

xStorage Hybrid Inverter Three-phase LFP Battery Solutions

Quick Start Guide

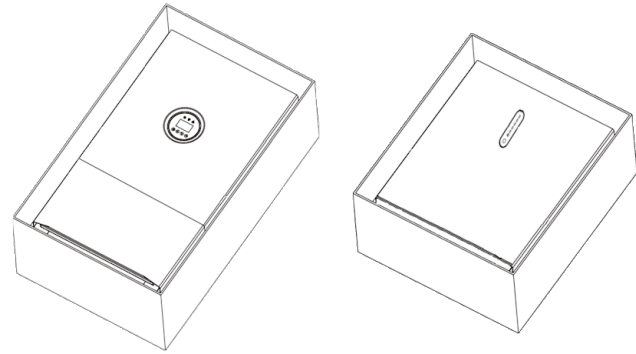
Never turn on equipment when there is evidence of fire or structural damage.

xStorage Hybrid must be installed only by professional and qualified personnel.

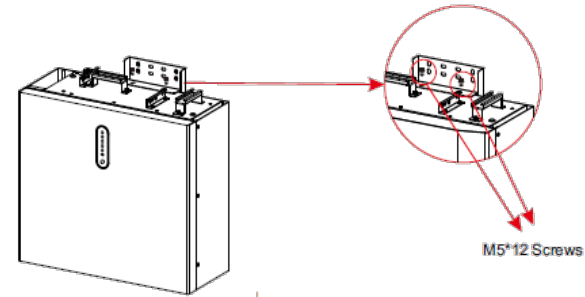
During installation, unplug xStorage Hybrid. Read and understand the safety instructions and warnings prior to installation.

1. Battery Installation

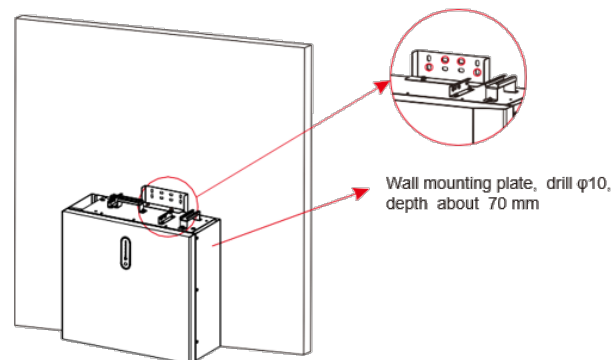
Step 1 Remove the battery and inverter from the packaging box.



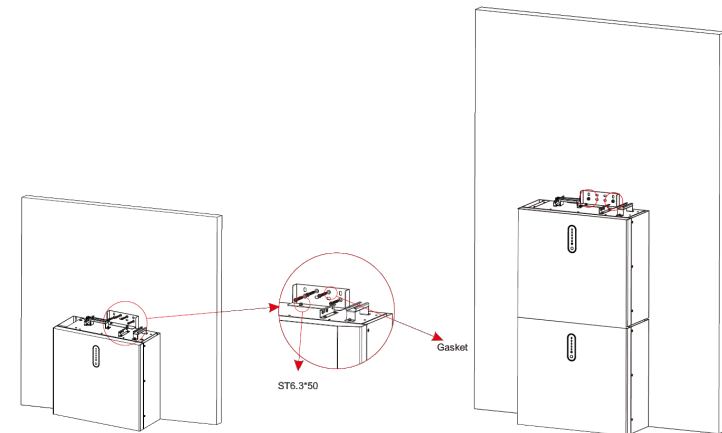
Step 2 Assemble the battery mounting panel on the battery.



Step 3 Position the battery parallel to the wall and use a $\Phi 8\text{mm}$ drill to drill holes at a depth of about 70mm in the wall for subsequent fixation of the mounting plates.

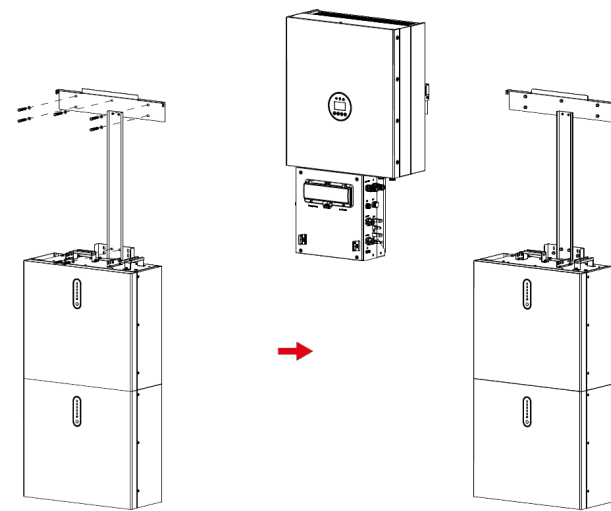


Step 4 Please use the appropriate wall plugs and screws for the wall on which you plan to attach the battery mounting bracket

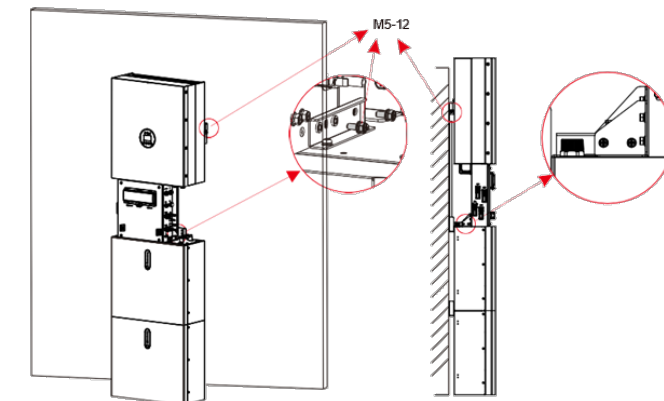


Step 5 To assemble the second (and all other) battery, repeat steps 2 and 3 respectively.

2. Inverter Installation



Step 1 Hang the inverter onto the mounting panels, adjust the entire system and ensure that the battery and the inverter have been securely hung onto the panels and brackets.



EATON xStorage Energy Storage System Quick Installation Guide MN700015EN April 2024

Prior to installation it is required to download (www.eaton.com/xstoragehybrid), read, and understand the step-by-step instructions from the latest installation and user manuals.

3. AC cable assembly and connection

Recommended cables: a 12 AWG or 4-mm² cable for BACK UP connection and a 10 AWG or 6-mm² cable for ON GRID connection. Make sure that the resistance of the wires is lower than 1 Ω . If the wire is longer than 20m, we recommend using a 10mm² cable.

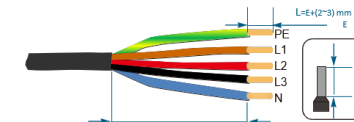


There are "1,2,3,N," symbols marked inside the connector, the Line wire of grid must be connected to "1, 2, 3" terminal; the Neutral wire of grid must be connected to "N" terminal; the Earth of grid must be connected to "⊥"

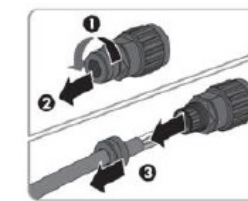
Object	Description	Value
A	External diameter	10mm
B	Copper conductor cross-section	6mm ²



Pin	Description
1	R
2	S
3	T
N	N
PE	PE



Step 1 Insert the conductor into the suitable for rule acc. to DIN 46228-4 and crimp the contact.



Step 2 Unscrew the swivel nut from the threaded sleeve and thread the swivel nut and threaded sleeve over the AC cable.

Step 3 Insert the crimped conductors L, N and PE into the corresponding terminals and tighten the screw with a hex key wrench screwdriver (size:2.5, 1.2-2.0Nm). Ensure that all conductors are securely in place in the screw terminals on the bush insert.



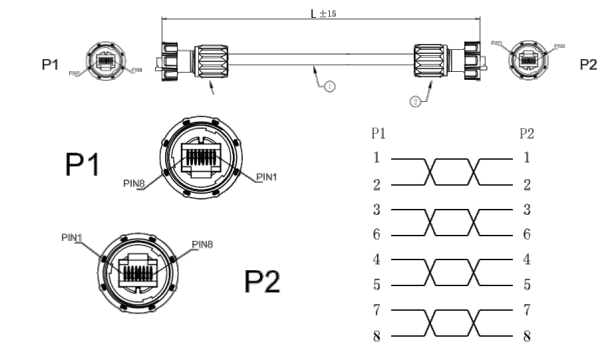
Step 4 Screw the swivel nut onto the threaded sleeve. This seals the AC connector and provides strain relief for the AC cable. When doing so, hold the bush insert firmly by the locking cap. This ensures that the swivel nut can be screwed firmly onto the threaded sleeve.

Step 5 Assembly the plug shell ,adapter as below picture, Push the adapter and Shell by hand until a "Click" is heard or felt.

Step 6 Plug the AC connector into the jack for the AC connection by hand until a "Click" is heard or felt.



4. Battery cable assembly and connection

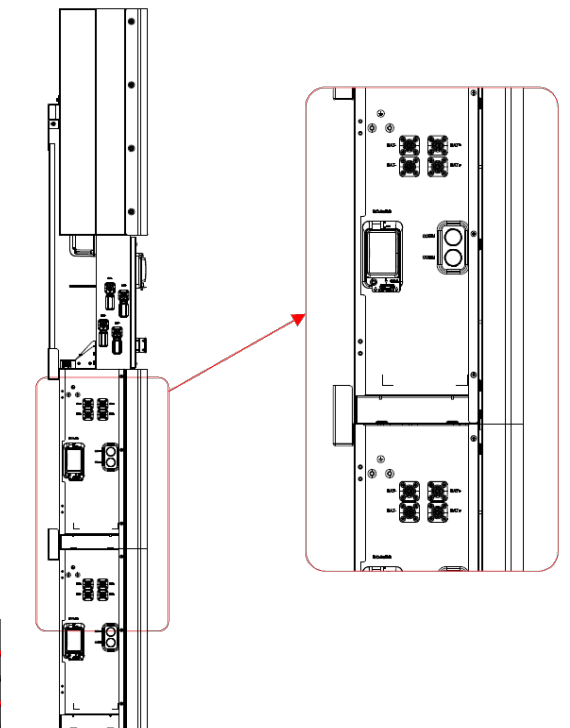


The communication cable is in type B, see Figure . Leave the power cables and communication cables hanging on outside. Leave the device aside.

Step 1 Connect the BAT communication cable of the cable box to the topmost battery at the right side.

Step 2 Use the communication cable supplied with the batteries to connect the batteries to each other via the respective connectors on the left side.

Step 3 After you have connected all the modules together, close all covers (if you want to connect further battery modules, you must mount them before closing).



The type B RCD must be installed on the backup port of the system. In addition, the installation of inverter must fulfill AS/NZS 3000, AS/NZS 4777.1 and AS/NZS 5033.

Do not throw away, keep the document in a safe place.

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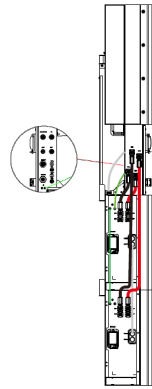
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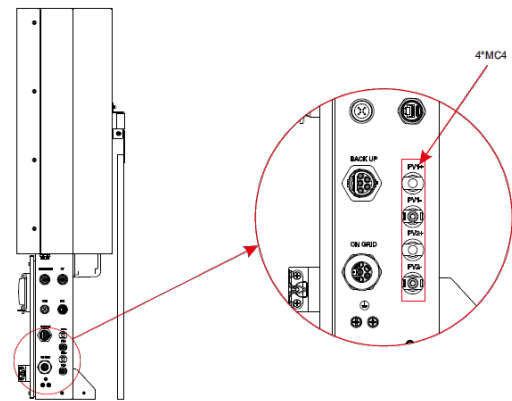
Step 4 Connect the power cables of the bottom battery to the side terminals of the top battery. Make sure that red connects to red and black connects to black.



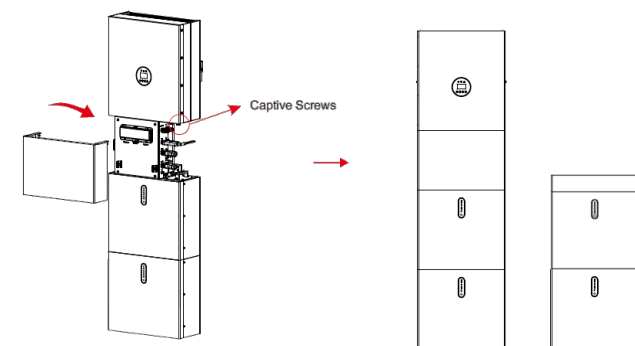
Step 5 Close the battery covers and connect the PV-MC4 connectors to the system (connection on both sides).

Step 6 Connect all AC cables, the meter communications cable METER, and the Ethernet cable LAN.

Step 7 Close the cable box cover.



Step 8 Close the lid and tighten the screw. The installation is now complete.



If you connect more than 2 battery modules to the system, please install only additional batteries 4, 6 and 8 on the side of the system.

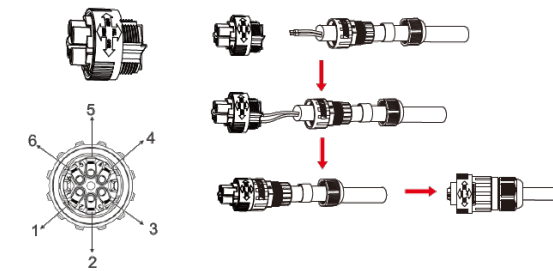
You can connect up to 8 batteries, 2 columns of 3 each mounted on top of each other and on each side of the inverter. To do this, complete the individual installation steps as for the first two batteries.

5. External CT connection

Mount and connect the electricity meter at the grid transition point (feed-in point) so that it can measure the grid reference and feed-in power.

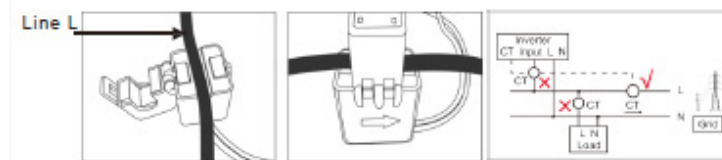
Step 1 Loosen the nut and untangle the single-aperture sealing ring.

Pin	Description	Pin	Description
1	R phase CT positive electrode(White)	2	R phase CT negative pole(Black)
3	S phase CT positive electrode(White)	4	S phase CT negative pole(Black)
5	T phase CT positive electrode(White)	6	T phase CT negative pole(Black)

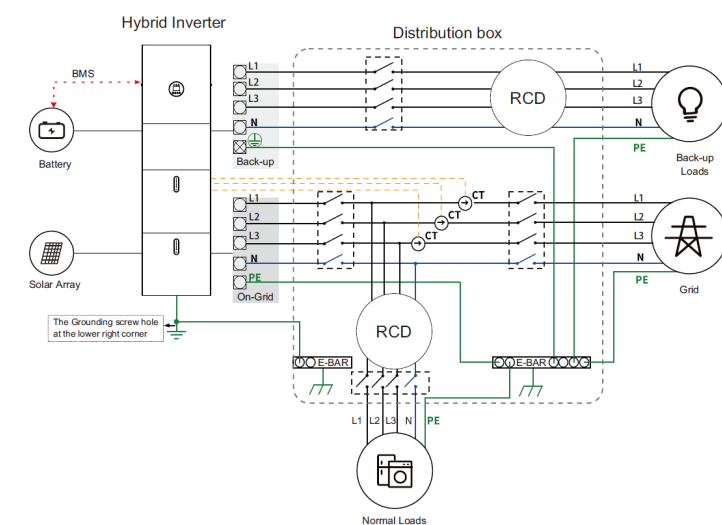


Step 2 Install the waterproof component and screw on the waterproof sheath nut

Step 3 Open the external CT wiring port, the arrow points to the direction of the power grid, put the wire into the external CT card slot, and buckle the buckle.



External CT should be placed near the power grid. If CT test passes but inverter still can't achieve export power (power is not controllable or always 0 power output), check installation location of the CT.

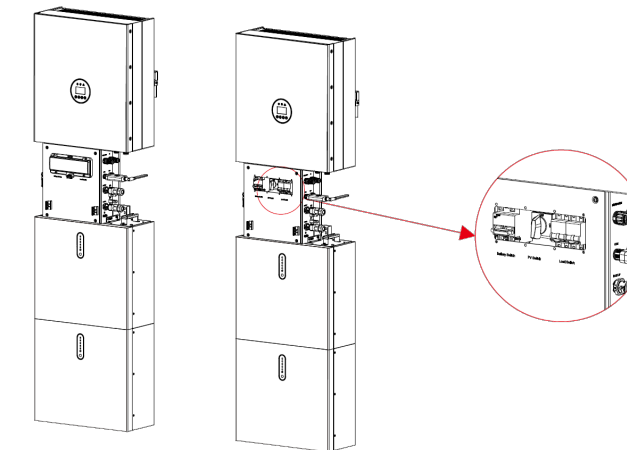


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6. Switch On

When turning on the system, it's very important to follow steps to prevent damage to the system.

Please check the installation again before turning on the system



Step 1 Open the outer shell of the cable box.

Step 2 Turn on the external grid switch.

Step 3 Turn on the PV switch.

Step 4 Press power button on all the batteries until the indicator lights turn on.

Step 5 Open the battery switch cover and turn on the battery switch.

Step 6 Turn on the battery switch on the cable box.

Step 7 If backup load is applied, turn on the Backup switch.

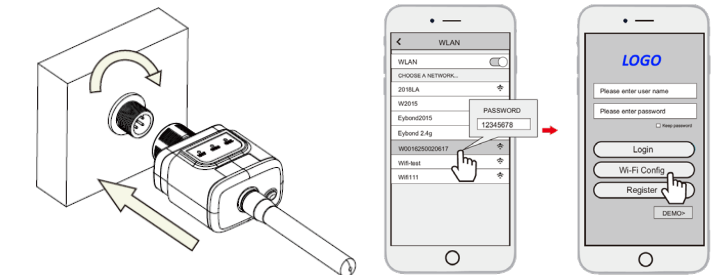
Step 8 Close the battery switch cover and the outer shell of the cable box.

The Backup switch is only used when a backup load is applied.

7. Connect Wi-Fi Datalogger

Step 1 Select the same number of Wi-Fi PlugII PN to connect on your phone WLAN. The Password can be found on the label of the collector

Step 2 Open the APP, tap the Wi-Fi Config button to enter this page.



Please do not hold the logger body to rotate while install or remove the logger.