounting Distance Range

Position of the OB hole	Minimum distance from the wall	Maximum distance from the wall
1	46.5 mm	50.5 mm
2	33.0 mm	37.0 mm
3	19.5 mm	23.5 mm



4 Electrical Connection

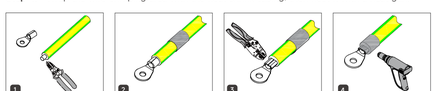
4.1 Grounding Connection

Step 1: Strip the insulation layer of the grounding cable.

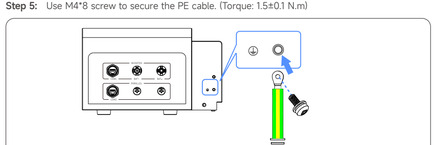
Step 2: Insert the heat shrink tubing and OT terminal into the grounding cable.

Step 3: Use a crimping tool to crimp the OT terminal.

Step 4: Wrap the wire crimping area with the heat shrink tubing, then heat it with a heat gun.



Step 5: Use M4*8 screw to secure the PE cable. (Torque: 1.5±0.1 N.m)



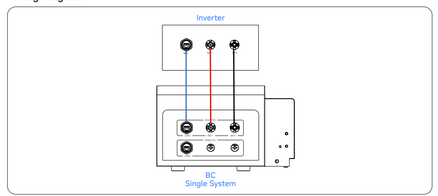
NOTICE

- The grounding connection steps for single system and parallel system are identical; the single system is used as an example here.

4.2 Battery and COM Connection

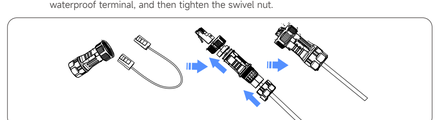
4.2.1 Single System

Wiring Diagram

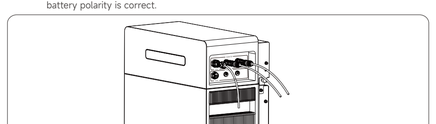


Battery and COM Connection Steps

Step 1: Assembling the COM cable: Take the RJ45 waterproof terminal and the communication cable from the packaging, then thread the communication cable through the RJ45 waterproof terminal, and then tighten the swivel nut.



Step 2: Connecting the Battery and COM cable: Connect one end of the assembled COM cable to the inverter's BMS port, and the other end to the COM1 port of the BC.
Then take the negative and positive battery cable from the packaging, connect them to the BAT+ BAT- port of the inverter and the BAT+ BAT- port of the BC. Make sure the battery polarity is correct.

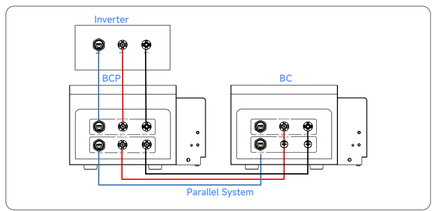


NOTICE

- The other end of the COM cable is not connected. Using the terminal provided with the inverter to connect the other end. During installation, ensure that the length of the input/output cables and communication cable for this device is less than 3 meters.

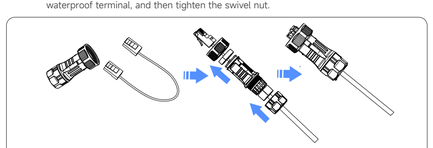
4.2.2 Parallel System

Wiring Diagram



Battery and COM Connection Steps

Step 1: Assembling the COM cable: Take the RJ45 waterproof terminal and the communication cable from the packaging, then thread the communication cable through the RJ45 waterproof terminal, and then tighten the swivel nut.



Step 2: Connecting the COM cable: Connect one end of the assembled COM1 cable to the inverter's BMS port, and the other end to the COM1 port of the BC and connect the COM2 cable between the two BC.

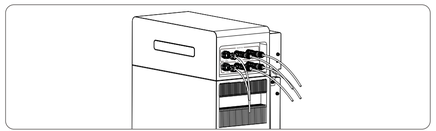
NOTICE

- The other end of the COM cables are not connected. Using the terminals provided with the inverter to connect the other end. During installation, ensure that the length of the input/output cables and communication cable for this device is less than 3 meters.

Step 3: Connecting battery cables:

» For battery connection between BC and Inverter, take the negative and positive battery cable from the packaging, connect the upper BAT+ BAT- port of the BC to the BAT+ BAT- port of the Inverter. Make sure the battery polarity is correct.

» For battery connection between BC and BCP, crimping and assembling battery cables are needed. For detailed information, please refer to "Crimping and Assembling Battery Cables". Make sure the battery polarity is correct.



Crimping and Assembling Battery Cables

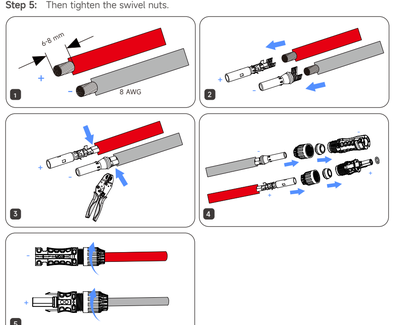
Step 1: Strip the insulation layer of the battery cables.

Step 2: Insert the stripped cables into the battery pin contacts.

Step 3: Crimp the connection parts with a crimping tool.

Step 4: Thread the battery cables through the battery connectors.

Step 5: Then tighten the swivel nuts.

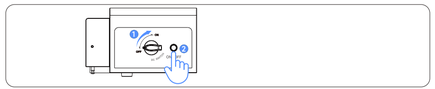


5 System Commissoning

5.1 System Startup

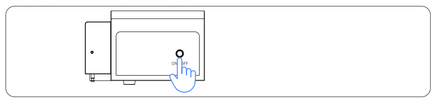
Version 1

Turn on the DC switch, then press and hold the ON/OFF button for 2s.



Version 2

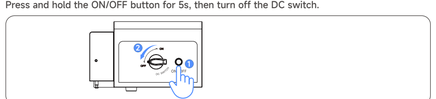
Press and hold the ON/OFF button for 2s.



5.2 System Shutdown

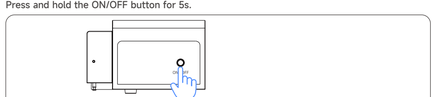
Version 1

Press and hold the ON/OFF button for 5s, then turn off the DC switch.



Version 2

Press and hold the ON/OFF button for 5s.



NOTICE

- Please refer to the relevant-inverter documentation and complete commissioning based on your actual inverter configuration.

support@hyxipower.com

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