



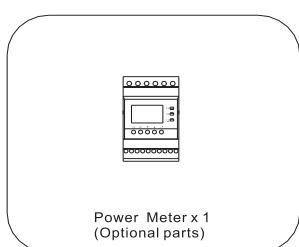
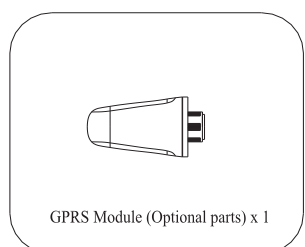
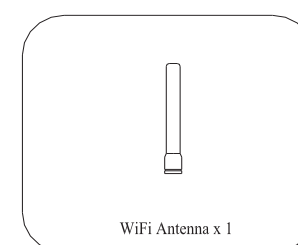
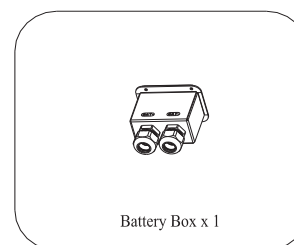
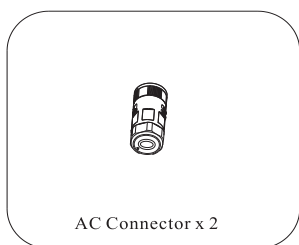
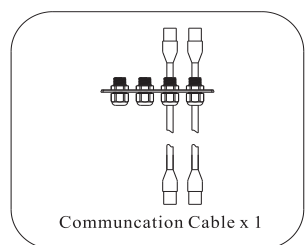
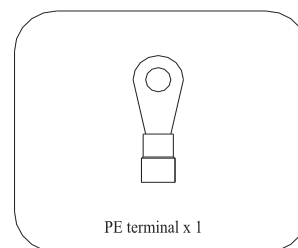
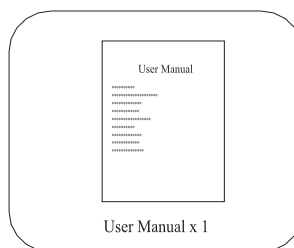
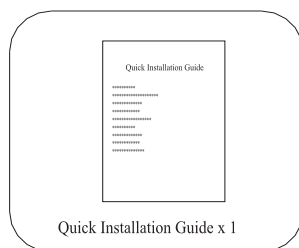
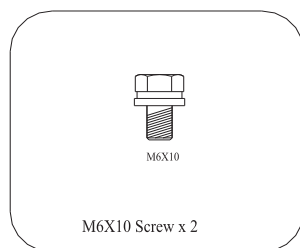
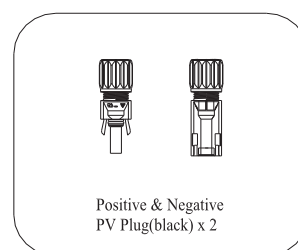
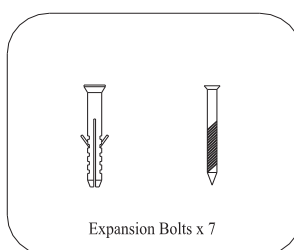
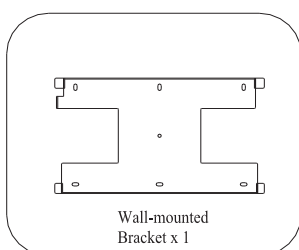
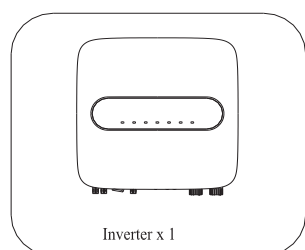
Quick Installation Guide

SMT-5K-TL-LV

version: A02

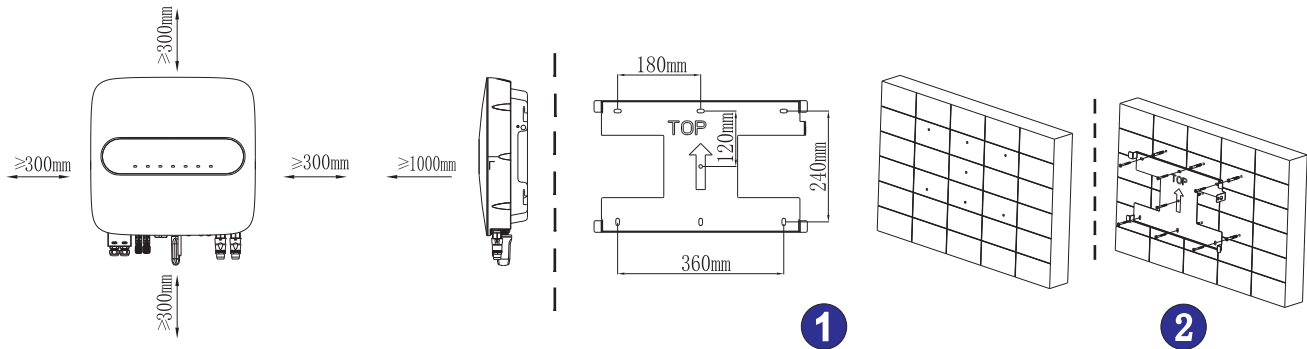


1 Packing List



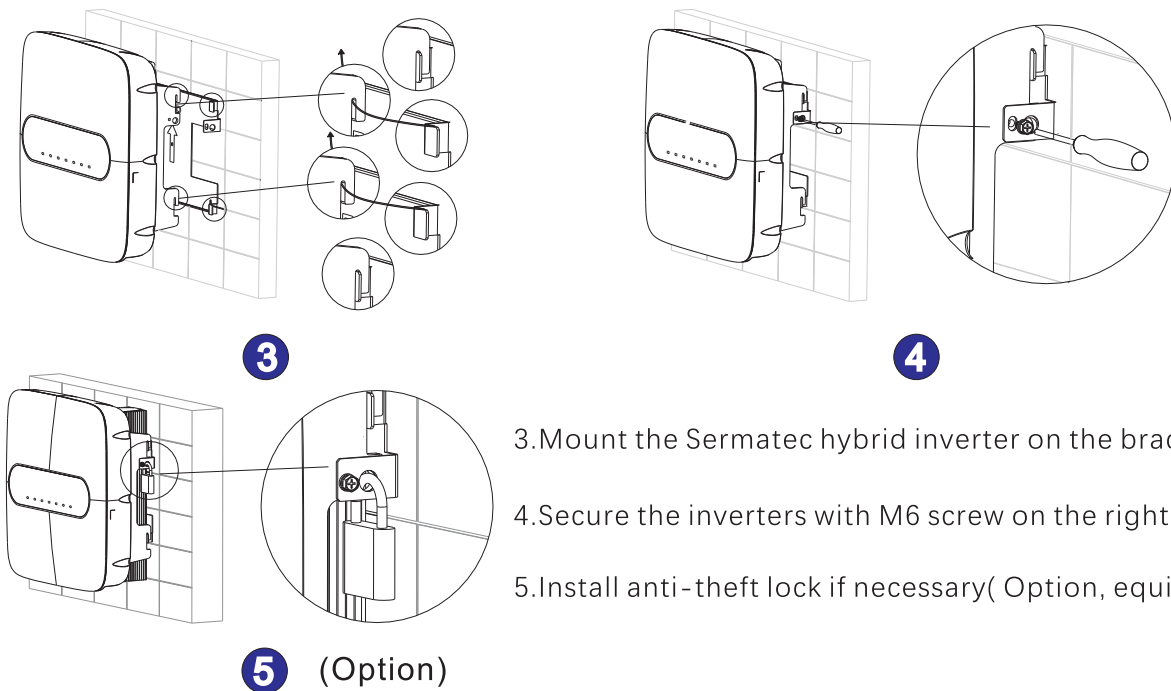
2 Mounting Steps

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.

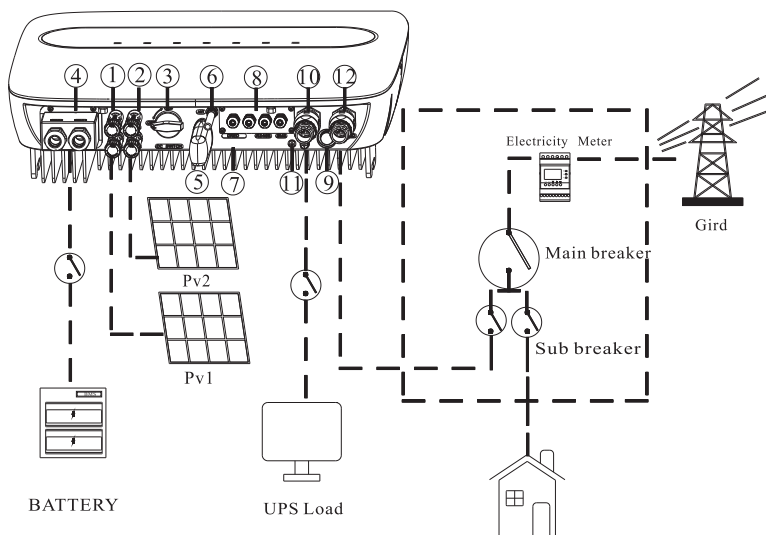


3. Mount the Sermatec hybrid inverter on the bracket.

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

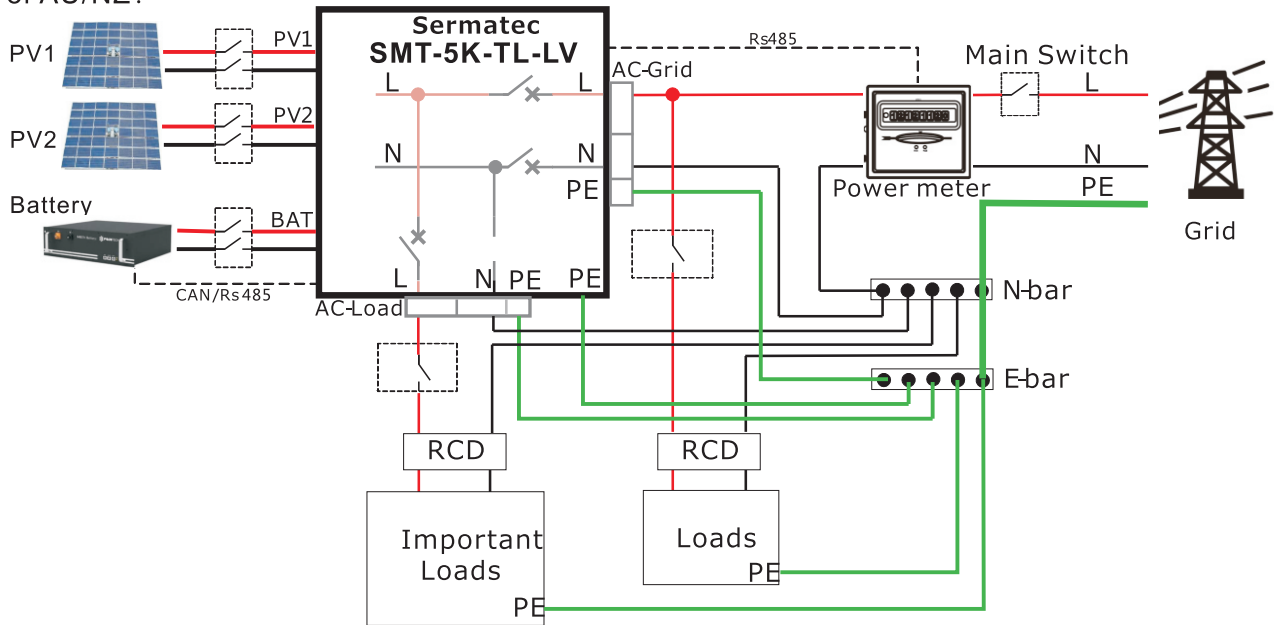
9. Waterproof vent valve

10. AC Load Connector

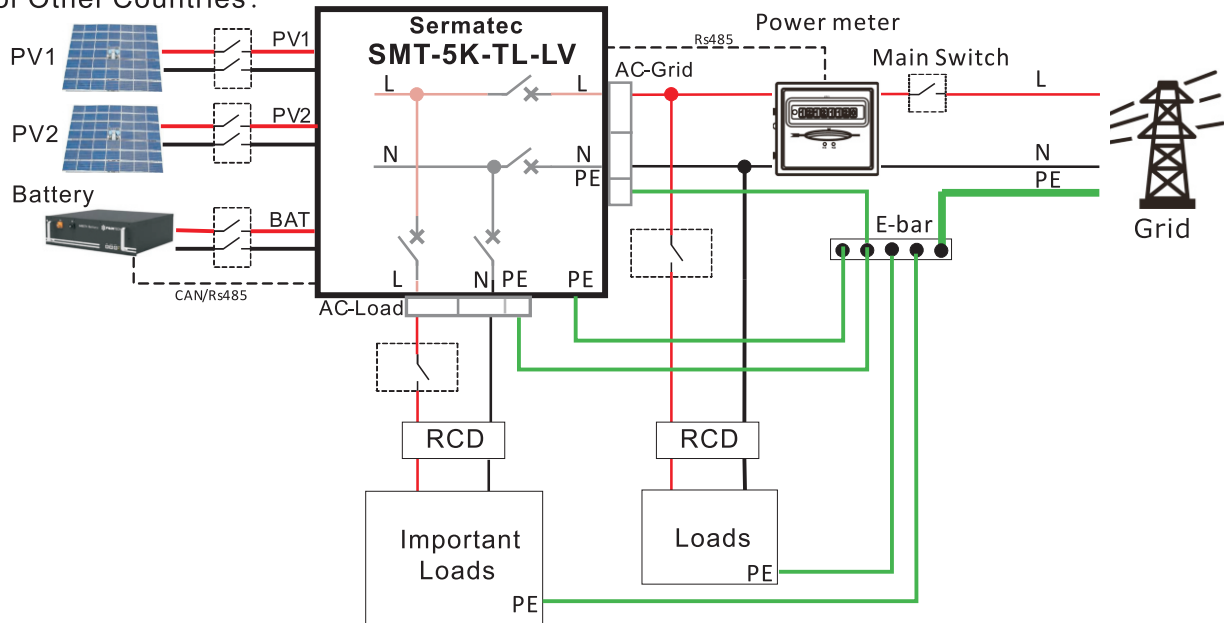
11. PE Connection Point

12. AC Grid Connector

For AU/NZ:

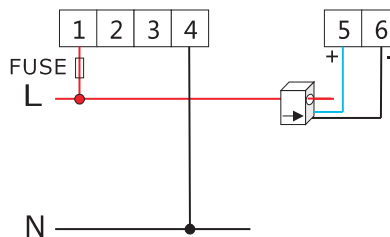


For Other Countries:



Recommended DC Switch		
	PV (option)	Battery (option)
Rated Voltage	$\geq 580\text{VDC}$	$\geq 58\text{VDC}$
Rated Current	11A	125A
Recommended AC Switch		
	AC Load	AC Grid
Rated Voltage	$\geq 250\text{VAC}$	$\geq 250\text{VAC}$
Rated Current	25A	25A

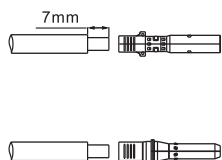
The Acrel connection diagram



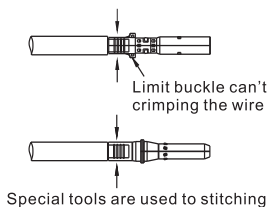
4 PV and Battery Connection

PV Connectionsteps:

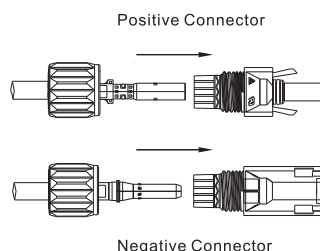
PV cable size: 4~6mm²



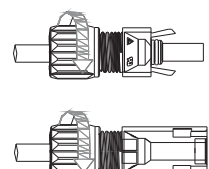
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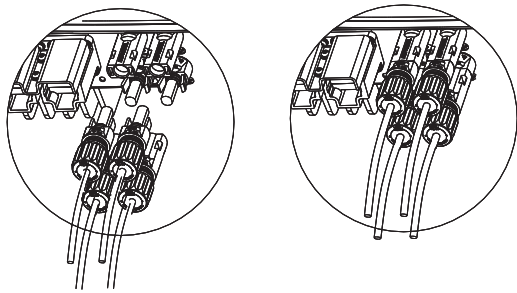
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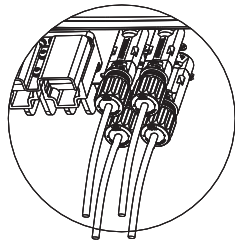
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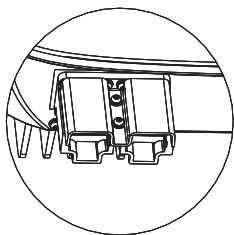
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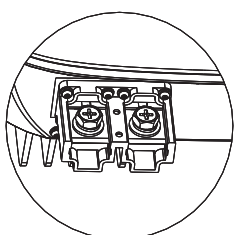
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Battery Connection steps:

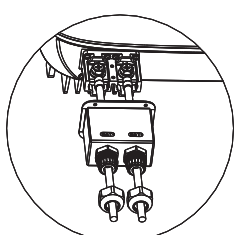
Battery cable size: 16-25mm²



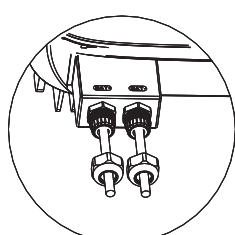
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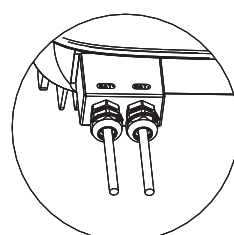
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3



4



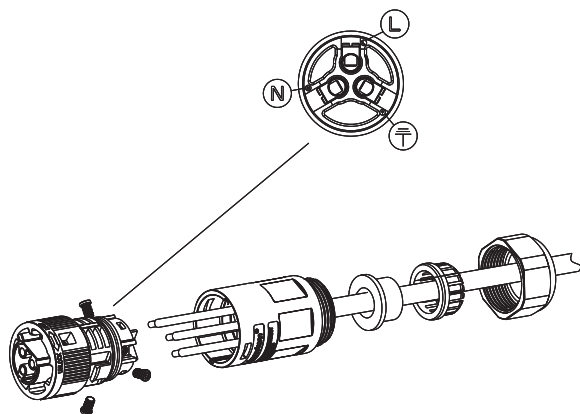
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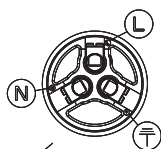
5 AC and Earth Connection

AC Connection steps:

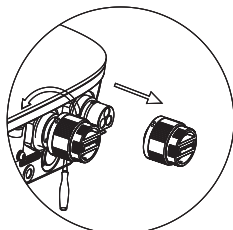
AC cable size: 6mm²



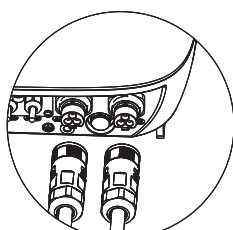
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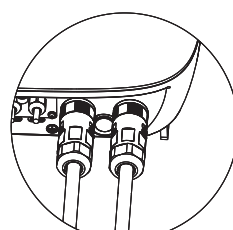
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3



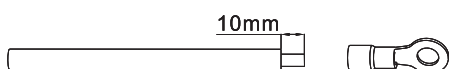
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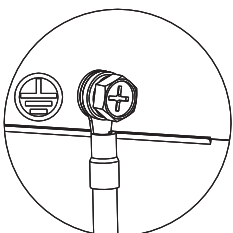
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Earth connection steps:

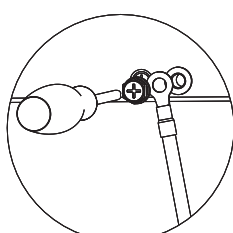
PE cable size: 4~6mm²



1

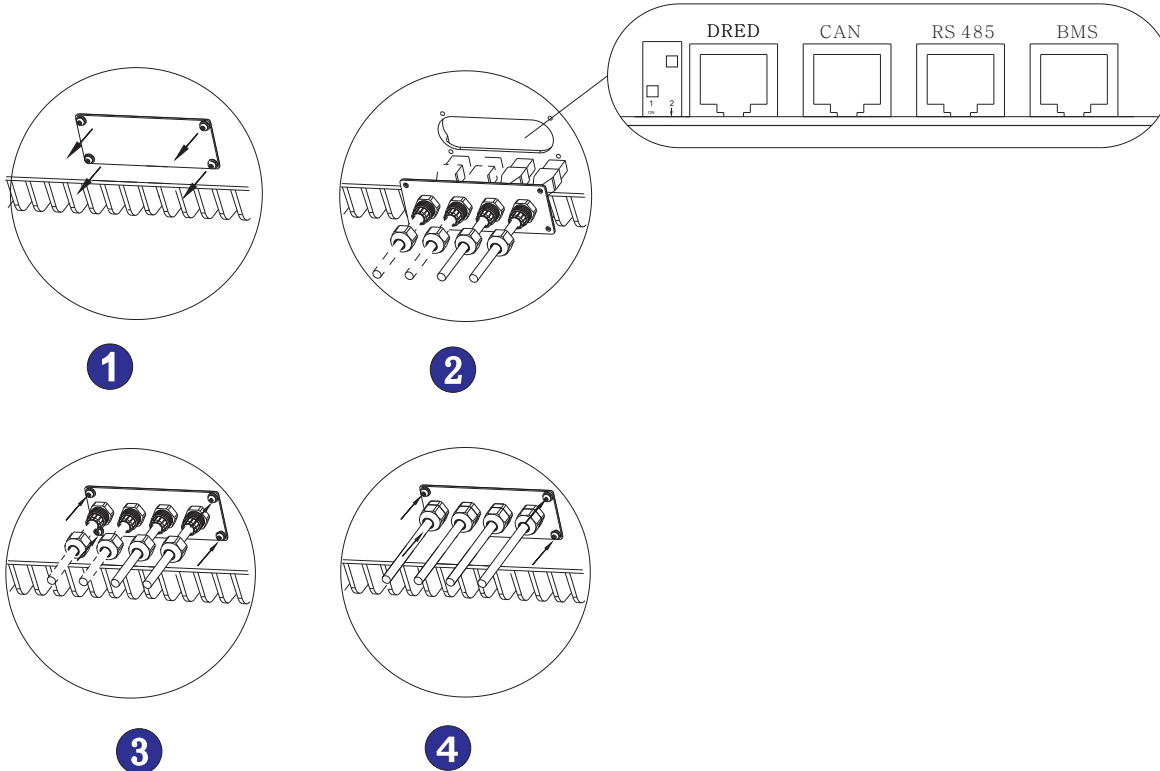


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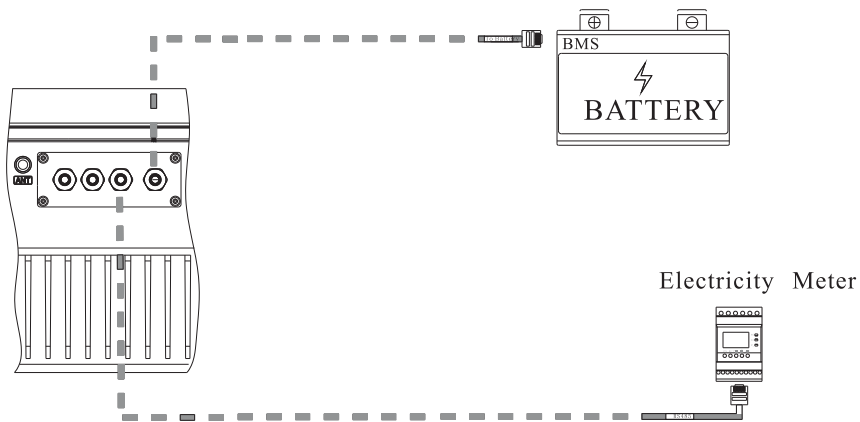


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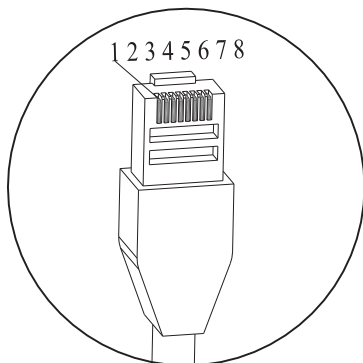
Communication connection steps:



Communication cable connection diagram



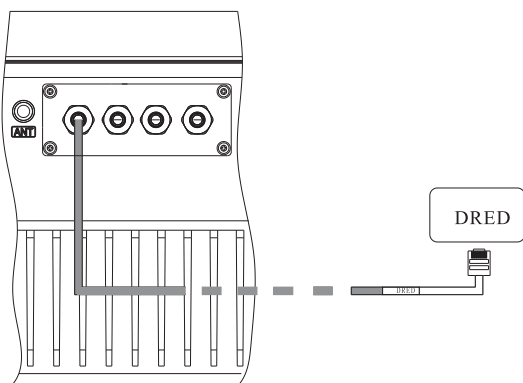
The RJ45 socket pin assignments for BMS and RS485 as follows:



RS485		
PIN	Signal Name	Cable Color
1	NC	Orange-white
2	NC	Orange
3	COM	Green-white
4	CAN_H	Blue
5	CAN_L	Blue-white
6	COM	Green
7	485A_B	Brown-white
8	485A_A	Brown

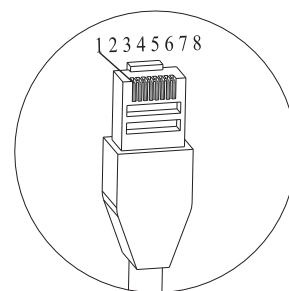
BMS		
PIN	Signal Name	Cable Color
1	485A_B	Orange-white
2	485A_A	Orange
3	COM	Green-white
4	CAN_H	Blue
5	CAN_L	Blue-white
6	COM	Green
7	485A_A	Brown-white
8	485A_B	Brown

DRED cable connection diagram:



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

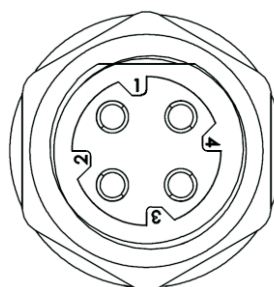
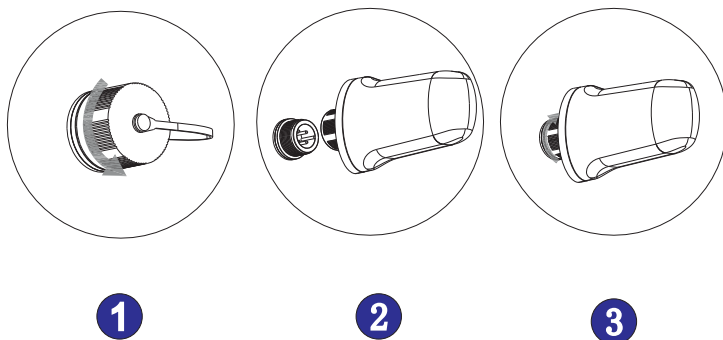
DRED		
PIN	Signal Name	Cable Color
1	DRM 1/5	Orange-white
2	DRM 2/6	Orange
3	DRM 3/7	Green-white
4	DRM 4/8	Blue
5	RefGen	Blue-white
6	Com/DRM0	Green
7	N/A	Brown-white
8	N/A	Brown



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

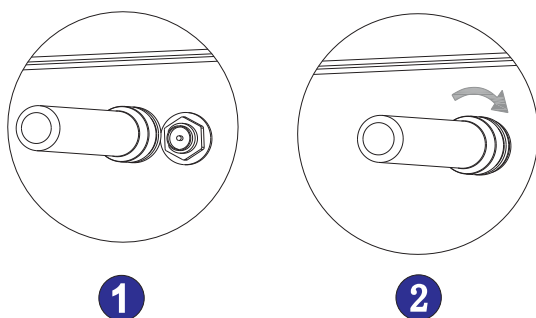
GPRS Module Connection steps(Optional):

The GPRS socket pin assignments as follows:



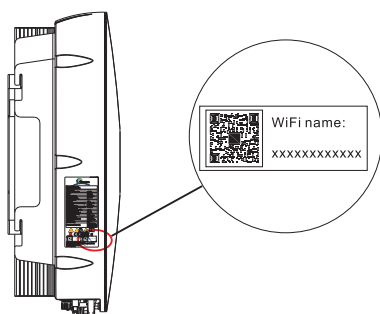
GPRS	
PIN	Signal Name
1	VCC
2	GND
3	485A
4	485B

Wi-Fi Antenna Connection steps:



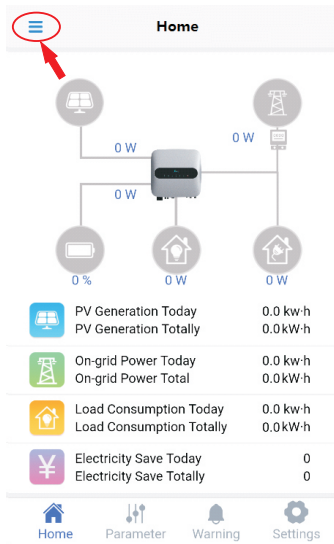
8 APP starting up guide

Connect to internal Wi-Fi:

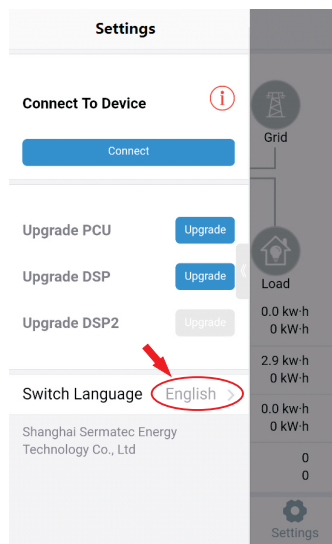


1. Find Wi-Fi name from the label on the inverters, and connect to Wi-Fi by initial password "gsstes123456".

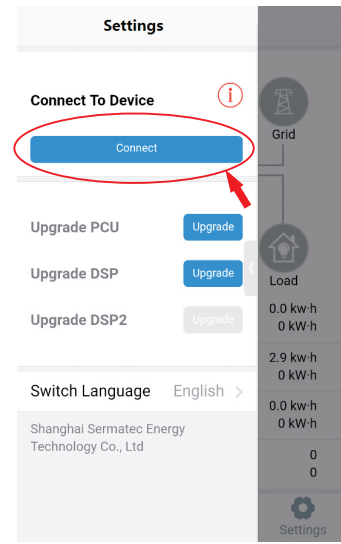
2. Enter APP main page



3. Language Setting

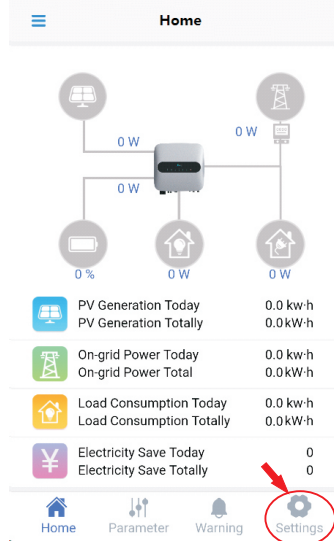


4. Connect to Device



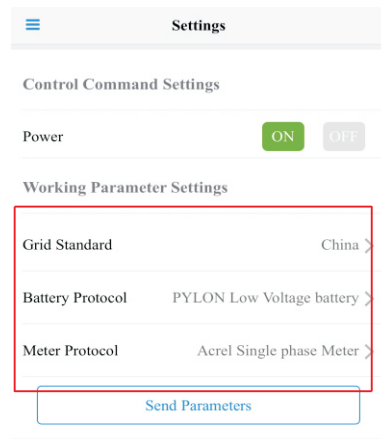
Setup systemrunning parameters:

1. Enter the setting page



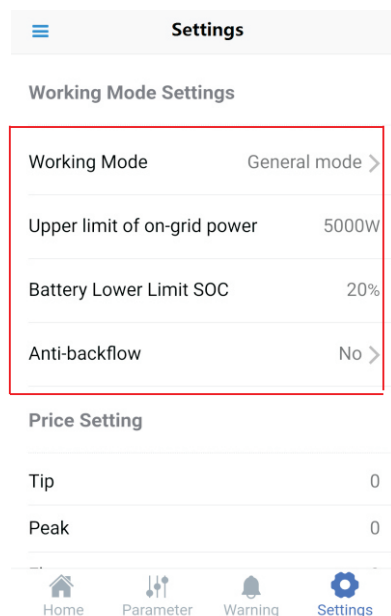
2. Working Parameter Settings

- a. Setting “Grid Standard”
- b. Setting “Battery protocol”
- c. Setting “Meter protocol”

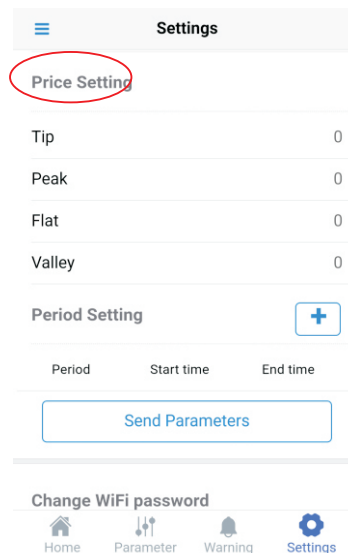


3. Working Mode Settings

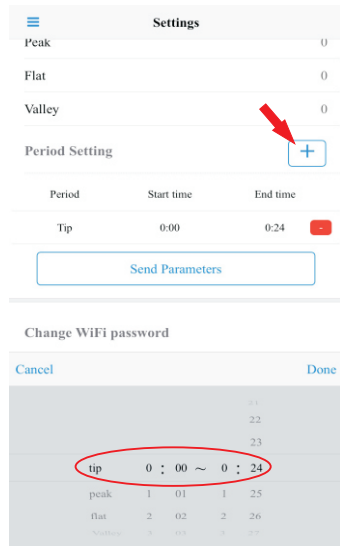
- a. Select “Working Mode”
- b. Select “On-grid power”
- c. “Battery Lower Limit SOC” setting
- d. Select “Anti-backflow”



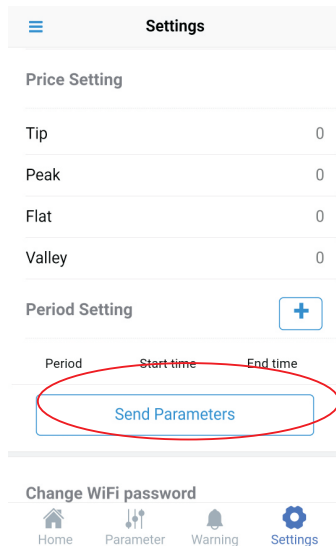
4. price setting



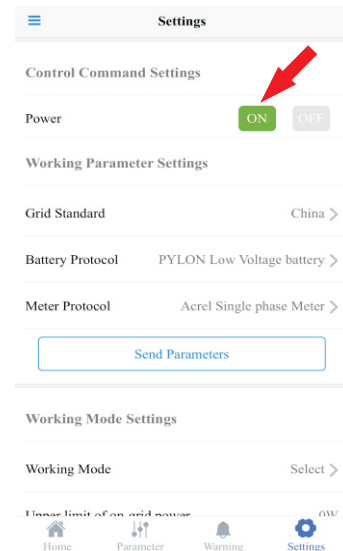
5.period setting



Tap "Send Parameters" to finish setting



Send command of starting up: Tap "ON" to send command



Working Mode:

Parameter	Comment	
WorkingMode	GeneralMode	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.
	BatteryMode	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.
	Micro-grid 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.
	Custom Mode	In the valley level, the grid and PV charge the batteries. In the Flat level, when the PV is sufficient, the battery can be charged. In the tip and peak level, the battery discharges supply the load.



SHANGHAI SERMATEC ENERGY TECHNOLOGY CO., LTD

Tel:021-69986891

Fax:021-69986096

Web:www.sermatec.com.cn

Mail:sales@sermatec.com.cn

Add:No.3939,Jiasong North Road, Jiading District, Shanghai, China