

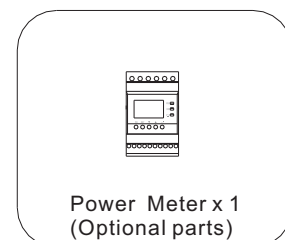
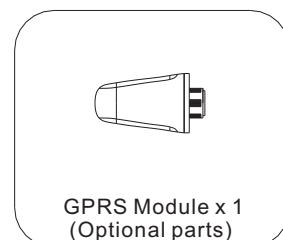
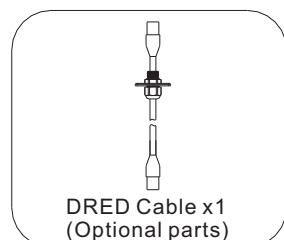
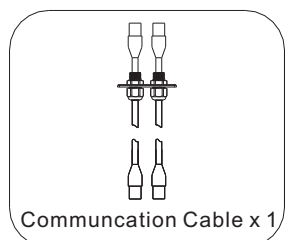
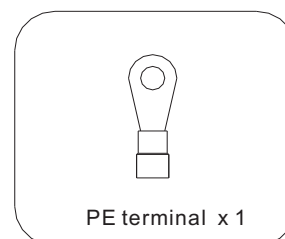
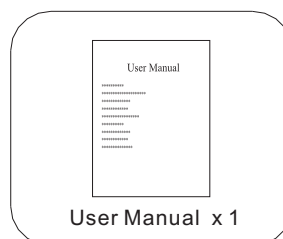
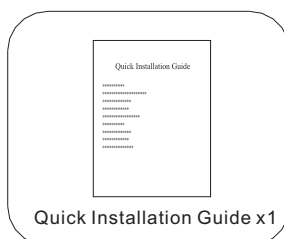
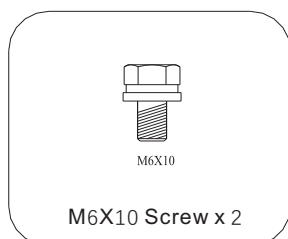
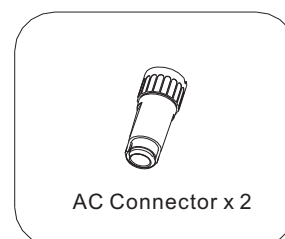
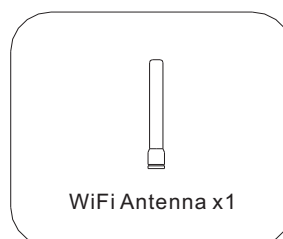
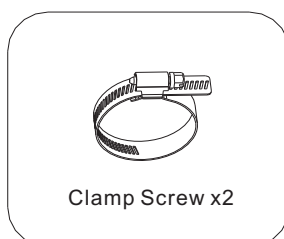
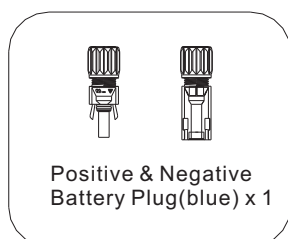
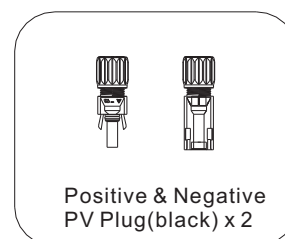
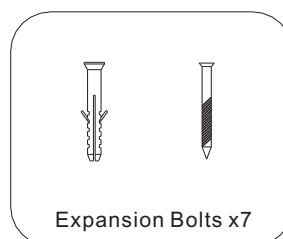
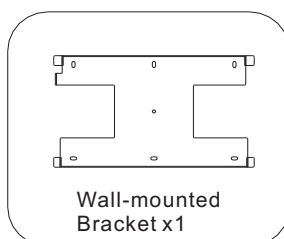
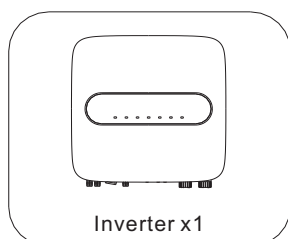


# Quick Installation Guide

SMT-10K-TL-TH

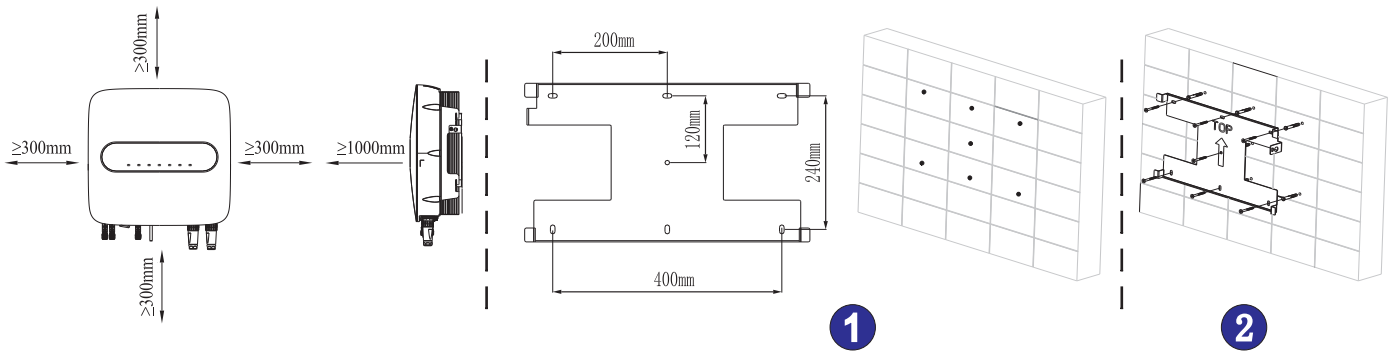


## 1 Packing List



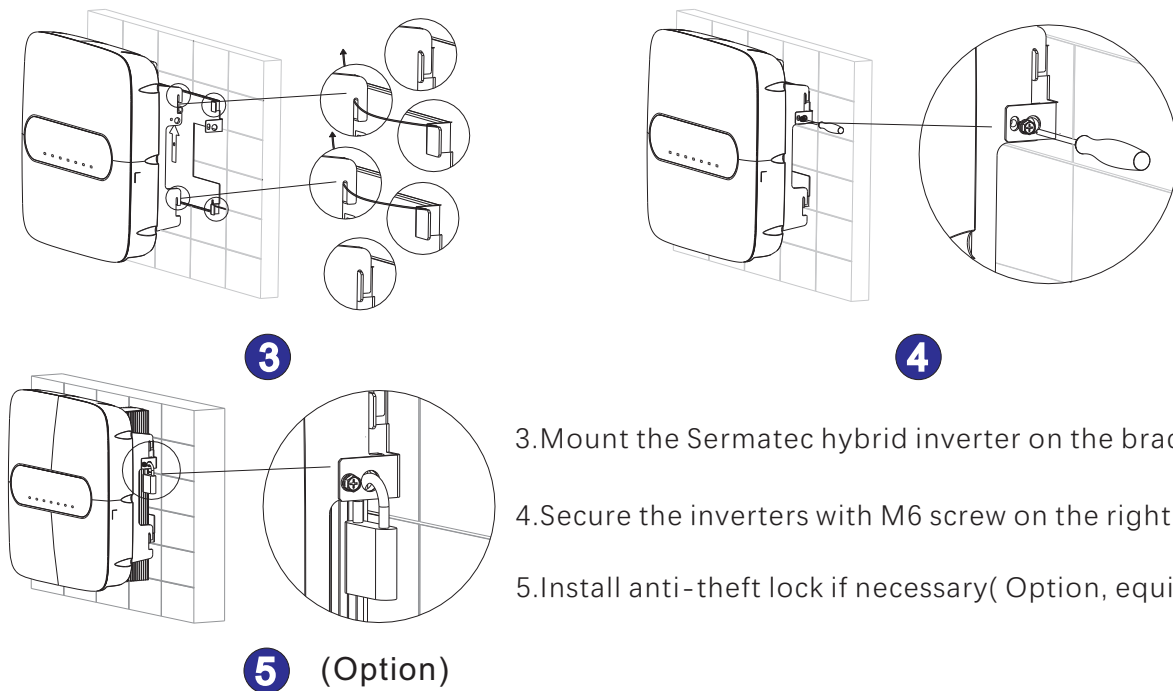
## 2 Mounting Steps

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.

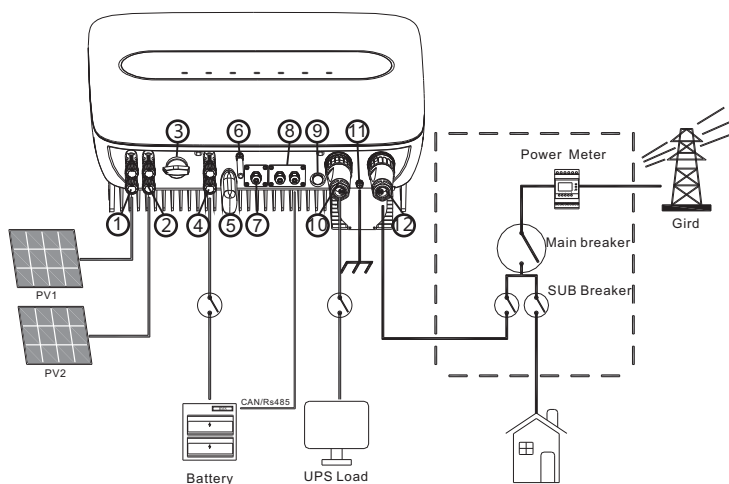


3. Mount the Sermatec hybrid inverter on the bracket.

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

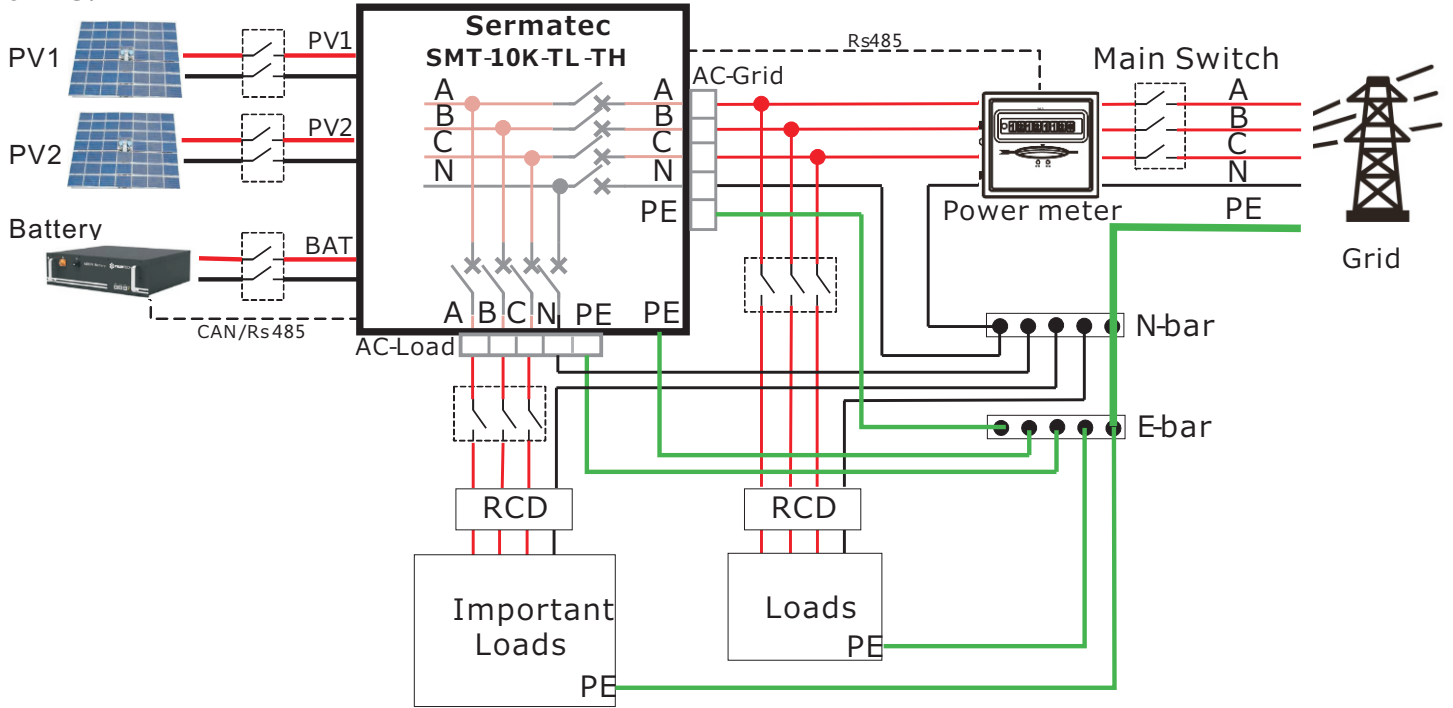
9. Waterproof vent valve

10. AC Load Connector

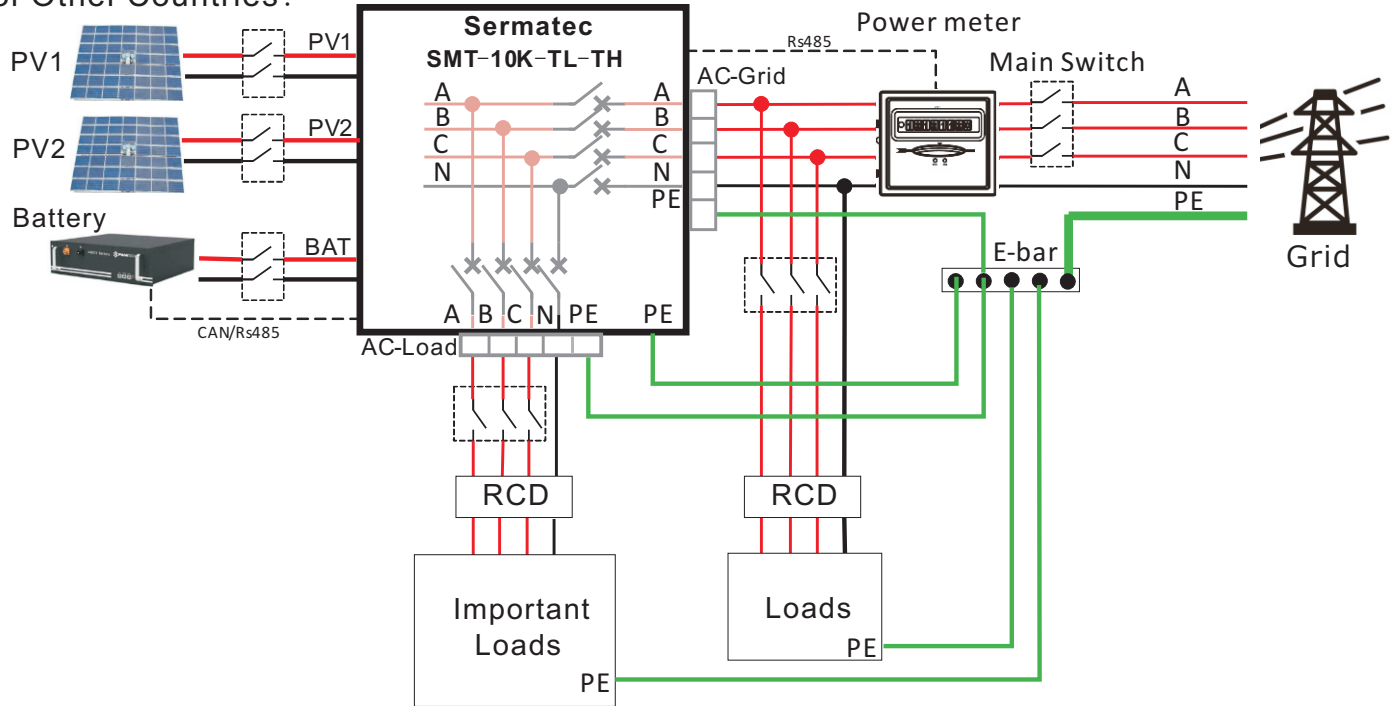
11. PE Connection Point

12. AC Grid Connector

For AU/NZ:

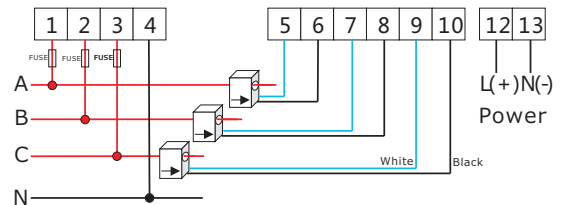


For Other Countries:



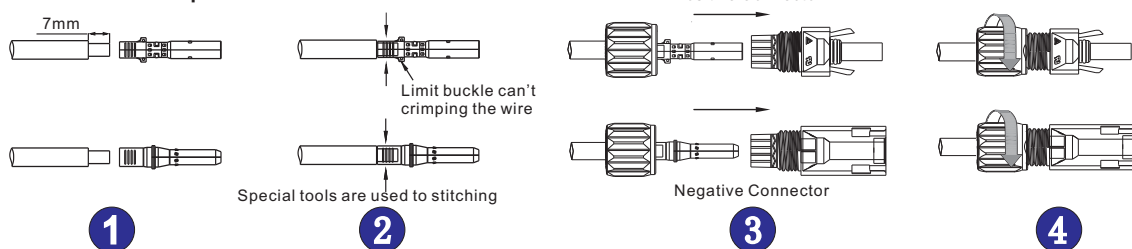
Recommended DC Switch		
	PV (option)	Battery (option)
Rated Voltage	≥1000VDC	≥800VDC
Rated Current	20A	32A
Recommended AC Switch		
	AC Load	AC Grid
Rated Voltage	≥250VAC	≥250VAC
Rated Current	25A	25A

The Power Meter connection diagram:



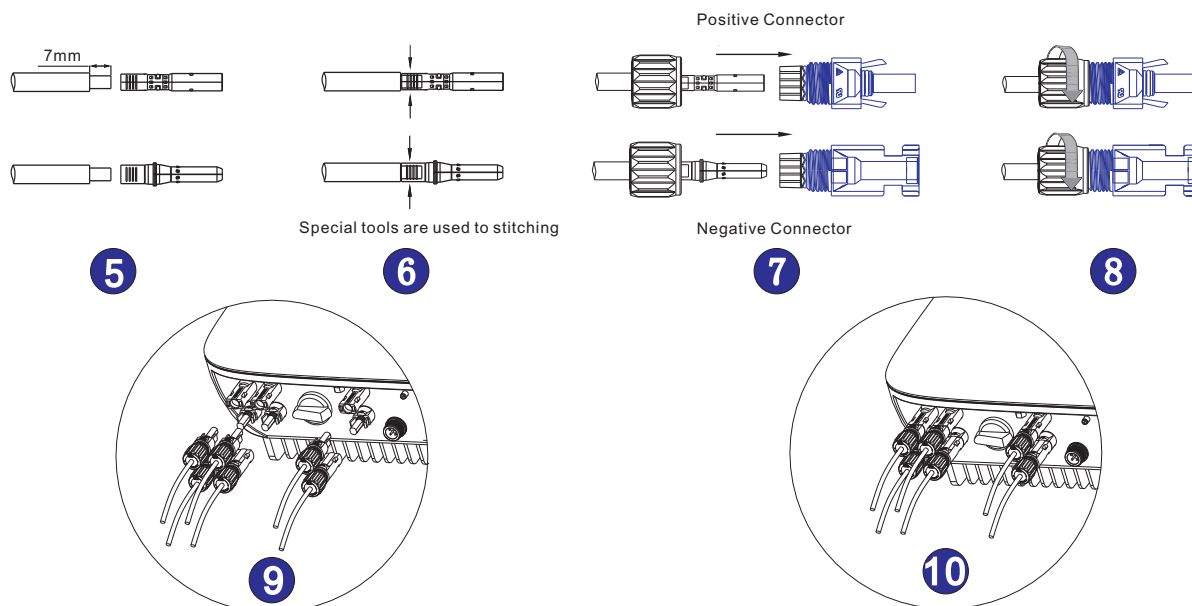
## 4 PV and Battery Connection

PV Connection steps: PV cable size: 4~6mm<sup>2</sup>



## Battery Connection steps:

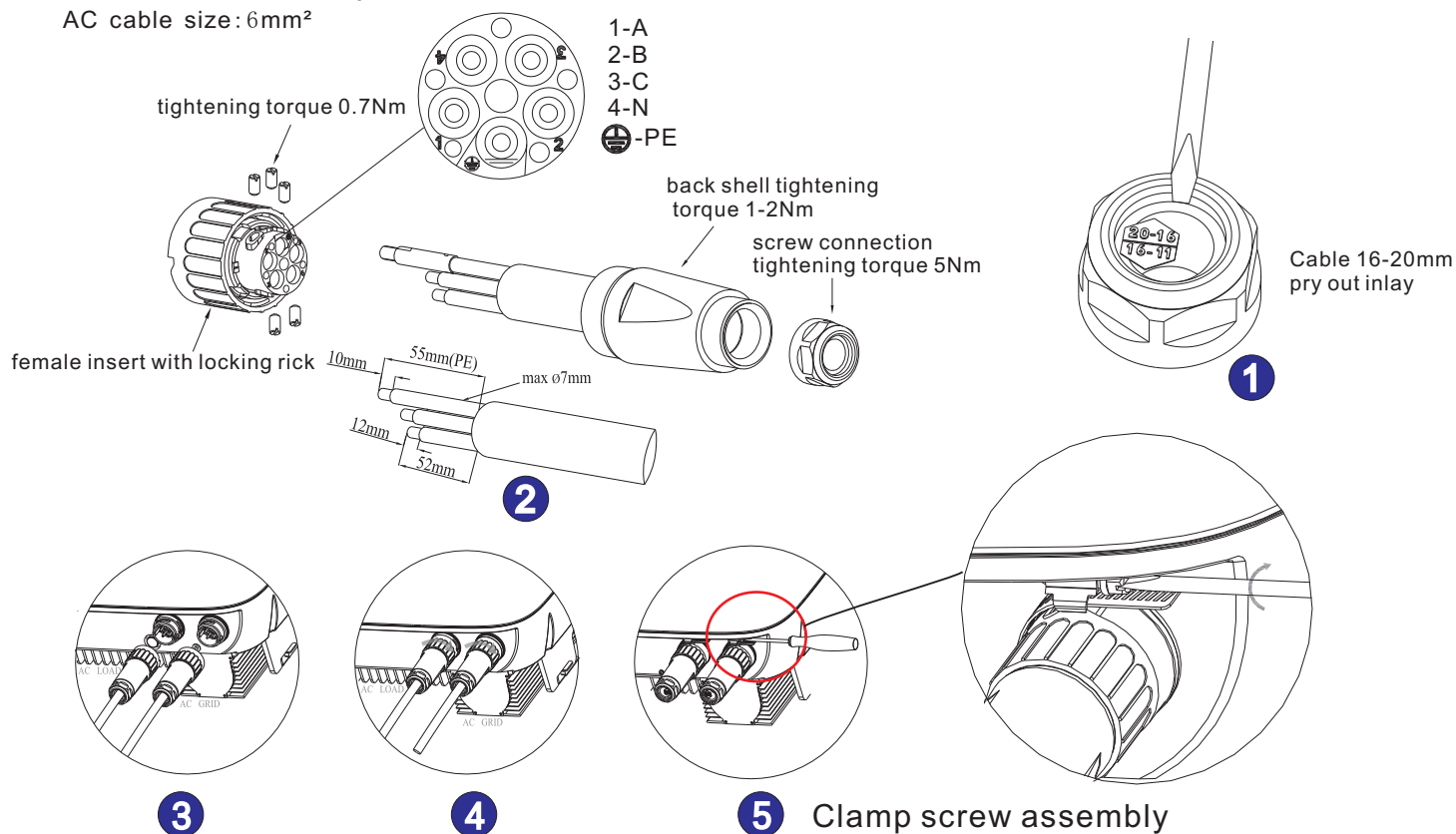
Battery cable size: 6mm<sup>2</sup>



## 5 AC and Earth Connection

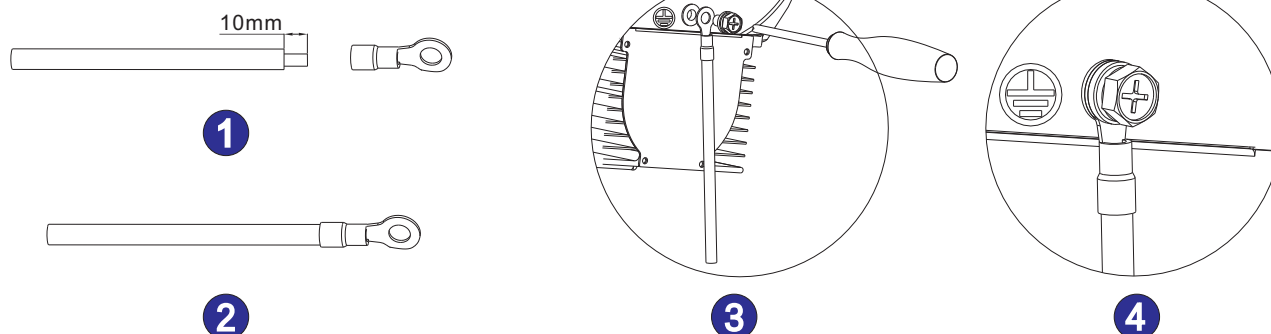
### AC Connection steps:

AC cable size: 6mm<sup>2</sup>



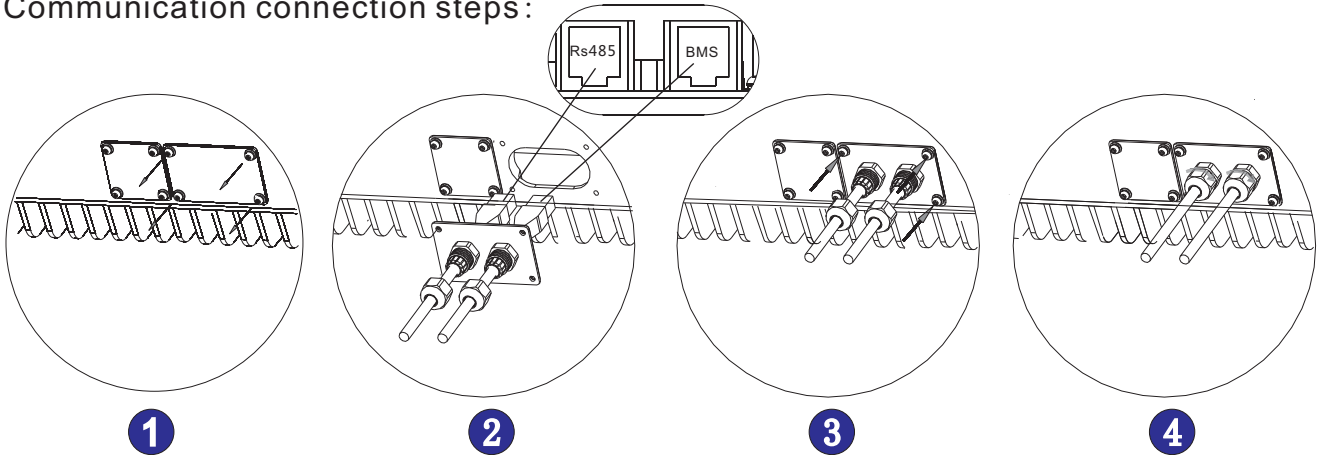
### Earth connection steps:

PE cable size: 4~6mm<sup>2</sup>

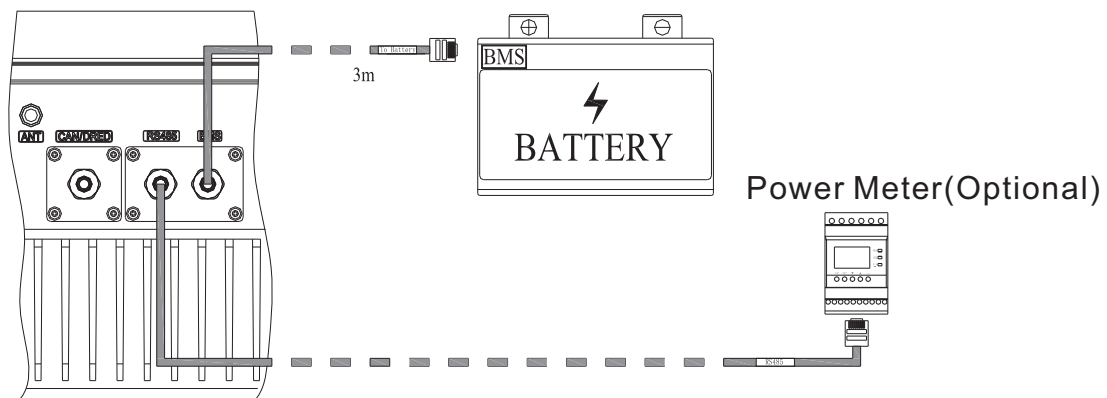


## 6 Communication Connection

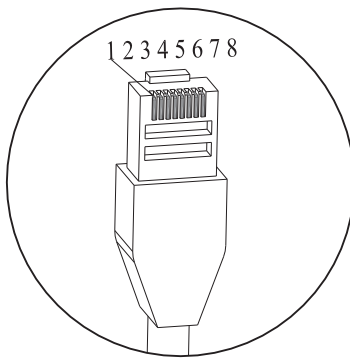
Communication connection steps:



Communication cable connection diagram:



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

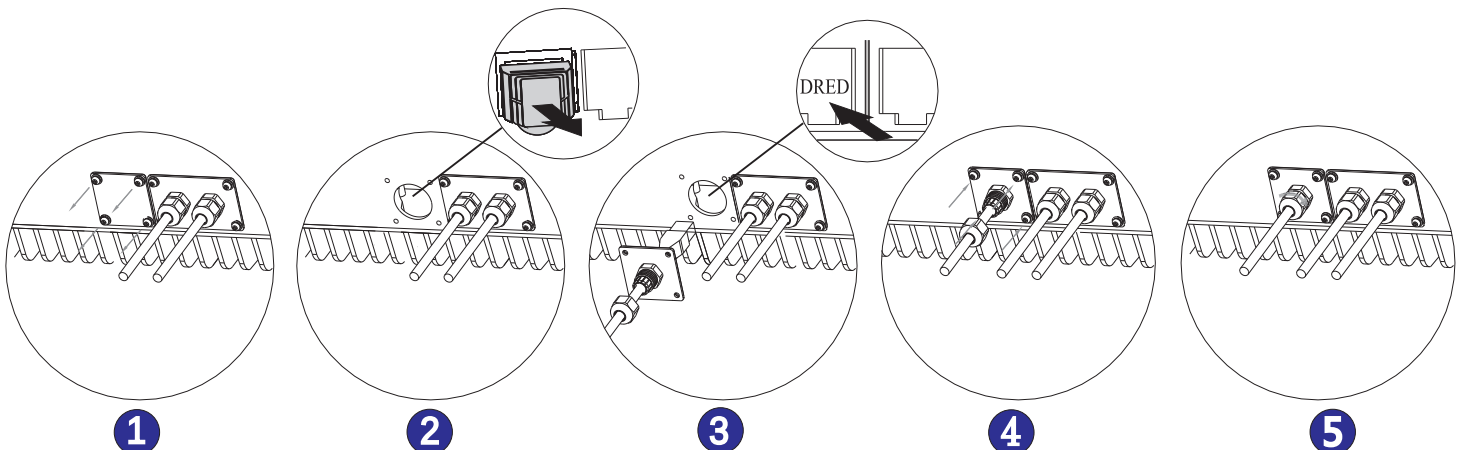


RS485		
PIN	Signal Name	Cable Color
1	NC	Orange-white
2	NC	Orange
3	485B_B	Green-white
4	COM	Blue
5	COM	Blue-white
6	485B_A	Green
7	485B_B	Brown-white
8	485B_A	Brown

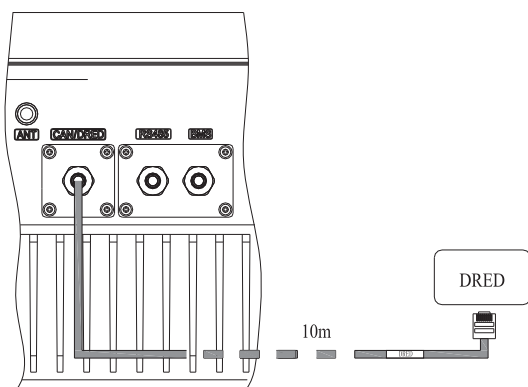
BMS		
PIN	Signal Name	Cable Color
1	485A_B	Orange-white
2	485A_A	Orange
3	COM	Green-white
4	CAN_H	Blue
5	CAN_L	Blue-white
6	COM	Green
7	485A_A	Brown-white
8	485A_B	Brown

## 7 DRED cable assembly (Optional)

DRED cable assembly steps (Optional):

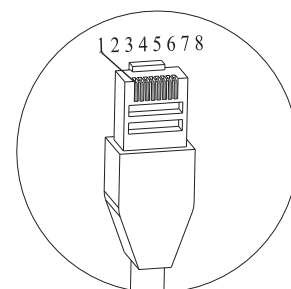


DRED cable connection diagram:



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

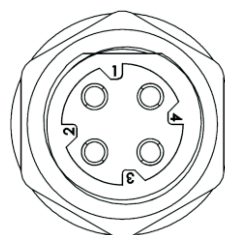
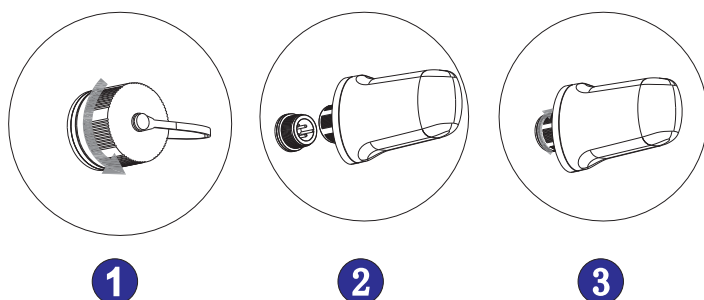
DRED		
PIN	Signal Name	Cable Color
1	DRM 1/5	Orange-white
2	DRM 2/6	Orange
3	DRM 3/7	Green-white
4	DRM 4/8	Blue
5	RefGen	Blue-white
6	Com/DRM0	Green
7	N/A	Brown-white
8	N/A	Brown



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

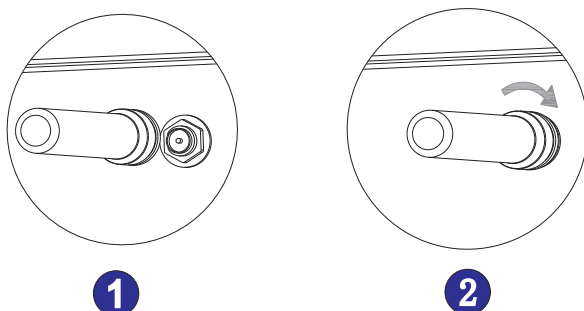
GPRS Module Connection steps(Optional):

The GPRS socket pin assignments as follows:



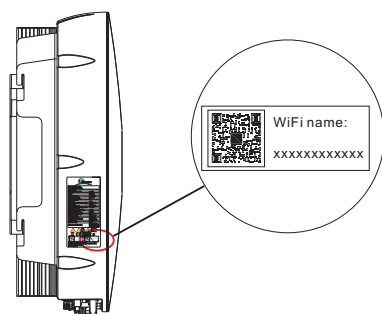
GPRS	
PIN	Signal Name
1	VCC
2	GND
3	485A
4	485B

Wi-Fi Antenna Connection steps:



## 9 APP starting up guide

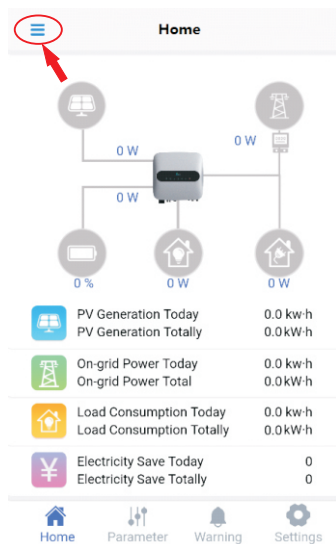
Connect to internal Wi-Fi:



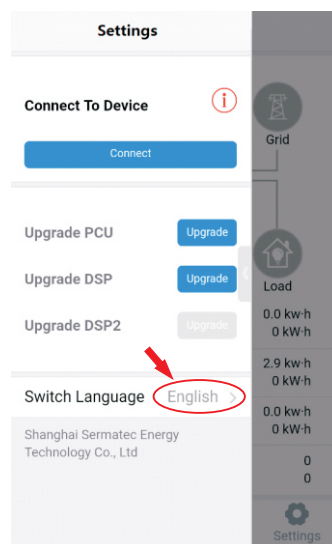
1. Find Wi-Fi name from the label on the inverters, and connect to Wi-Fi by initial password "gsstes123456".



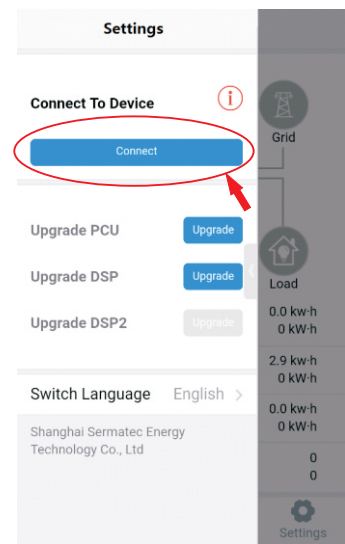
## 2. Enter APP main page



## 3. Language Setting

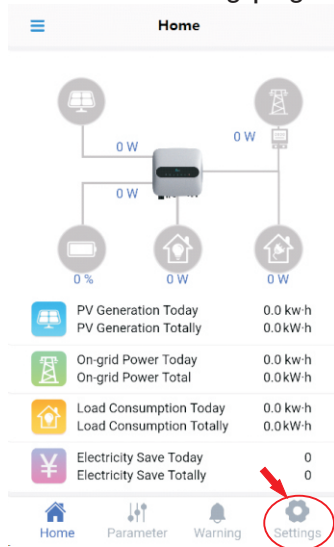


## 4. Connect to Device



## Setup systemrunning parameters:

### 1. Enter the setting page

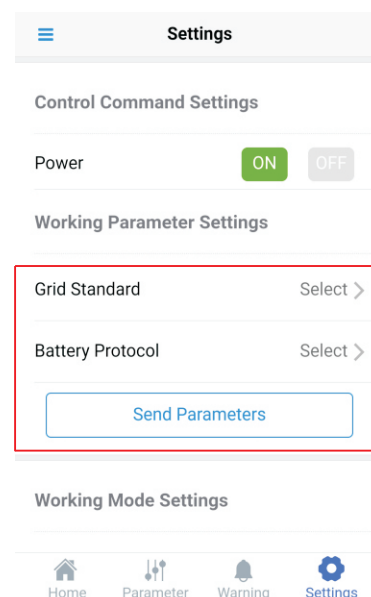


### 2. Working Parameter Settings

a. Setting “Grid Standard”

b. Setting “Battery Protocol”

Tap “Send Parameters” to set



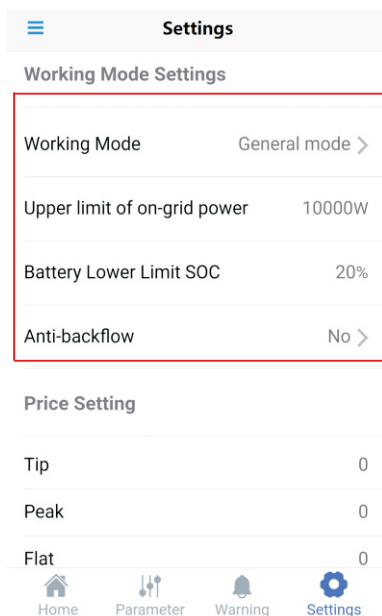
### 3. Working Mode Settings

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	<b>Self-Consumption</b> 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	<b>Battery backup</b> 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	<b>Non-grid scenarios</b> 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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