

Quick Installation

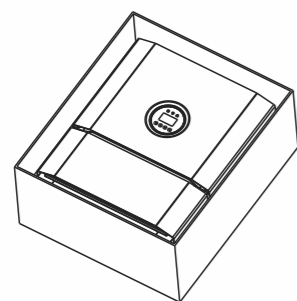


INSTALLATION, OPERATION & MAINTENANCE MANUAL

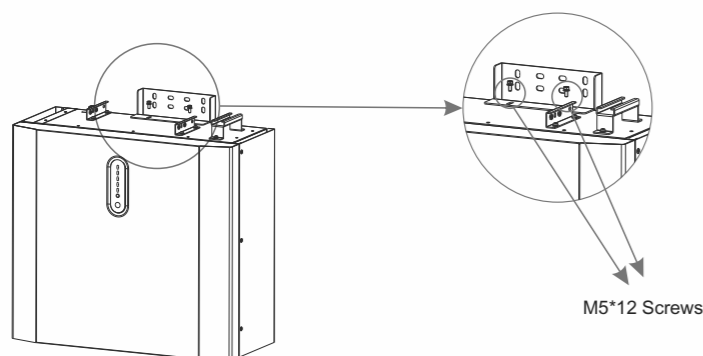
BluE-Energy Storage System - Quick Installation Guide

1. Battery Installation

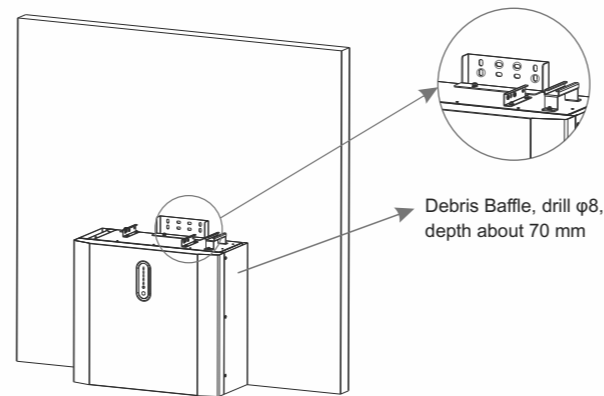
Step 1 Remove the battery and inverter from the packaging box.



Step 2 Assemble the battery mounting panel on the battery.



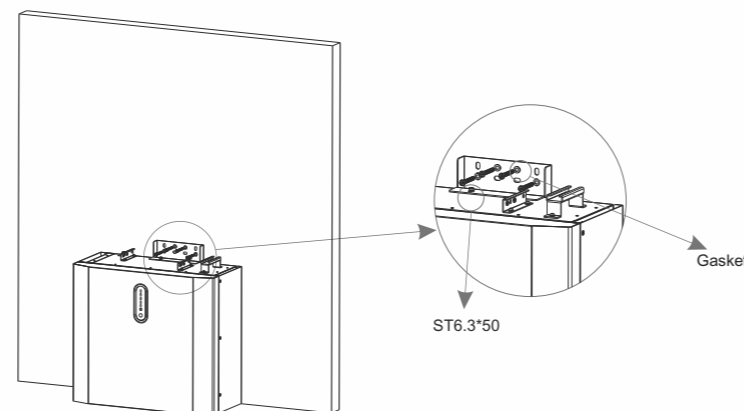
Step 3 Position the battery parallel to the wall and use a $\phi 8$ mm drill to drill holes at a depth of about 70mm in the wall for subsequent fixation of the mounting plates.



NOTE:

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.

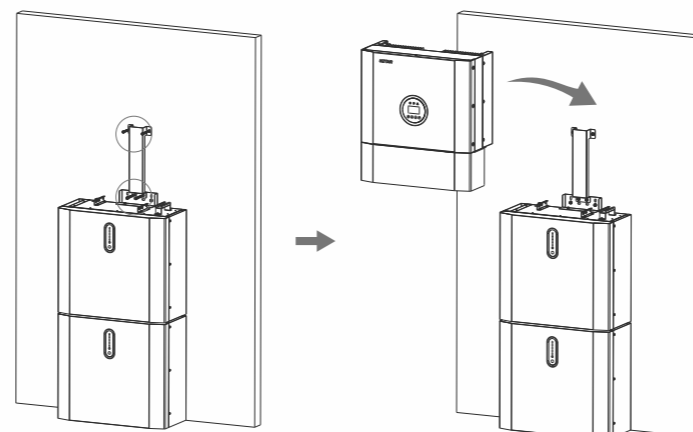
Step 4 Remove the debris baffle and secure the battery to the wall with screws and gaskets.



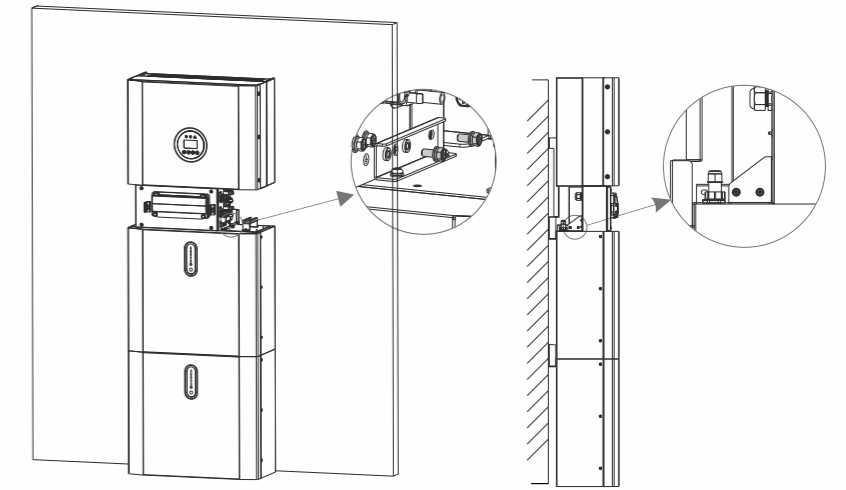
Step 5 To assemble the second (and all other) battery, repeat steps 6 and 7, respectively.

2. Inverter Installation

Step 6 Inverter Installation.



Step 7 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.



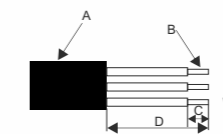
3. AC Cable Assembly and Connection

For all AC connections, 4-10mm² 105 XJ cable is required to be used. Please make sure the resistance of cable is lower than 1 ohm. If the wire is longer than 20m, it's recommended to use 10mm² cable.



WARNING:

There are "L" "N" "⚡" symbols marked inside the connector, the Line wire of grid must be connected to "L" terminal; the Neutral wire of grid must be connected to "N" terminal; the Earth of grid must be connected to "⚡"



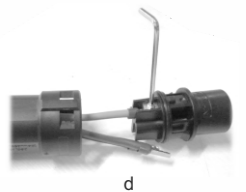
Object	Description	Value
A	External diameter	12mm to 18mm
B	Copper conductor cross-section	4mm ² to 10mm ²
C	Stripping length of the insulated conductors	approx.13mm
D	Stripping length of the outer sheath of the AC cable	approx.53mm

The PE conductor must be 10mm longer than the L and N conductors

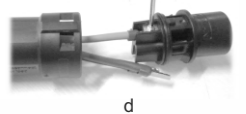
b. Insert the conductor into the suitable ferrule acc. to DIN 46228-4 and crimp the contact.



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

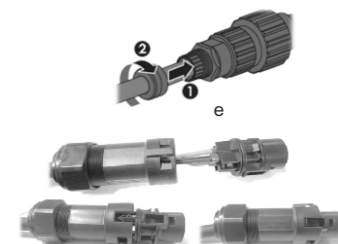


d. Insert the crimped conductors L, N and PE into the corresponding terminals and tighten the screw with a hex key wrench screwdriver (size: 2.5, 1.2-2.0Nm). Ensure that all conductors are securely in place in the screw terminals on the bush insert.



e. 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.

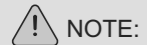
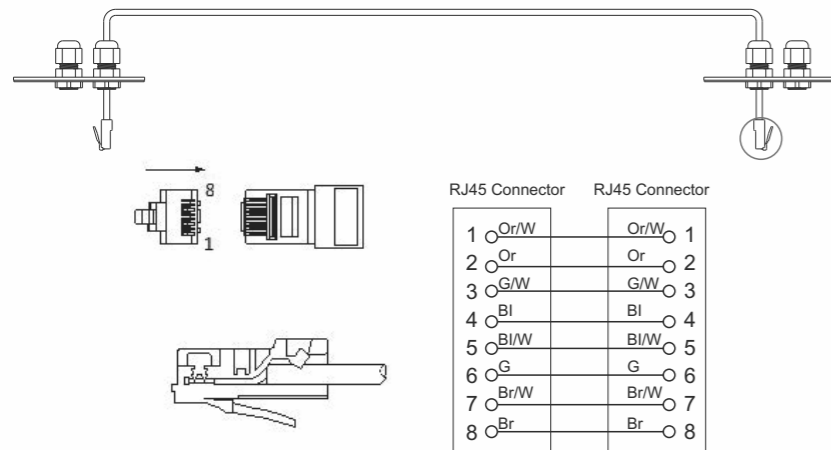
f. Assemble the plug shell, adapter as below picture. Push the adapter and Shell by hand until a "Click" is heard or felt.



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



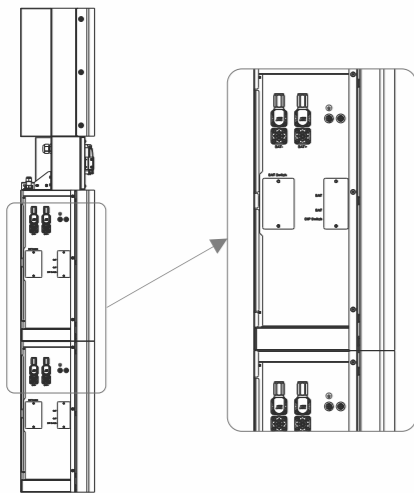
4. Battery Cable Assembly and Connection



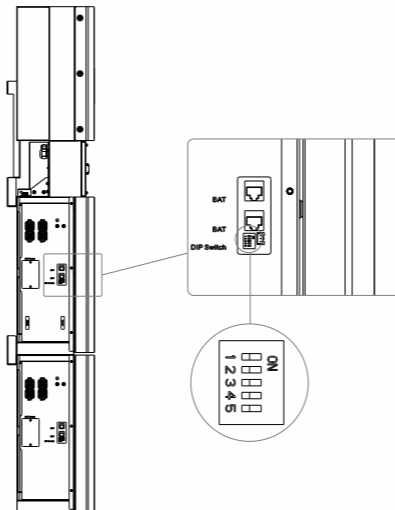
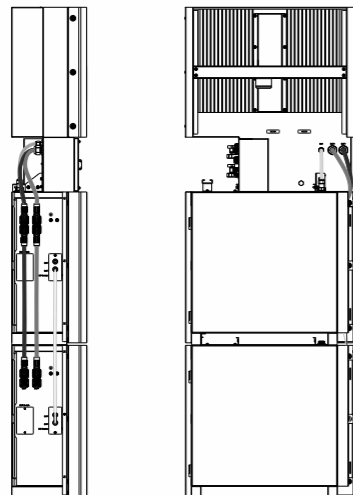
NOTE:

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

Step 8 Connect the BAT communication cable of the cable box from Step 13 to the topmost battery at the right side. Then use the communication cable supplied with the batteries to connect the batteries to each other via the respective connectors on the left side. 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).



Step 9 Connect the power cables of the bottom battery from Step 4 to the side terminals of the top battery. Make sure that red connects to red and black connects to black.



Step10 Open the front cover of the last battery and remove the DIP cover. Now set the DIP switch 2 to "on" mode and close the cover again.

5. DIP switch setting

When PACKs are used in parallel, the address can be distinguished by setting the address on the BMS DIP switch. It is necessary to avoid setting the address to the same. For the definition of the BMS DIP switch, refer to the following table.

Note: The address of the battery pack connected to the inverter is 1, and the others are dialed in the order of 2-4.

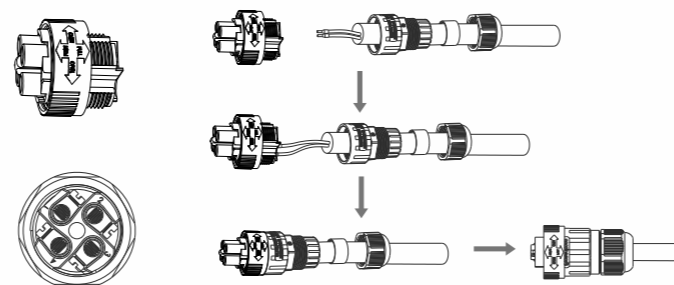
address	DIP switch position				
	#1	#2	#3	#4	
1	ON	OFF	OFF	OFF	
2	OFF	ON	OFF	OFF	
3	ON	ON	OFF	OFF	
4	OFF	OFF	ON	OFF	

6. External CT connection

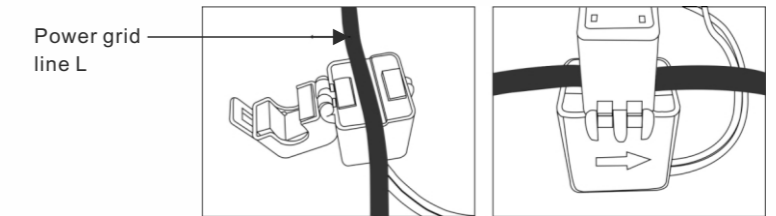
The electricity meter should be mounted and connected at the grid transition point (feed-in point) so that it can measure the grid reference and feed-in power.

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

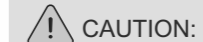
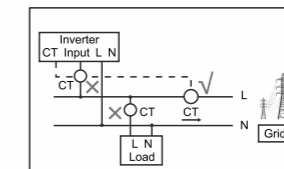
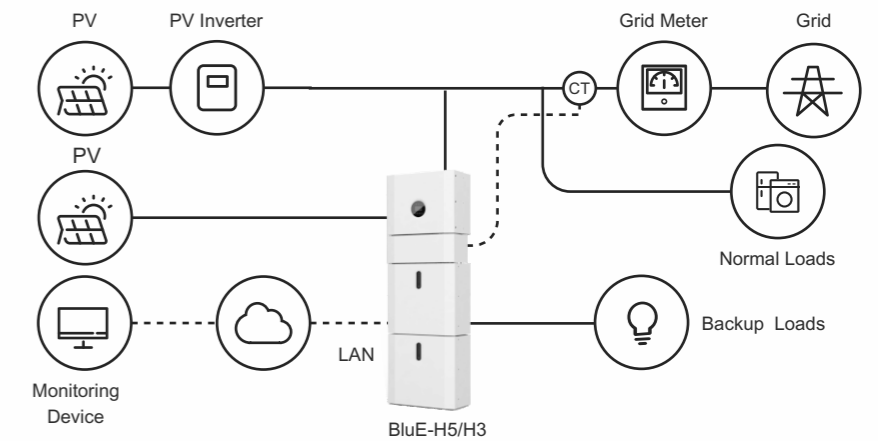
Pin	Description	Pin	Description
1	CT positive electrode	3	NC
2	CT negative pole	4	NC



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



NOTE: External CT should be placed near the power grid.



CAUTION:

If CT test pass but inverter still can't achieve export power (power is not controllable or always 0 power output). Please check installation location of the CT.

7. Download APP

Step 1: Scan the QR Code on the right side and download the APP.



SOLARMAN Smart
for end user



SOLARMAN Business
for business

iPhone: Search "SOLARMAN Smart" in Apple Store.
Android: Search "SOLARMAN Smart" in Google Play.

7.1 Connect Wi-Fi Datalogger

Registration

Go to SOLARMAN Smart and register. Click "Register" and create your account here.

Create a Plant

Click "Add Now" to create your plant. Please fill in plant basic info and other info here.

