

Never turn on any equipment when there is an evidence of fire, water or structural damage.

xStorage Home must be installed only by a qualified personnel i.e. an Eaton certified installer.

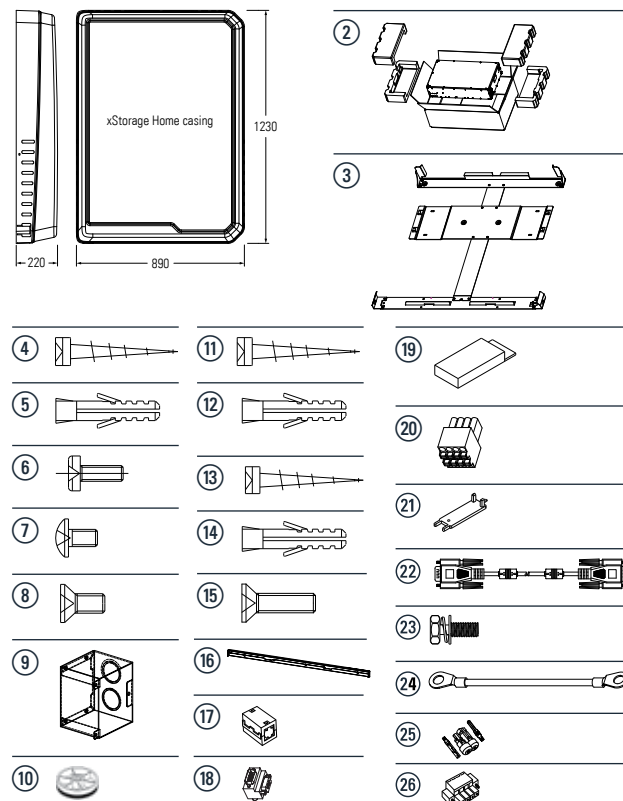
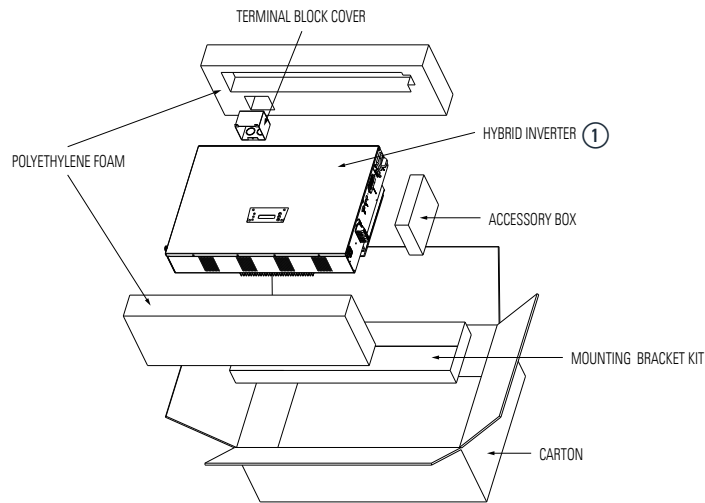
During installation unplug xStorage Home. Read and understand the safety warnings prior to installation.

1. Preparation phase

Instructions

- Both the packed hybrid inverter and the battery pack are considerably heavy: wear safety shoes and preferentially use a vacuum lifter for handling operations.
- All handling operations will require at least two people (unpacking, lifting, installation i.e. mounting on the indoor wall).
- Select a suitable indoor mounting location such as the house or the garage, no drywall and no outdoor mounting allowed. The operational temperature range is [0°C, 30°C], 5% to 95% relative humidity (non condensing).
- Due to the various types of walls, fixing the xStorage Home system might differ from case to case: Contact your Eaton technical support representative for recommendations.
- In case of missing accessories, contact your Eaton technical support representative.
- xStorage Home parts MUST NOT be energized during mounting and installation.
- Allocate a minimum wall area of 1530 mm x 1190 mm that is clear of all electrical wiring, pipework or other obstructions either on or buried within the wall.
- Use appropriate tools and screws for the installation.

Packaging: xStorage Home & accessories

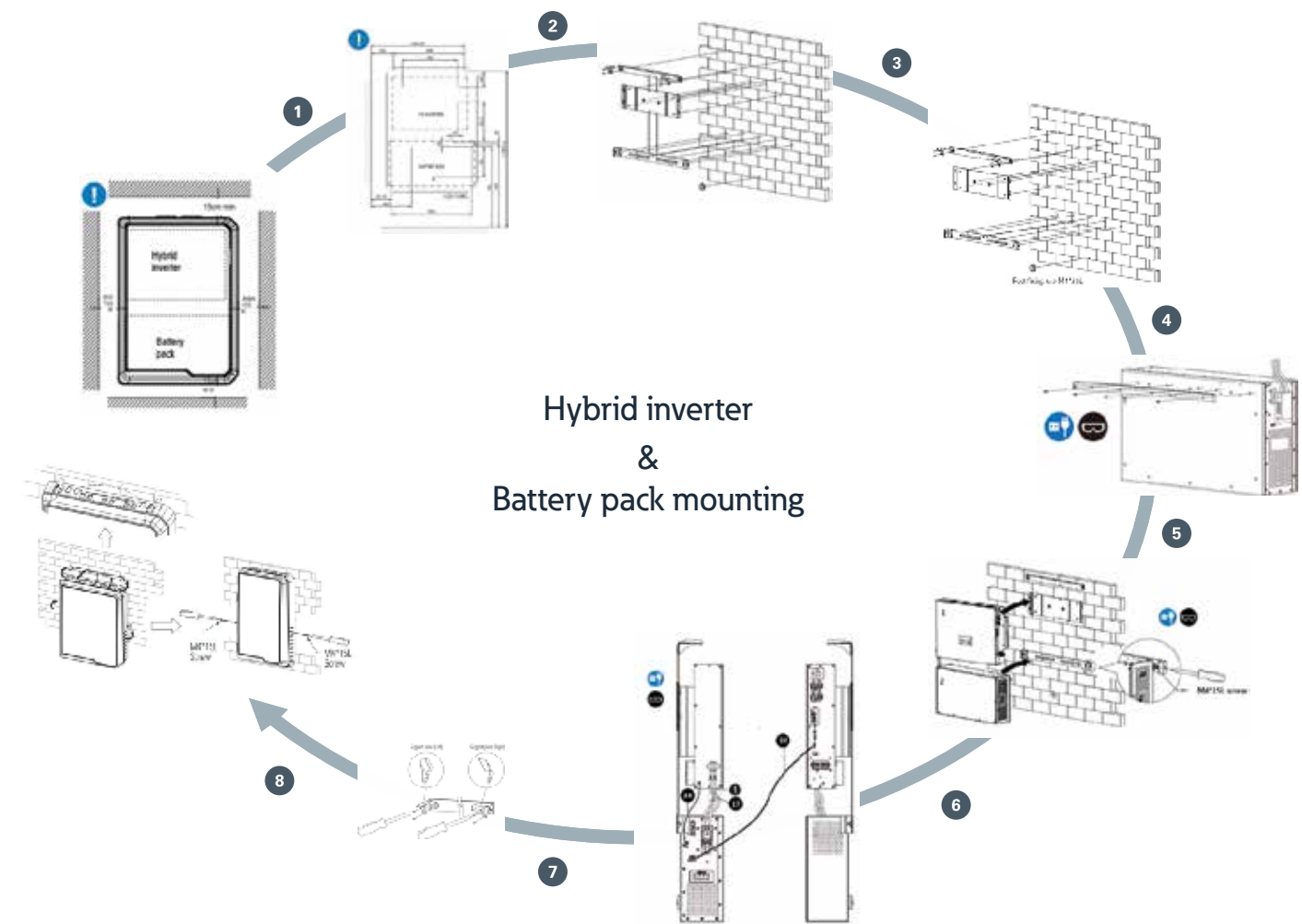


No.	Accessory
1	1x Hybrid inverter, dim: 796 mm x 515 mm x 182 mm (W x H x D)
2	1x Battery Pack
3	1x Mounting bracket
4	8x M5*40 mm round thick head wall mounting screws for BT type
5	8x plastic wall insert plug (M5) type
6	3x M4*15 mm truss cross
7	3x M3*8 mm round washer head screw, machine type
8	16x M4*6 mm flat cross
9	1x Terminal block cover for AC load output and input
10	1x Foot
11	7x M5*40 Round thick head
12	7x Plastic wall insert plug (M5)
13	1x M4*30 Round thick wall mount head
14	1x Plastic wall insert plug (M4)
15	5x M5*10 Flat torx screws
16	1x BP support bracket
17	1x EMC Core
18	1x 270 CAN adaptor
19	1x WiFi dongle
20	1x RS-485 connector
21	1x PV MC4 tool
22	1x RS232 Communication cable
23	1x M6*12 Hex Cross (BP grounding)
24	1x Grounding wire
25	2x PV MC4 connector
26	1x EPO connector

2. Mounting

Instructions

- To meet warranty and safety requirements, keep the distance between the xStorage Home system casing and the surrounding sides at a minimum of 15 cm.
- The wall must support the following weights: 40 kg inverter, 68 kg battery pack, casing and mounting bracket appr. 12 kg. The total weight is 120 kg. Select the appropriate screws depending on the type of wall.
- By using the mounting bracket drill the holes into the wall. Then disassemble the wall mounting bracket.
- Mount the inverter and the battery pack onto the wall bracket. The installer may install screws to secure the battery pack onto the wall mounting bracket.
- Mount the casing onto the wall bracket. The installer may install screws to secure the outside cover onto the wall mounting bracket.
- Once installed, the xStorage Home battery pack and the hybrid inverter must not be opened under any circumstances. In case of need, contact your Eaton technical support representative.
- Note:** the torque to tighten the mounting screws should not be higher than the 0.4 Nm.

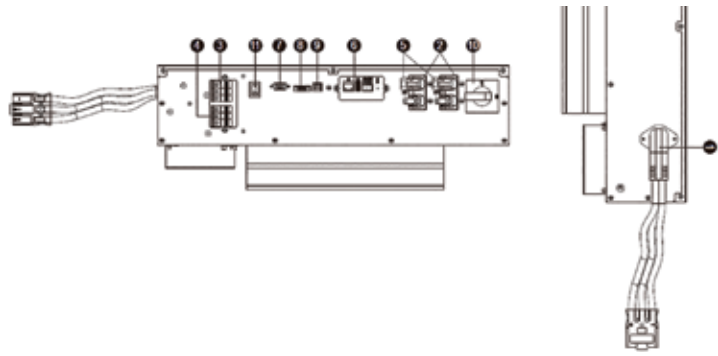


3. Wiring

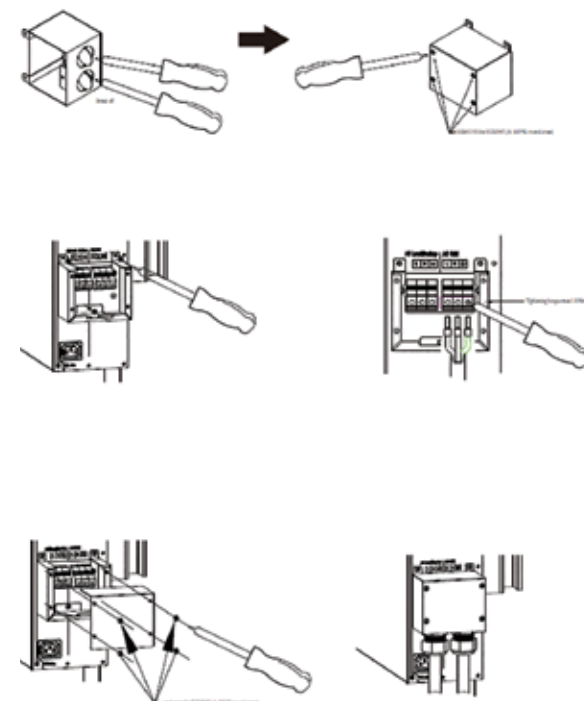
Before the wiring, ensure that the soft start switch of the inverter is in the position “I”.

After the selection of the grid code and the connection to the AC grid, move the soft start switch to the position “O”. Please refer to the installation manual for the selection of the grid code and the connection to the AC grid.

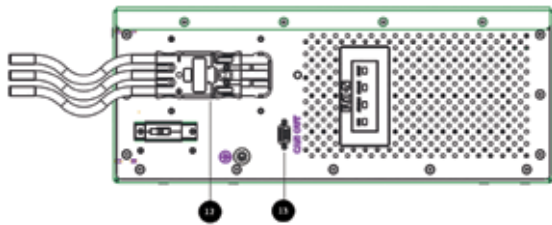
Hybrid inverter connections



AC load output/input



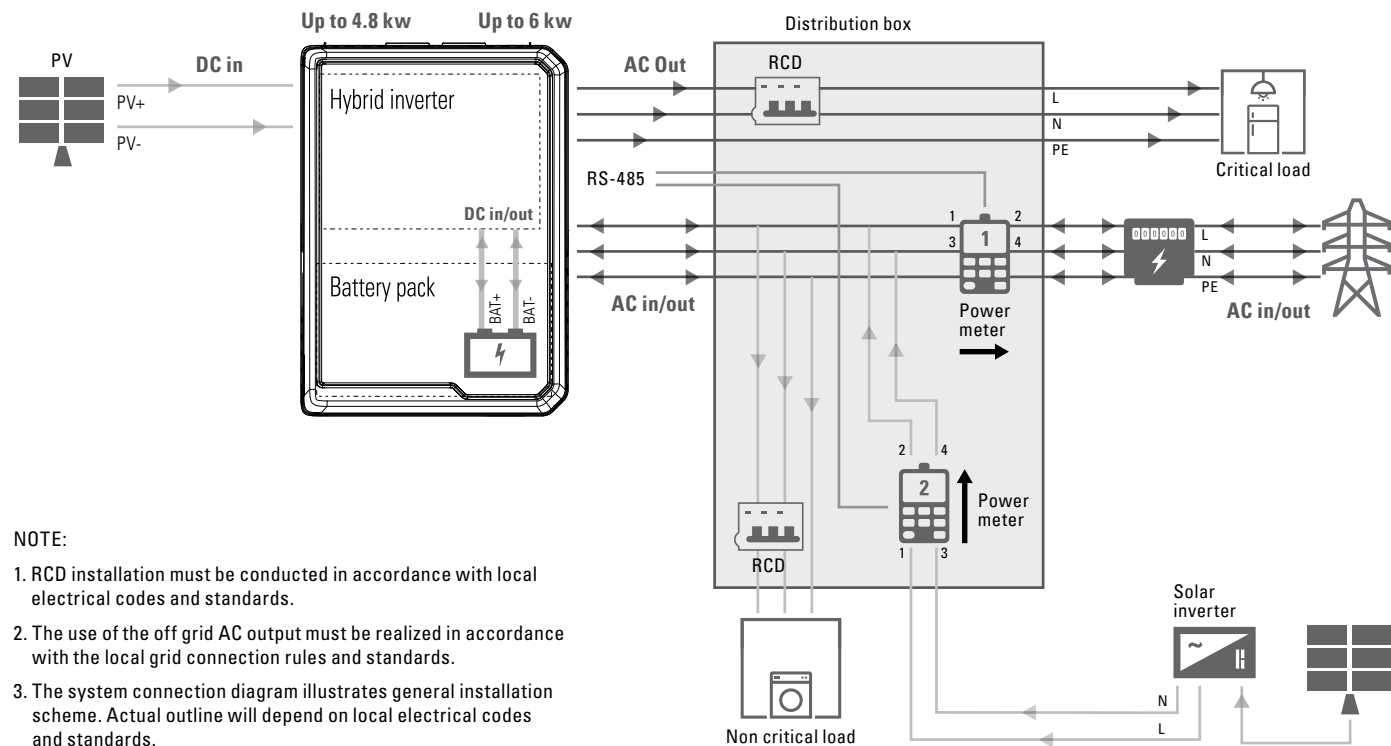
Battery pack connections



System connection diagram

Cable Selection

- Connect both AC grid / AC distribution box with 10 AWG / 4 mm² cable size (preferred)



NOTE:

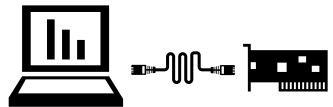
- RCD installation must be conducted in accordance with local electrical codes and standards.
- The use of the off grid AC output must be realized in accordance with the local grid connection rules and standards.
- The system connection diagram illustrates general installation scheme. Actual outline will depend on local electrical codes and standards.

Connection reference	Description
1	DC-input (BAT): Terminals for battery pack connection
2	DC-input (PV): Cable cross section must be calculated according to I _{sc}
3	AC load output: The terminal supports the AC power wires connection. L (Phase), N (Neutral), GND (PE): Ø 4/6 mm ²
4	AC grid-input: The terminal supports the AC power wires connection. L (Phase), N (Neutral), GND (PE): Ø 6/10 mm ²
5	DC-input (PV)
6	Communication slot: Ethernet card already assembled; LAN, USB and RS-485 port
7	CAN-BUS BAT COMM: Accessory includes the RS232 cable to communicate with BMS board
8	Optional EPO port
9	USB port
10	DC switch disconnecter
11	Soft start switch for the installation
12	DC-Input (BAT): Terminals for hybrid convertor connection
13	CAN-BUS BAT COMM: Accessory includes the RS232 cable

4. Network configuration

Setting the Ethernet card for the first time

- Use a network cable to connect the hybrid inverter Ethernet card with your PC.
- The default Ethernet card IP address of the hybrid inverter is 192.168.2.254. Set the PC's IP address to be in the same domain as the hybrid inverter's Ethernet card, by assigning it the following information in the TCP/IP setting:
IP Address: 192.168.2.X (X=any number between 2~253)
Subnet mask: 255.255.255.0
Default gateway: 192.168.2.1
- To enter the settings page for the hybrid inverter's Ethernet card, open the web browser on the PC and enter the default IP address of the Ethernet card as follows: **https://192.168.2.254**.
- If you are an installer click on "I am a technician" and enter the following login information:
Username: admin
Password: jlwgK41G
 Please note that login details for the end user are:
Username: user
Password: user
- After the first configuration, the Ethernet Card functions as a monitoring and communication interface.



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