



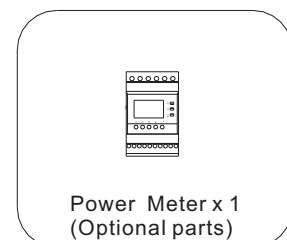
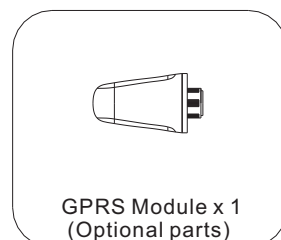
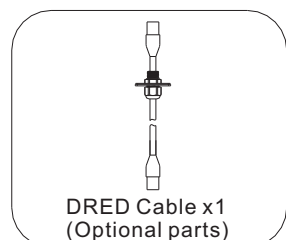
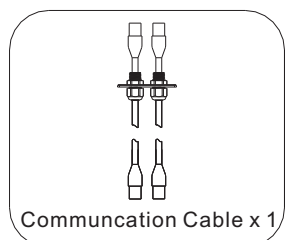
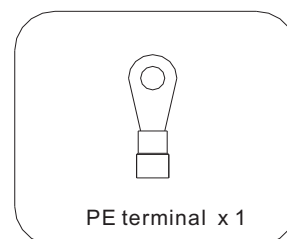
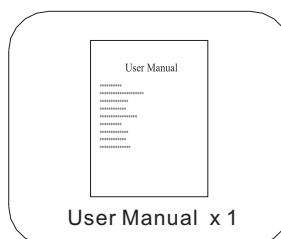
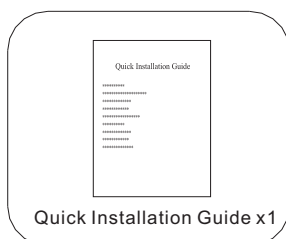
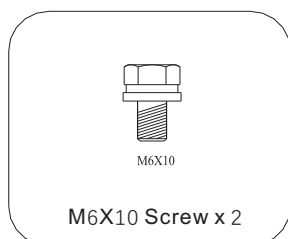
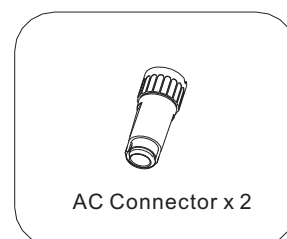
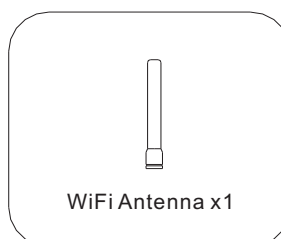
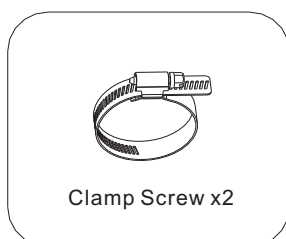
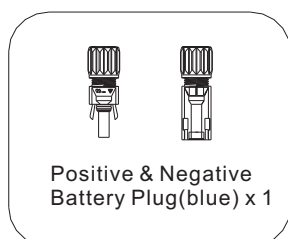
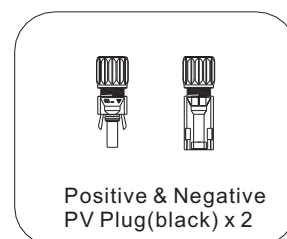
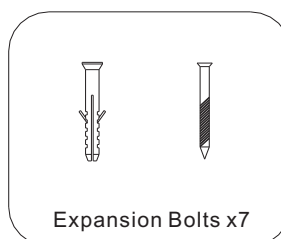
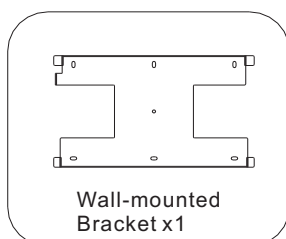
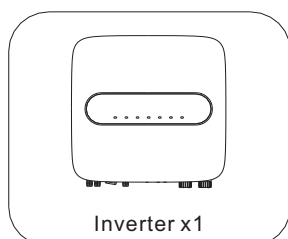
Quick Installation Guide

SMT-10K-TL-TH

Version: A01

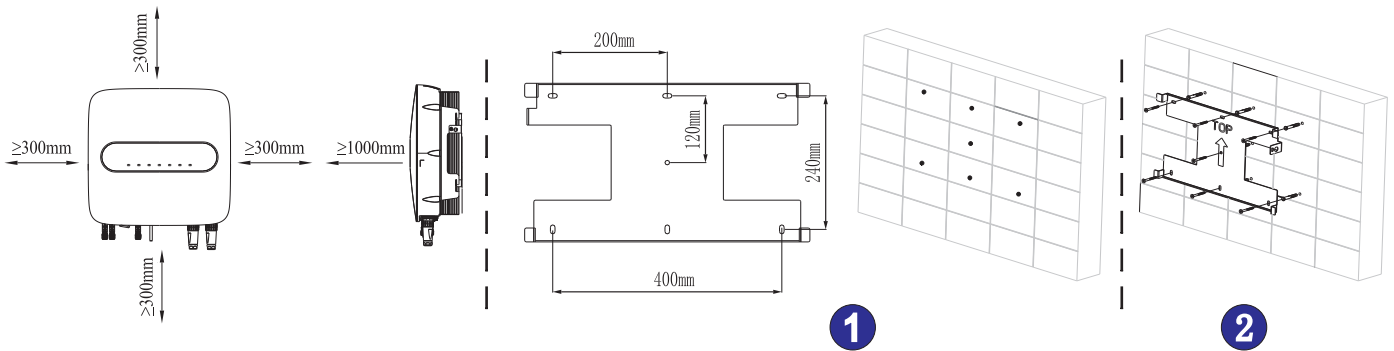


1 Packing List



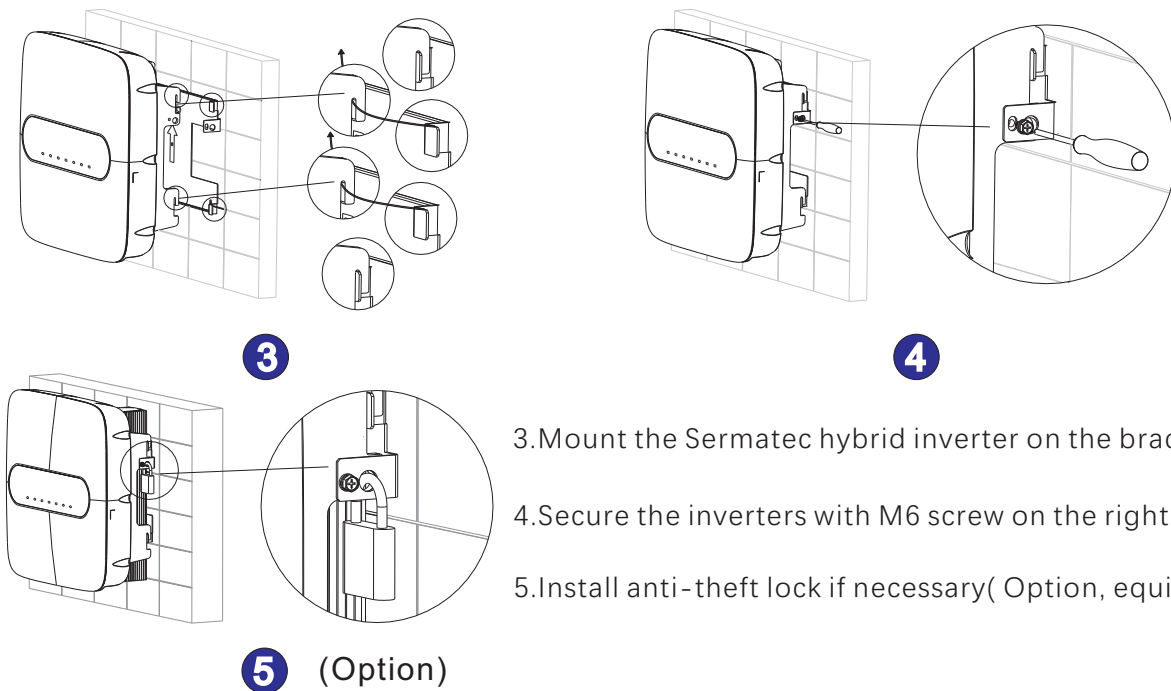
2 Mounting Steps

Mounting distance:



1. Mark mounting hole on the wall Drill hole with 8mm diameter of bit. Ensure a depth of 80mm.

2. Hammer expansion tube into the wall Mount bracket on the wall , keep aligned with the holes.

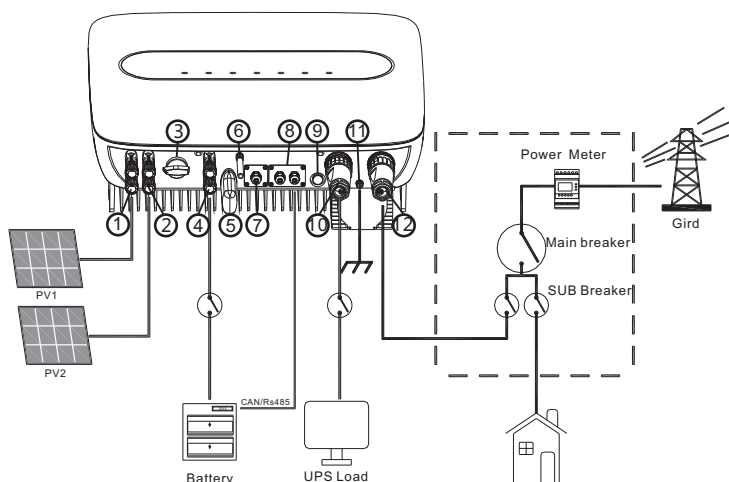


3. Mount the Sermatec hybrid inverter on the bracket.

4. Secure the inverters with M6 screw on the right side.

5. Install anti-theft lock if necessary(Option, equipped by user).

3 Hybrid Inverter System connection Diagram



1. PV1 Connector

2. PV2 Connector

3. PV Switch

4. Battery Connector

5. GPRS Module

6. Wi-Fi Antenna

7. DRED Interface

8. Communication Interface

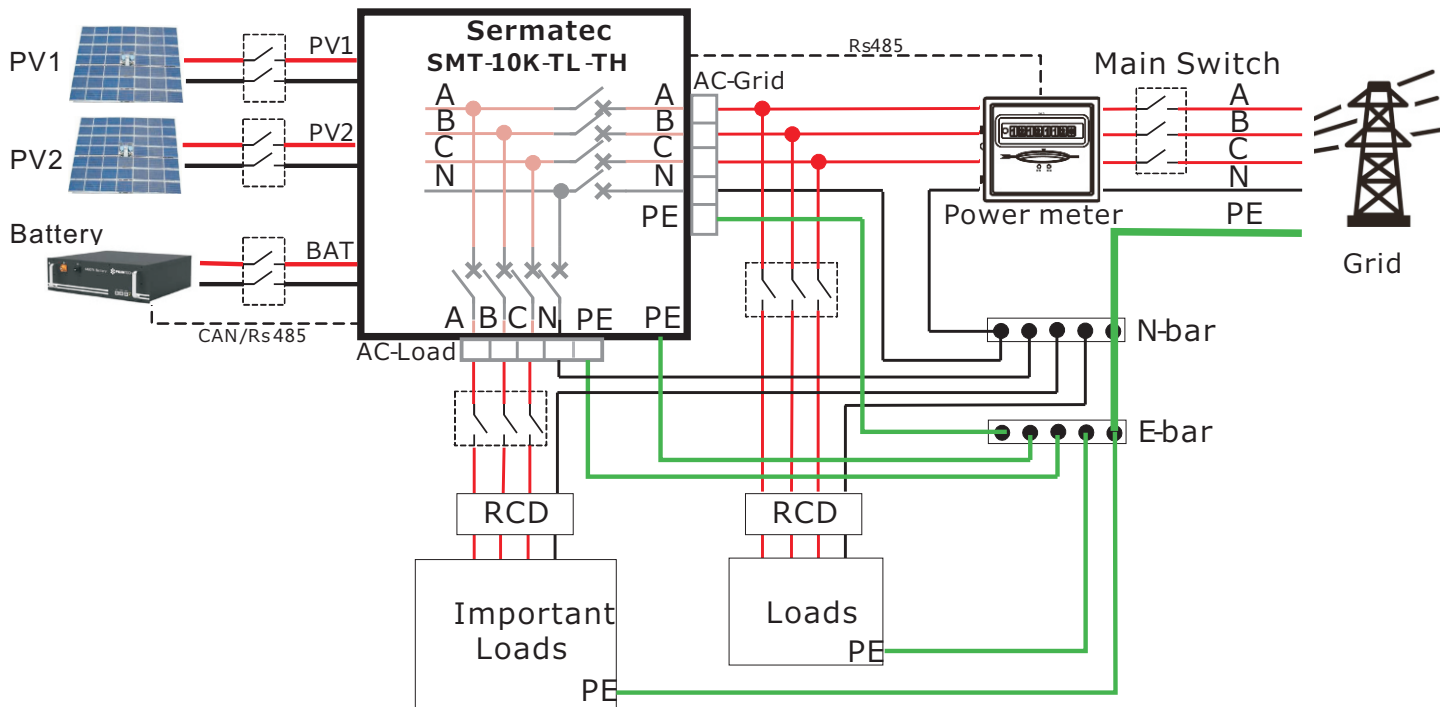
9. Waterproof vent valve

10. AC Load Connector

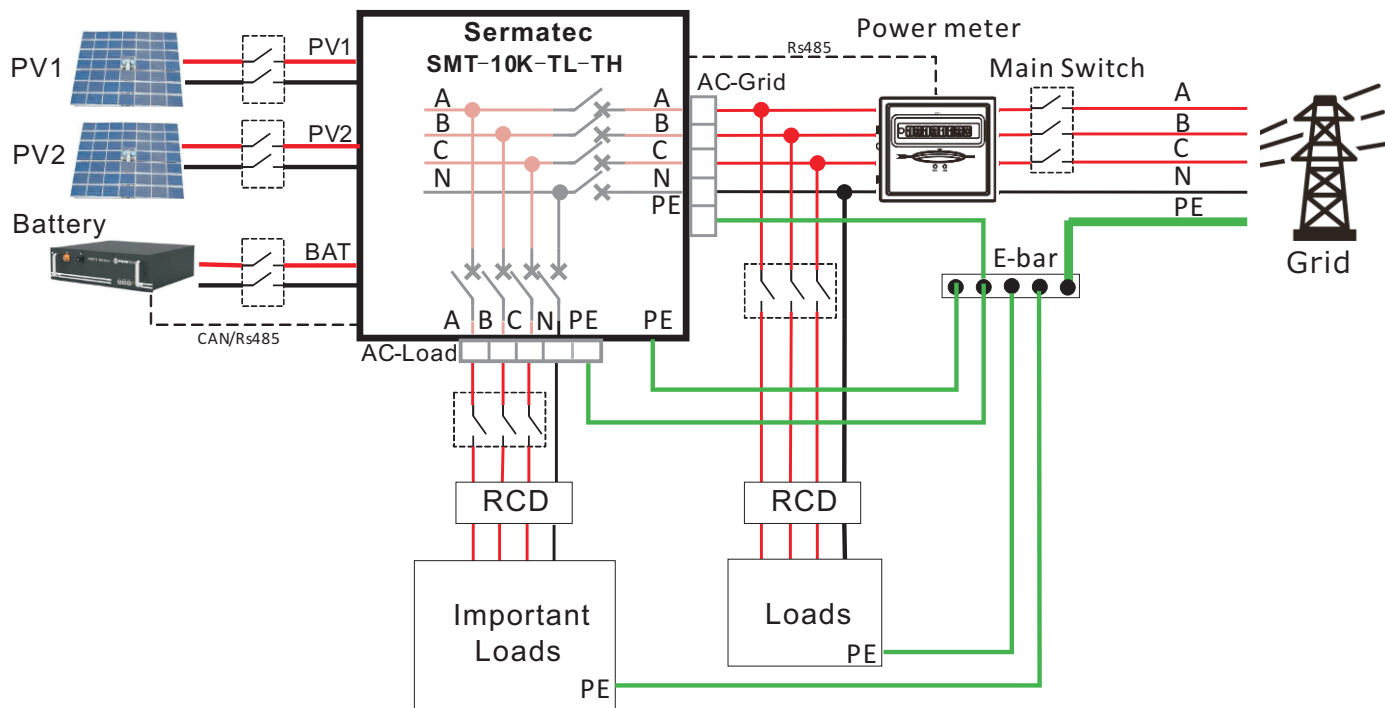
11. PE Connection Point

12. AC Grid Connector

For AU/NZ:



For Other Countries:

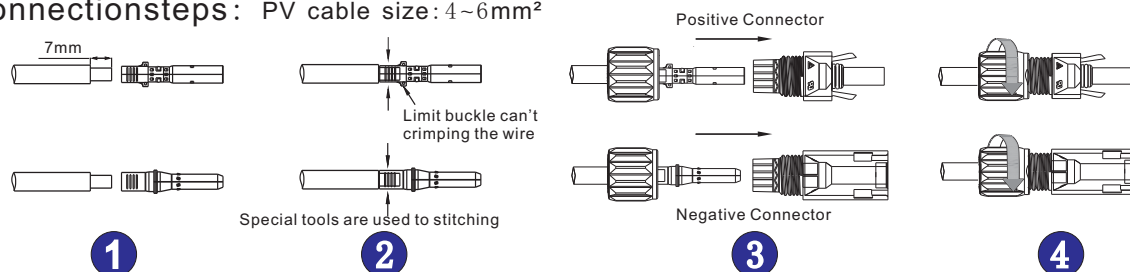


Recommended DC Switch			Recommended AC Switch		
	PV (option)	Battery (option)		AC Load	AC Grid
Rated Voltage	≥1000VDC	≥800VDC	Rated Voltage	≥250VAC	≥250VAC
Rated Current	20A	32A	Rated Current	25A	25A



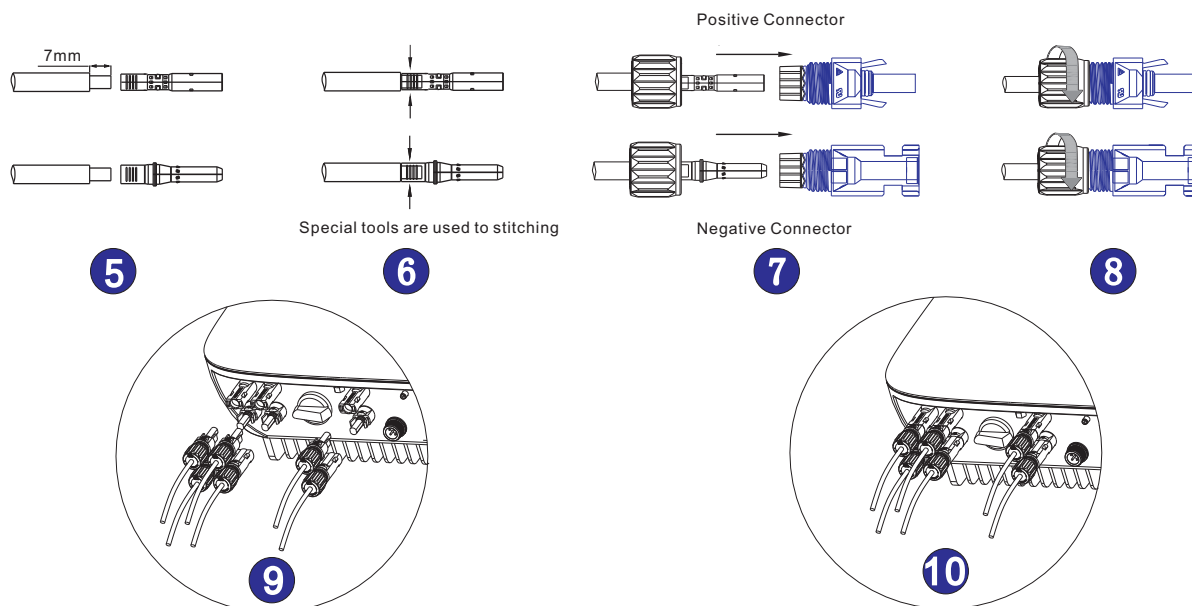
4 PV and Battery Connection

PV Connection steps: PV cable size: 4~6mm²



Battery Connection steps:

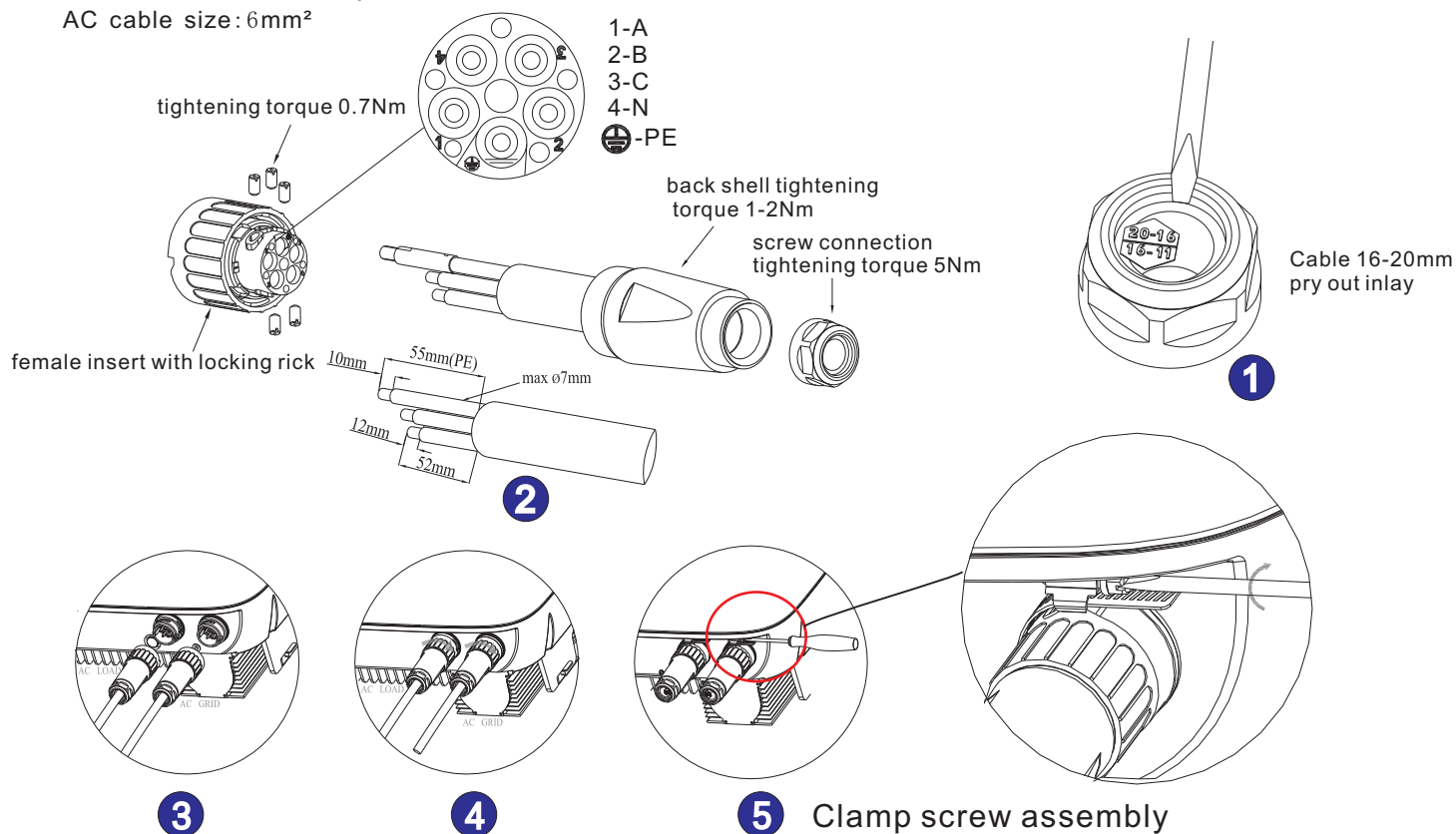
Battery cable size: 6mm²



5 AC and Earth Connection

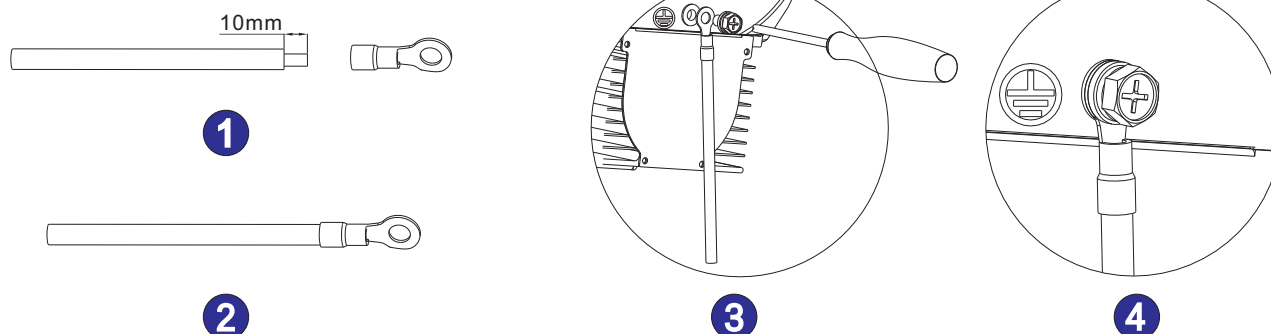
AC Connection steps:

AC cable size: 6mm²



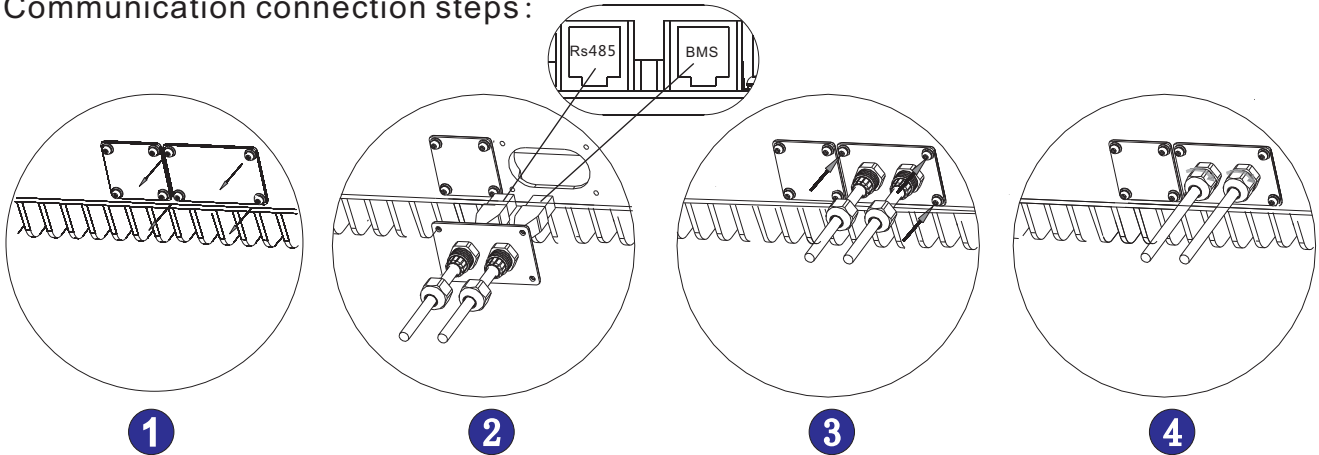
Earth connection steps:

PE cable size: 4~6mm²

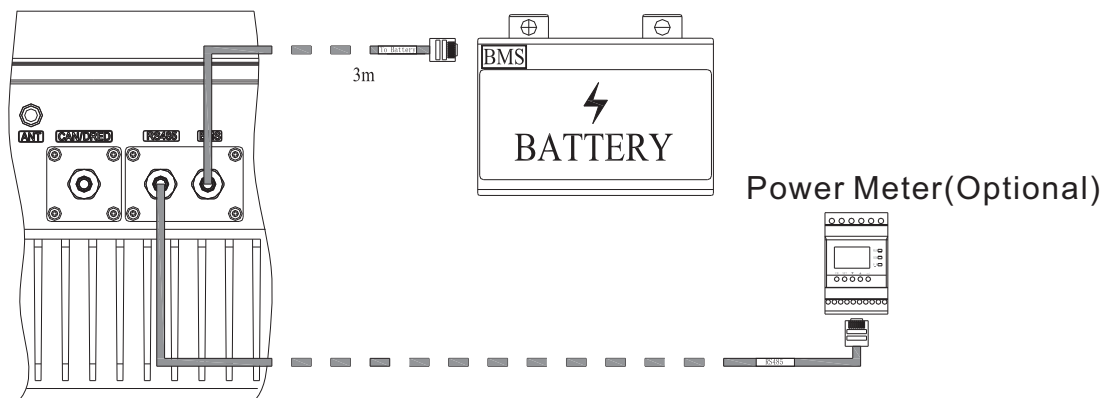


6 Communication Connection

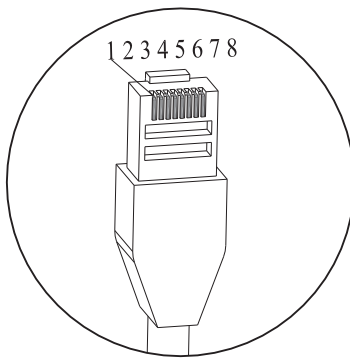
Communication connection steps:



Communication cable connection diagram:



The RJ45 socket pin assignments for BMS and RS485 as follows:

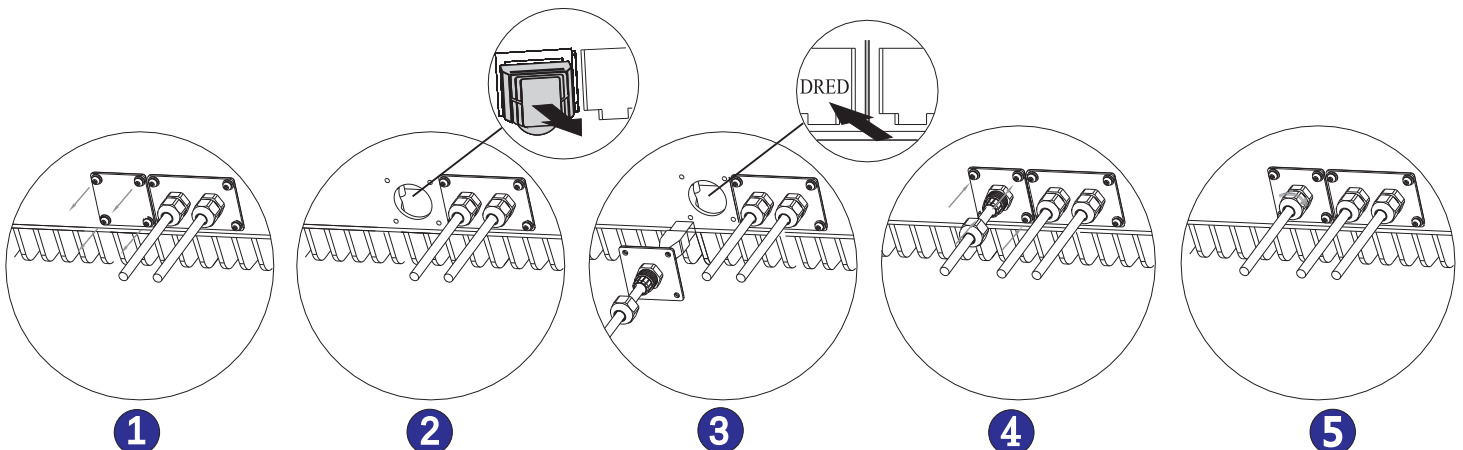


RS485		
PIN	Signal Name	Cable Color
1	NC	Orange-white
2	NC	Orange
3	485B_B	Green-white
4	COM	Blue
5	COM	Blue-white
6	485B_A	Green
7	485B_B	Brown-white
8	485B_A	Brown

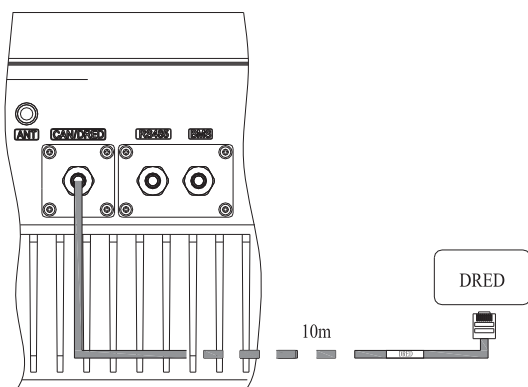
BMS		
PIN	Signal Name	Cable Color
1	485A_B	Orange-white
2	485A_A	Orange
3	COM	Green-white
4	CAN_H	Blue
5	CAN_L	Blue-white
6	COM	Green
7	485A_A	Brown-white
8	485A_B	Brown

7 DRED cable assembly (Optional)

DRED cable assembly steps (Optional):

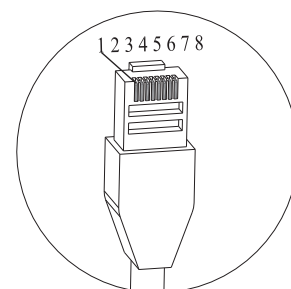


DRED cable connection diagram:



The RJ45 socket pin assignments for demand response modes as follows:

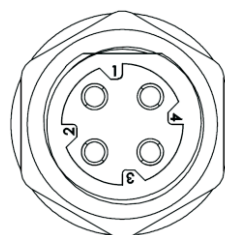
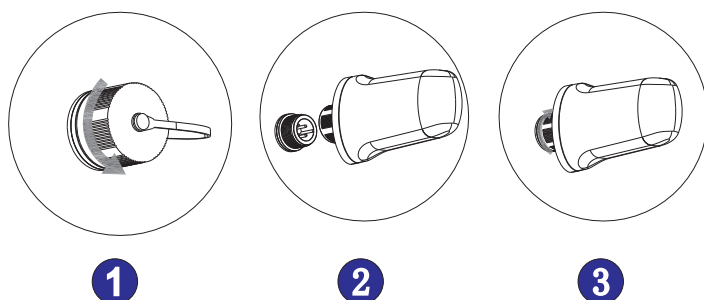
DRED		
PIN	Signal Name	Cable Color
1	DRM 1/5	Orange-white
2	DRM 2/6	Orange
3	DRM 3/7	Green-white
4	DRM 4/8	Blue
5	RefGen	Blue-white
6	Com/DRM0	Green
7	N/A	Brown-white
8	N/A	Brown



8 GPRS Module(Optional) and Wi-Fi Antenna Connection

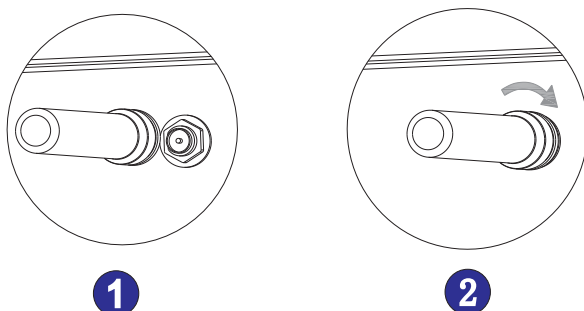
GPRS Module Connection steps(Optional):

The GPRS socket pin assignments as follows:



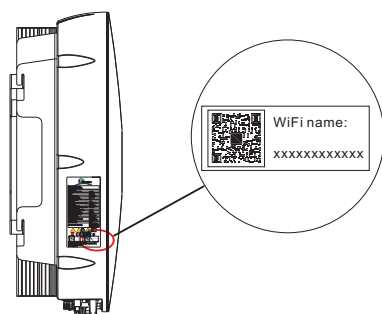
GPRS	
PIN	Signal Name
1	VCC
2	GND
3	485A
4	485B

Wi-Fi Antenna Connection steps:



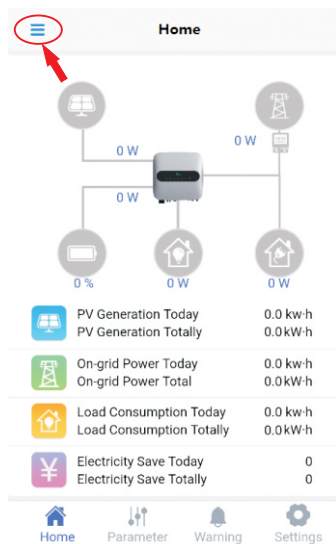
9 APP starting up guide

Connect to internal Wi-Fi:

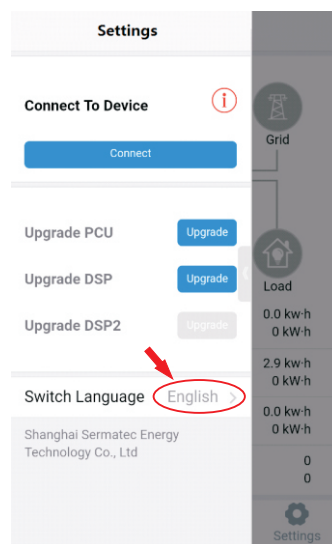


1. Find Wi-Fi name from the label on the inverters, and connect to Wi-Fi by initial password "gsstes123456".

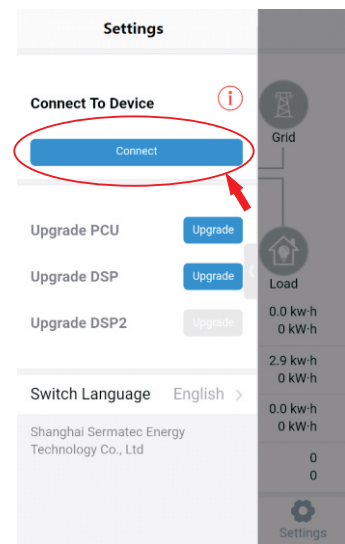
2. Enter APP main page



3. Language Setting

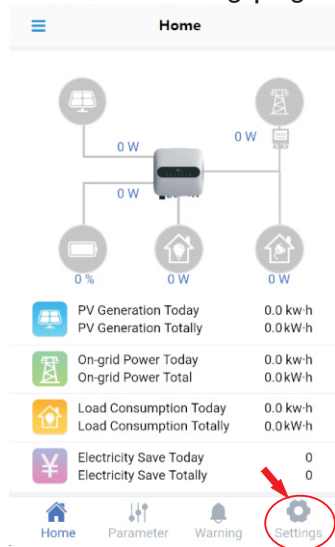


4. Connect to Device



Setup system running parameters:

1. Enter the setting page



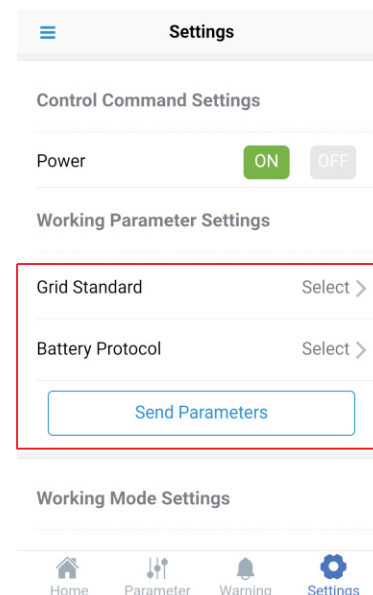
2. Working Parameter Settings

a. Setting “**Grid Standard**”

b. Setting “**Battery Protocol**”

Tap “**Send Parameters**” to set

Need to enter the password “sermatec2015”



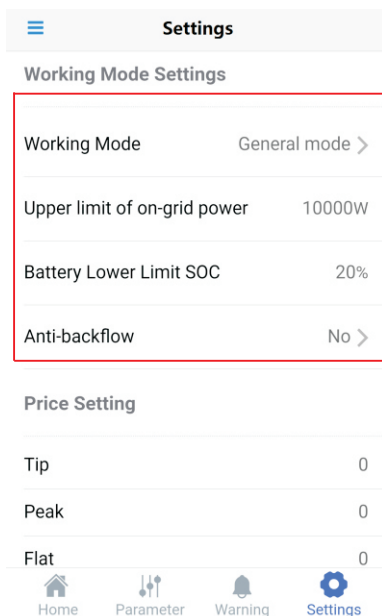
3. Working Mode Settings

a. Select “**Working Mode**”

b. Select “**On-grid power**”

c. “**Battery Lower Limit SOC**” setting

d. Select “**Anti-backflow**”



4. Price setting

5. Period setting

Tap **"Send Parameters"** to finish setting

Parameter	Comment	
Working Mode	General Mode	Self-Consumption If PV is sufficient,PV supply power to the load priority,then charge battery,feeding into grid with surplus power. When PV is insufficient,grid and batteries supply power to the load together. Anti-backflow default disable.
	Battery Mode	Battery backup PV and grid supply power to load and charge batteries together.When the grid is normal, the battery SOC is always in full state,batteries discharge only when the grid is abnormal. Anti-backflow default enable.
	Microgrid Mode	Non-grid scenarios PV and battery constitute a off-grid system. If PV is sufficient,PV supply power to the load priority,then charge battery, When PV is insufficient, batteries supply power to the load.

Send command of starting up:

Tap **"ON"** to send command



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