

# KSTAR

## Quick Installation

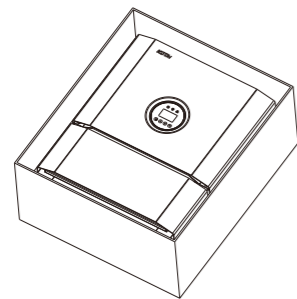


### INSTALLATION, OPERATION & MAINTENANCE MANUAL

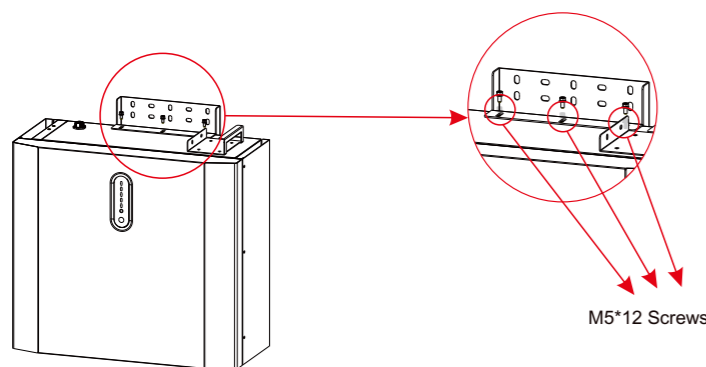
#### BluE-Energy Storage System - Quick Installation Guide

##### 1. Battery Installation

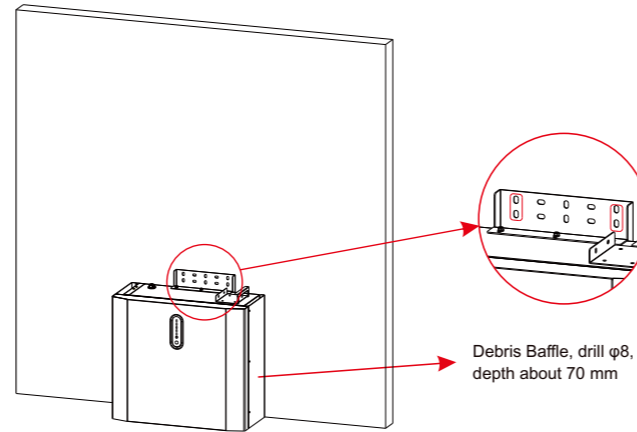
**Step 1** Remove the battery and inverter from the packaging box.



**Step 2** Assemble the battery mounting panel on the battery.



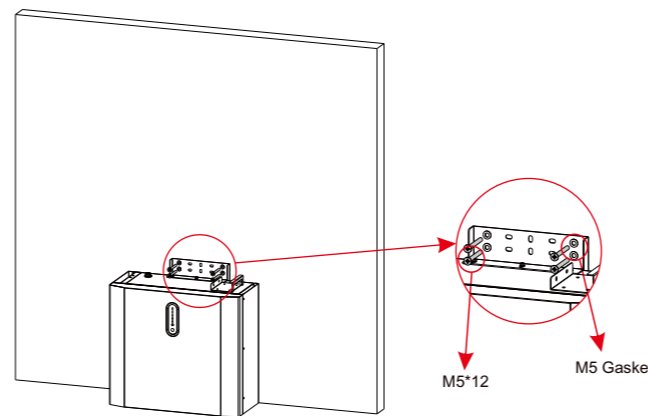
**Step 3** Position the battery parallel to the wall and use a  $\Phi 8$ mm drill to drill holes at a depth of about 70mm in the wall for subsequent fixation of the mounting plates.



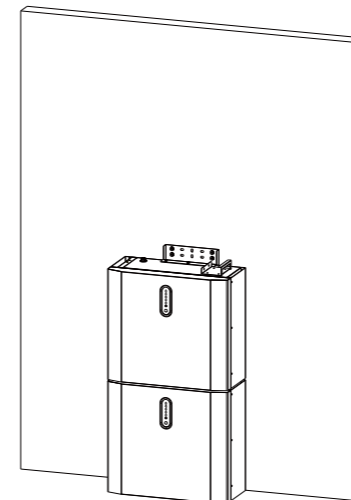
**NOTE:**

The type AC 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.

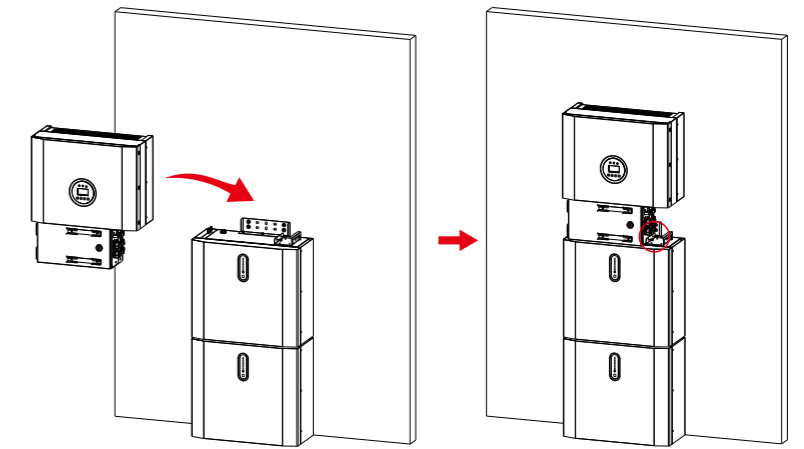


**Step 5** To assemble the second (and all other) battery, repeat steps 6 and 7, respectively.

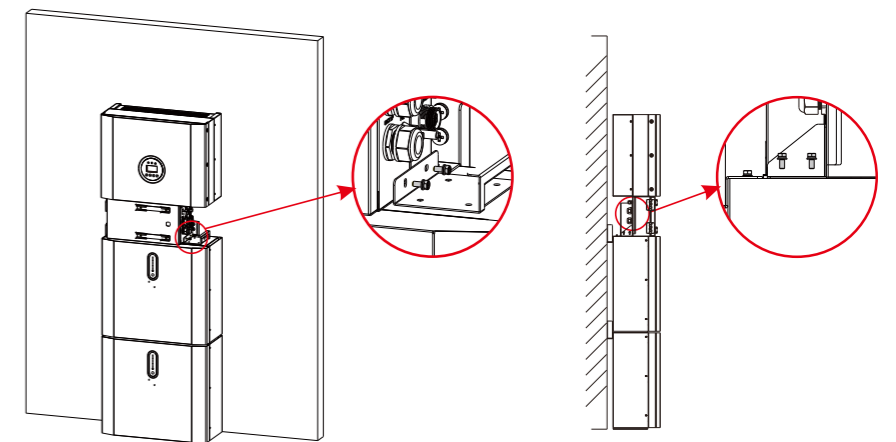


##### 2. Inverter Installation

**Step 6** Inverter Installation.



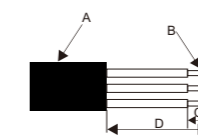
**Step 7** Hang the inverter onto the mounting panels, adjust the entire system and ensure that the battery and the inverter have been securely hung onto the panels and brackets.



##### 3. AC Cable Assembly and Connection

For all AC connections, 4-10mm<sup>2</sup> 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 10mm<sup>2</sup> 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 "⊕"



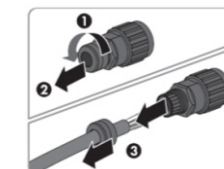
| Object | Description  | Value                                 |
|--------|--|---------------------------------------|
| A      | External diameter                                    | 12mm to 18mm                          |
| B      | Copper conductor cross-section                       | 4mm <sup>2</sup> to 10mm <sup>2</sup> |
| 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

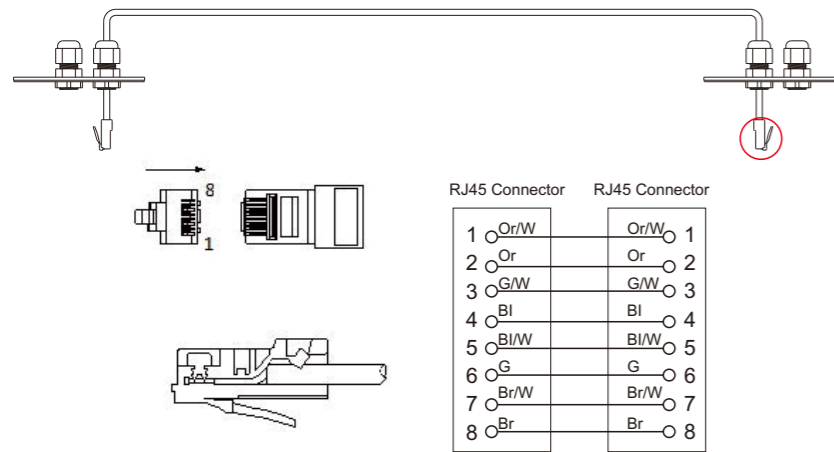
b. Insert the conductor into the suitable ferrule acc. to DIN 46228-4 and crimp the contact.



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



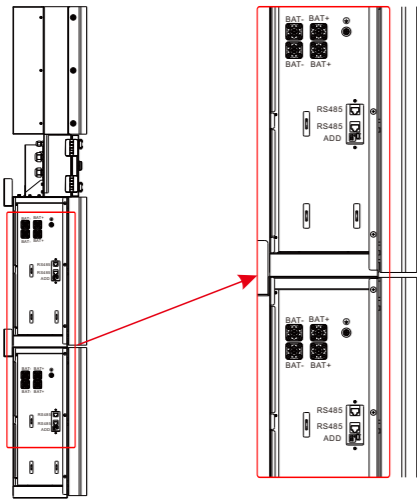
## 4. Battery Cable Assembly and Connection



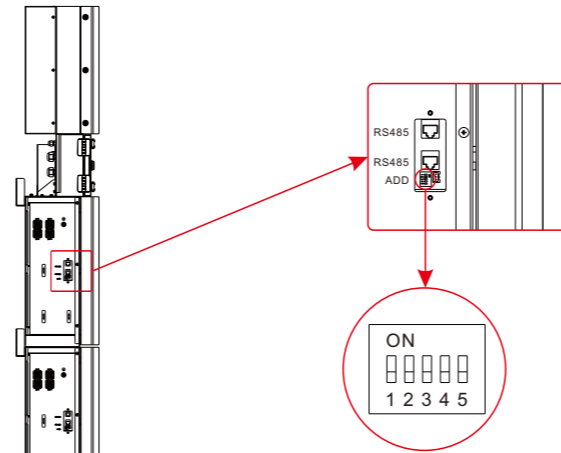
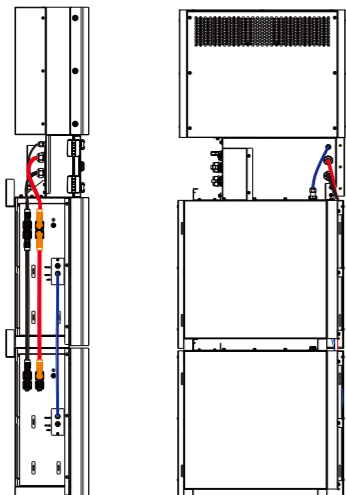
**NOTE:**

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.

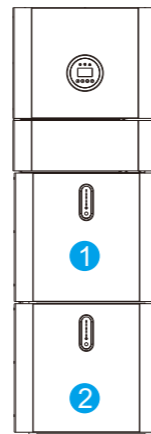


**Step10** Open the front cover of the last battery and remove the DIP cover. Now set the DIP switch 2 to "on" mode and close the cover again.

## 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.

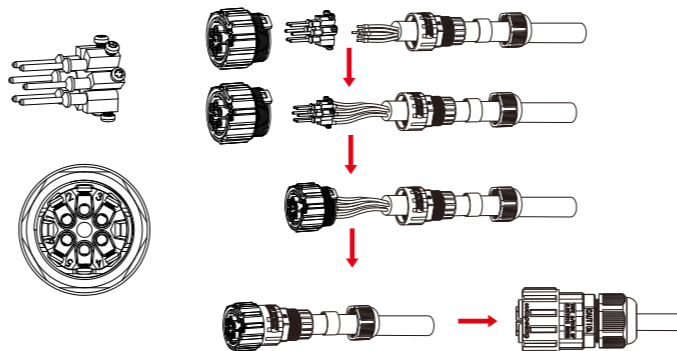


| address | DIP switch position |     |     |     |  |
|---------|---------------------|-----|-----|-----|--|
|         | #1                  | #2  | #3  | #4  |  |
| 1       | ON                  | OFF | OFF | OFF |  |
| 2       | OFF                 | ON  | OFF | OFF |  |
| 3       | ON           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

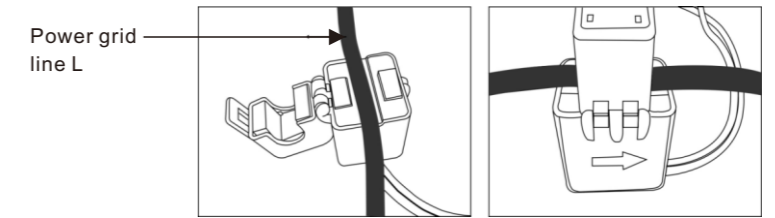
## 6. External CT connection

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.

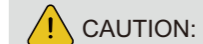
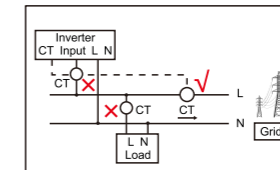
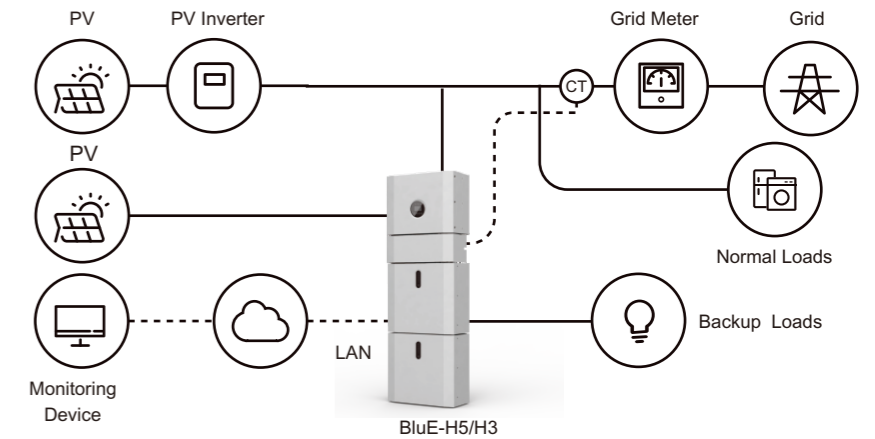
1. Loosen the nut, and untangle the single-aperture sealing ring.



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 notcontrollable or always 0 power output). Please check installation location of the CT.

## 7. Download APP

Scan the QR Code on the right side and download the APP.



iOS



Android

### 7.1 Connect Wi-Fi Datalogger

**Step 1:** Select the same number of Wi-Fi PlugII PN to connect on your phone WLAN. (Initial Password:12345678)

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

