Quick Installation Guide

1.Tools Required

The following tools will be required to install CM (Master) and CS (Slave) .
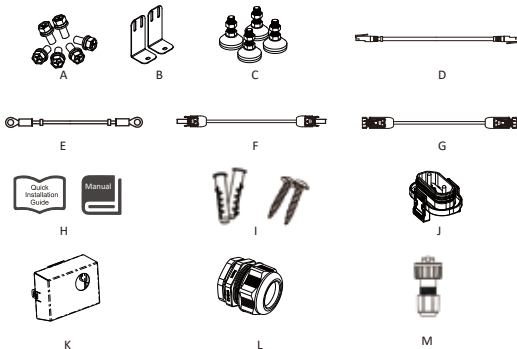

Screw Driver	Crimping Modular	Safety Shoes	Multimeter
Safety Gloves	Safety Goggles	Plier	Ribbon
Electric Drill	Track Level Bar	Tape	Marker

2. Packing List

For CS :

No.	Items
A	Mounting screw pack
B	Installation guide & User manual

For CM :

No.	Items	No.	Items
A	Mounting screw pack	H	Installation guide & User manual
B	Fixing bracket	I	Expansion tube*2 & Expansion screw*2
C	Footstand	J	Waterproof cover
D	Communication cable (BMS-inverter)	K	Junction box
E	Grounding cable	L	Cable gland
F	DC positive output cable	M	RJ45
G	DC negative output cable		

3. Terminals

For CS :

Handle
Battery Fixing Hole
Operating Status LED

For CM :

Left
Handle
Bracket Mounting Hole
Battery Fixing Hole

B-Start Switch
POWER Switch
BMS Status LED
SOC LED
Operating Status LED
DC Switch

Right
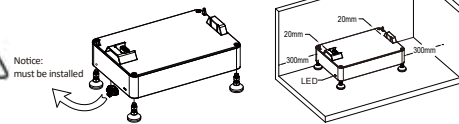Handle

CAN
DC OUT-
DC OUT+
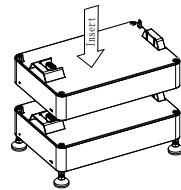Bracket Mounting Hole
Earth Terminal
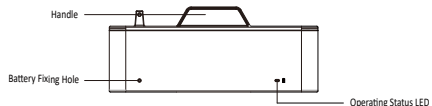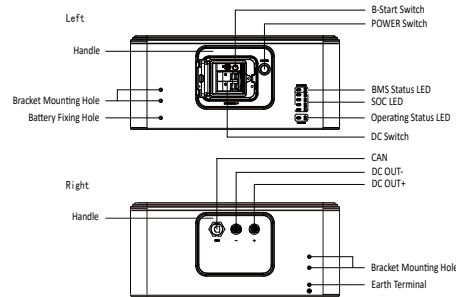
4. Installation Steps

Step 1
Install a CS with four footstand (Item C) and place it on the ground and adjust it to the level. After installing the feetstand, use a track level bar to confirm the level. Insert the waterproof cover (Item J) into the bottom of the battery and lock it in place with the clip.
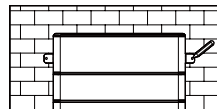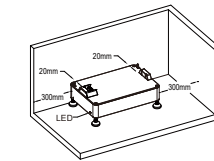
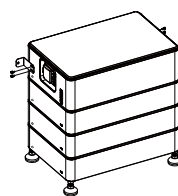**Step 2**
Place the battery 20mm against the wall. Note: Please make sure the Operating Status LED is on your left handside when you facing the battery model.
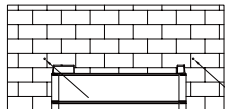

Notice: must be installed

Step 3
Stack the batteries one by one.

Step 4
Place the two fixing brackets (Item B) close to the wall and install them on both sides of the battery.
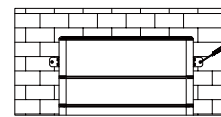

Step 5
Mark the wall through the bracket hole.

Step 6
Punch after removing the CM. Drill holes with electric drill, make sure the holes are at least 50mm deep, and then tighten the expansion tubes (Item I).
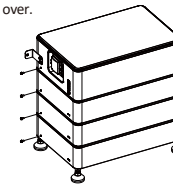

Step 7
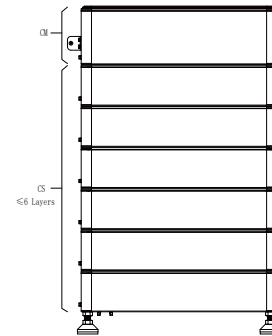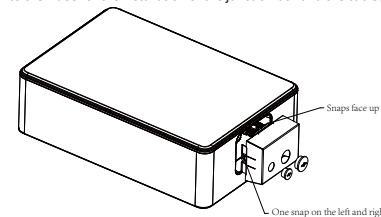After stacking CM again, fix the battery on the wall.

Step 8
Fix the mounting screw packs on both sides of the battery, the installation is over.

Note: Please make sure each system including 1 CM and 1 CS. CS less than 6 pieces:

CM
CS ≤6 Layers

Please refer to the video for the installation of the junction box and the cable gland.

Snaps face up
One snap on the left and right

5. Wiring Steps

A: Connect the inverter and make sure the wiring position is correct, as shown in the figure below.
Note: Inverter wiring refer to the inverter user manual.

For outdoor use,please use item H and proceed as follows
Connection steps:
Step 1: Prepare a standard network cable and cable connector, then insert the network cable through the cable connector.
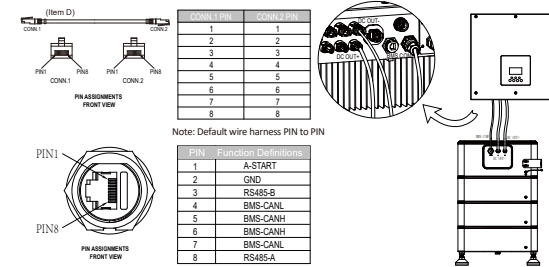

Step 2: Crimp the cable with a Rj45 plug which is inside of the cable connector.
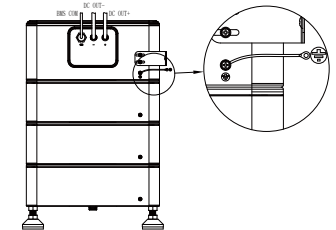

network cable
cable connecter
Rj45 plug
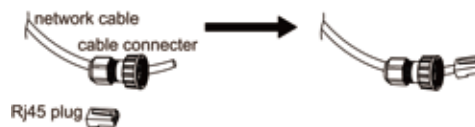
If the usage is indoor, please use item D

Step 3: Insert the cable connector into BMS port at the bottom of inverter and screw it tightly.

(Item D)		CONN 1 PIN	CONN 2 PIN
		1	1
		2	2
		3	3
		4	4
		5	5
		6	6
		7	7
		8	8

PIN ASSIGNMENTS FRONT VIEW

Note: Default wire harness PIN to PIN

PIN1
PIN8

PIN	Function Definitions
1	A-START
2	GND
3	RS485-B
4	BMS-CANL
5	BMS-CANH
6	BMS-CANH
7	BMS-CANL
8	RS485-A

PIN ASSIGNMENTS FRONT VIEW

B: Connect the grounding cable. The figure is shown in below.


BMS COM DC OUT- DC OUT+

6. System Start Up

CM operation:
1. Normal mode: When there is PV and grid access, turn on DC switch first, then press "POWER" button.
2. Black start: When there is no PV and grid access, turn on DC switch first, then press "POWER" button, then press and hold "B-Start" button and release it after 10s.

Startup steps:
Turn on DC switch and press the POWER switch, firstly Master LED will light up once, and then the BMS Status LED will light up for 0.5s,Operating Status LED will light up for 1s at the same time,it means that the system works normally.
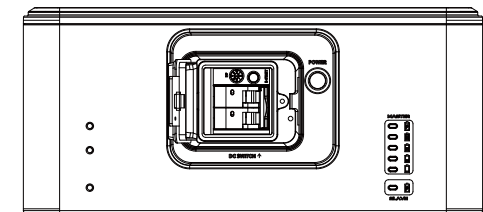
Please scan the QR Code and follow the steps below to download our latest multi-language User Manual/Quick Installation Guide:
Scan the QR Code → Select your Language → Choose to download User Manual or Quick Installation Guide → Download