



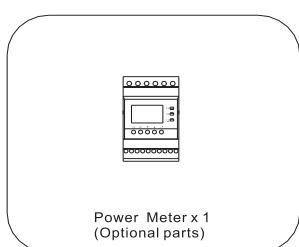
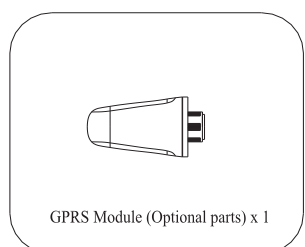
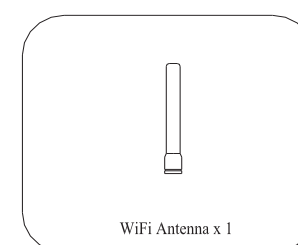
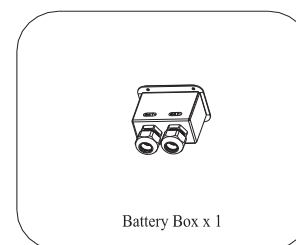
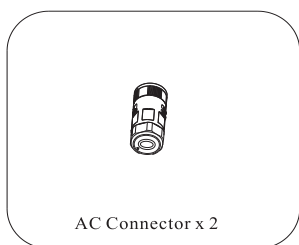
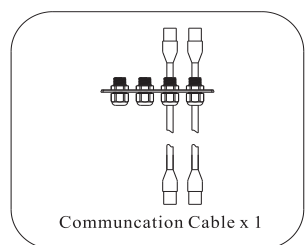
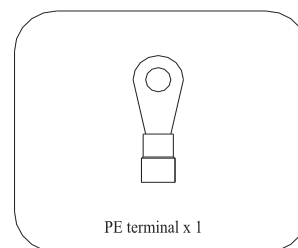
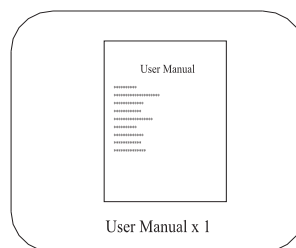
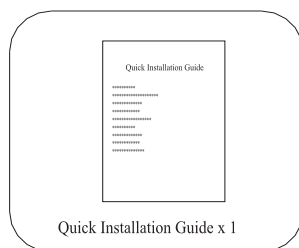
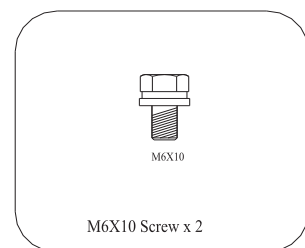
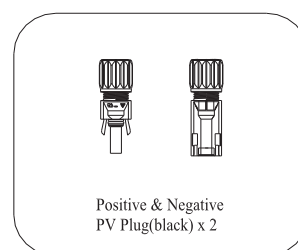
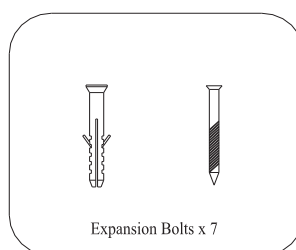
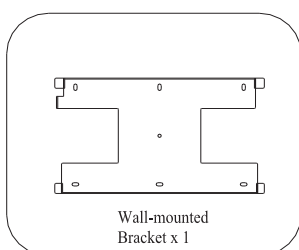
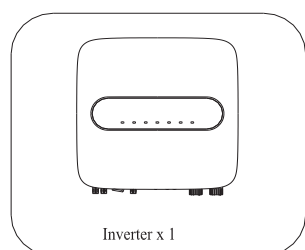
Quick Installation Guide

SMT-5K-TL-LV

version: A02

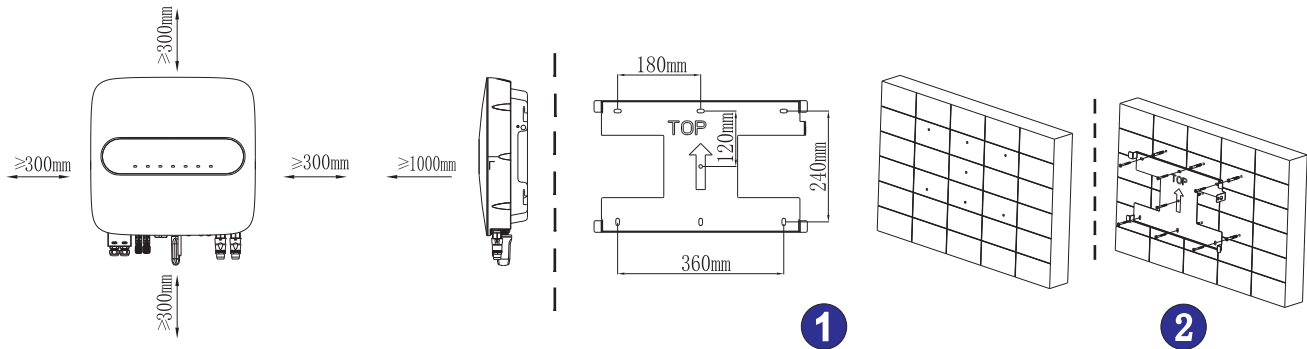


1 Packing List



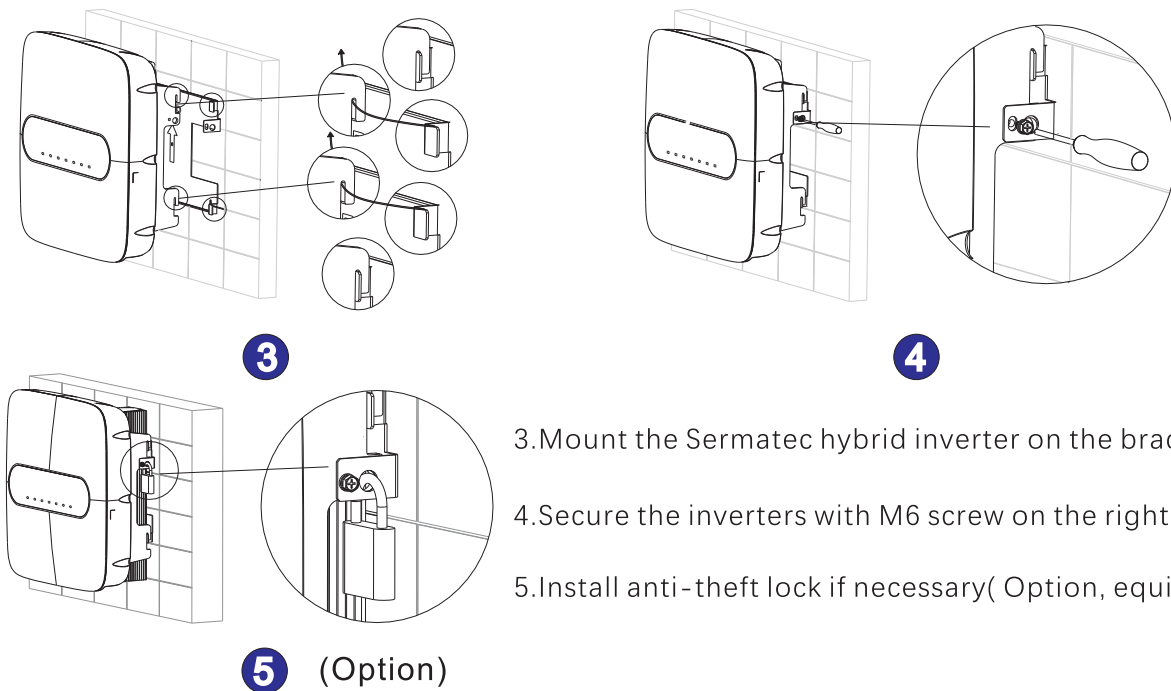
2 Mounting Steps

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.



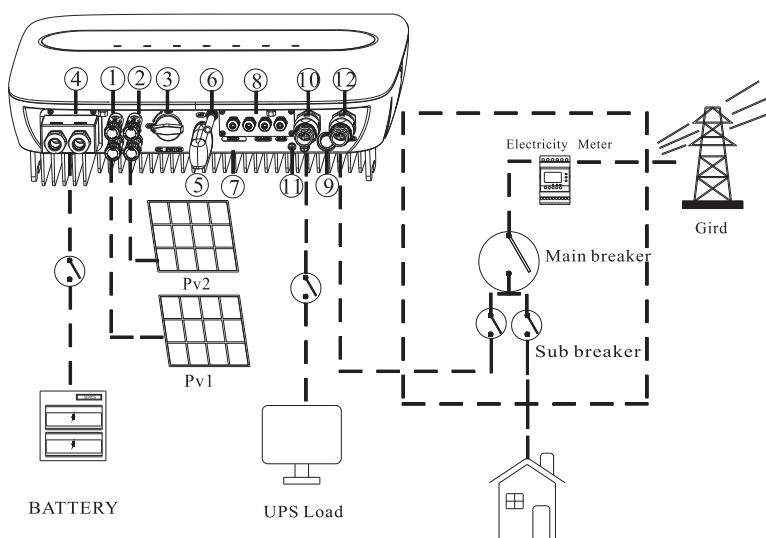
3. Mount the Sermatec hybrid inverter on the bracket.

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

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

5 (Option)

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

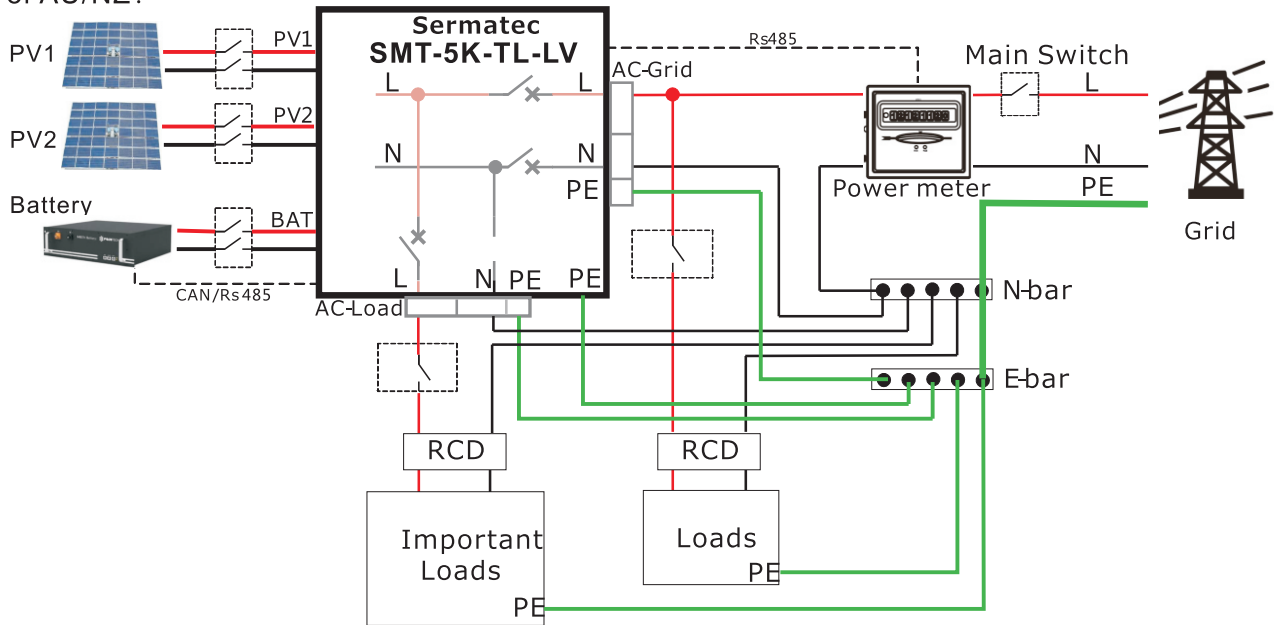
9. Waterproof vent valve

10. AC Load Connector

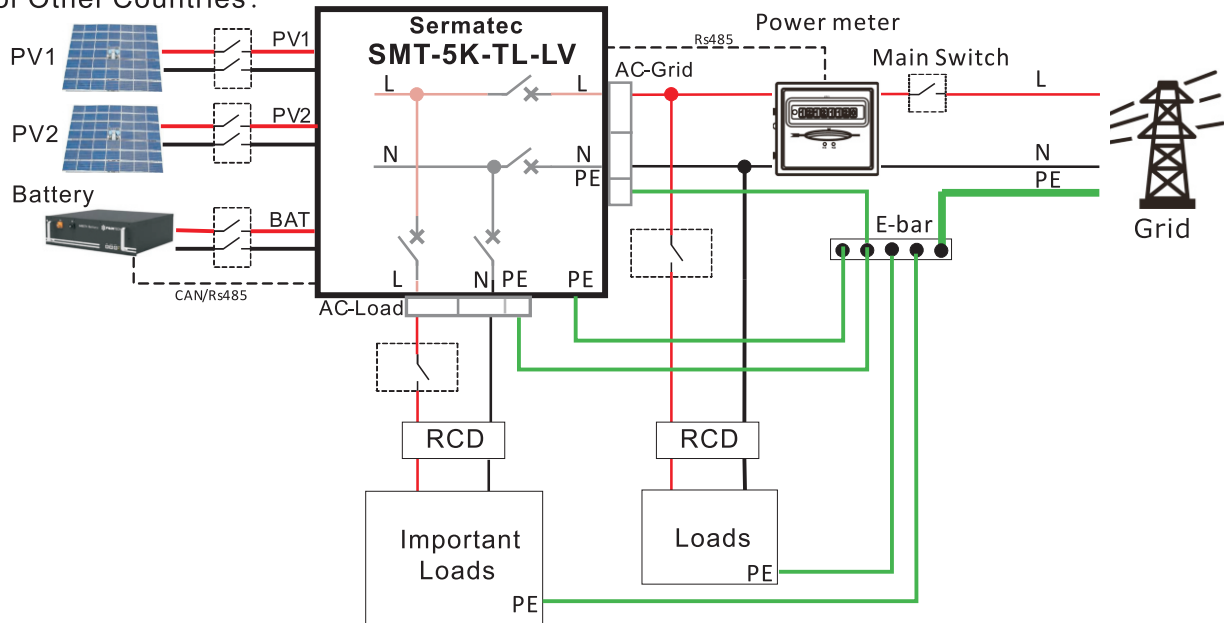
11. PE Connection Point

12. AC Grid Connector

For AU/NZ:

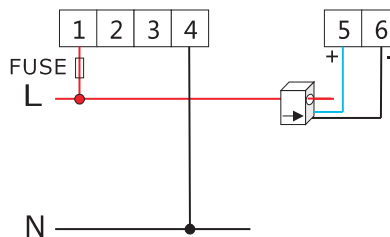


For Other Countries:



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

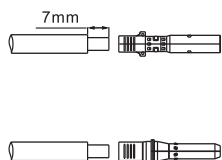
The Acrel connection diagram



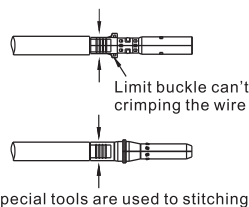
4 PV and Battery Connection

PV Connectionsteps:

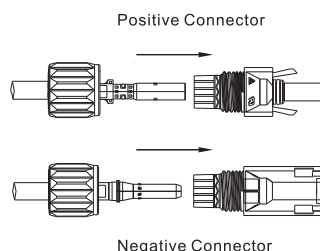
PV cable size: 4~6mm²



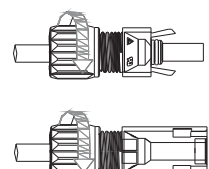
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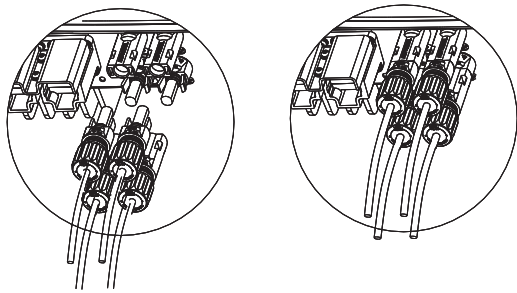
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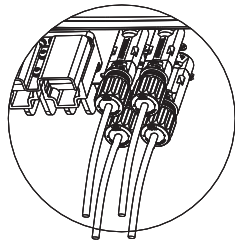
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4



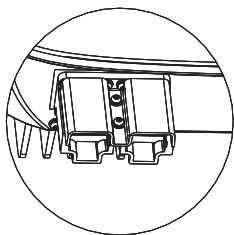
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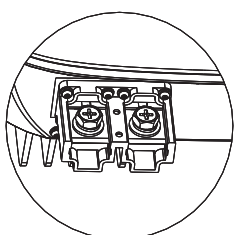
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Battery Connection steps:

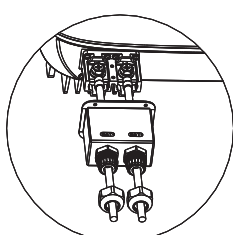
Battery cable size: 16-25mm²



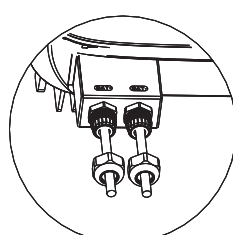
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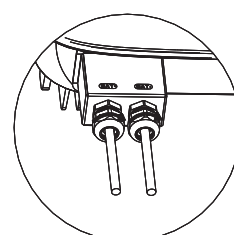
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3



4



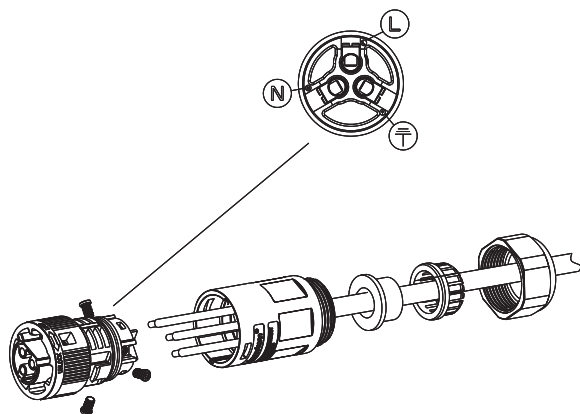
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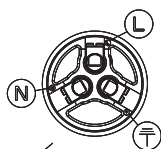
5 AC and Earth Connection

AC Connection steps:

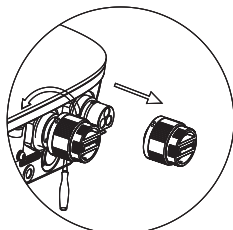
AC cable size: 6mm²



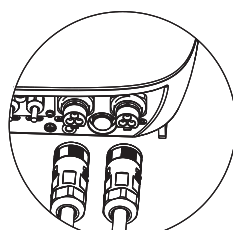
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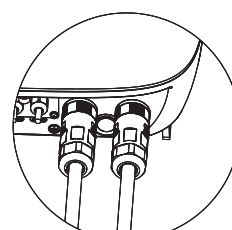
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3



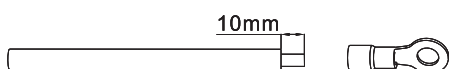
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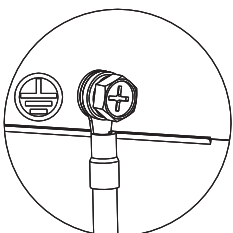
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Earth connection steps:

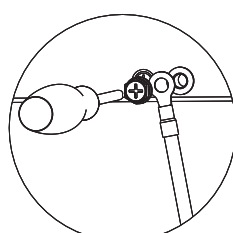
PE cable size: 4~6mm²



1

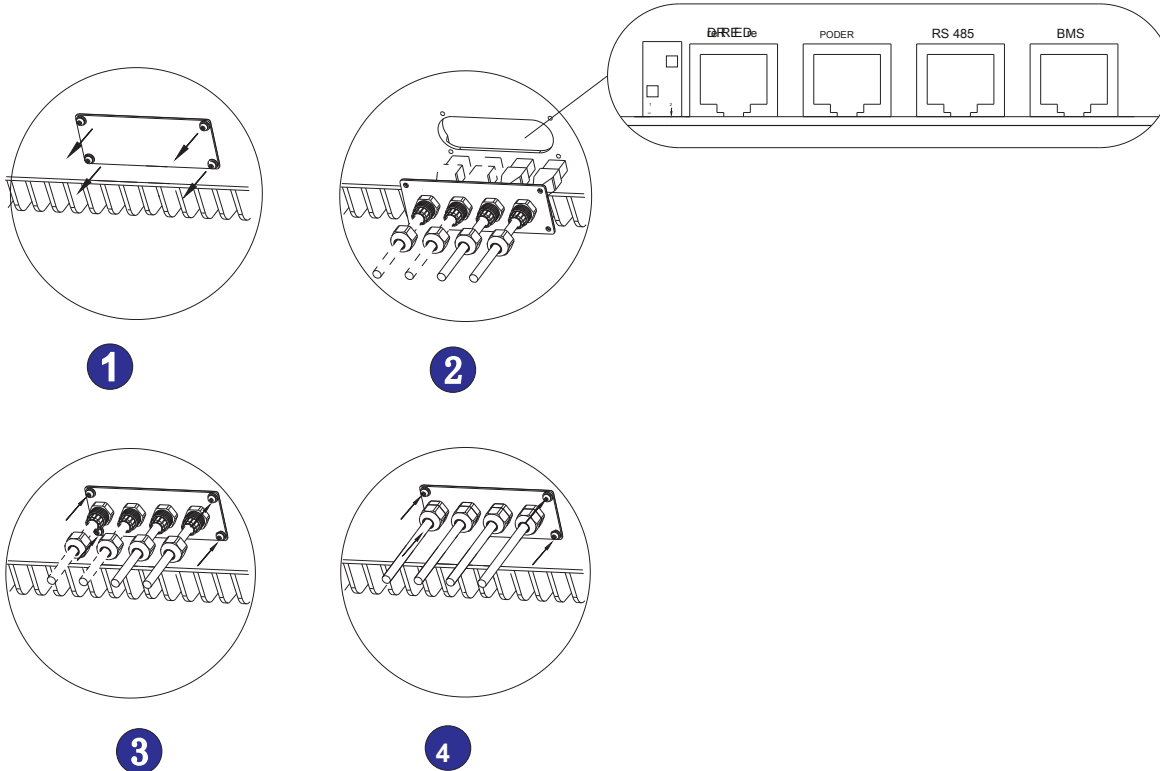


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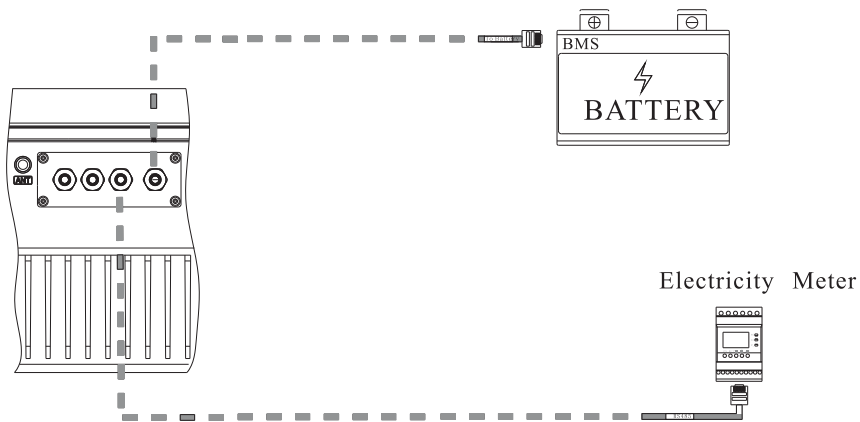


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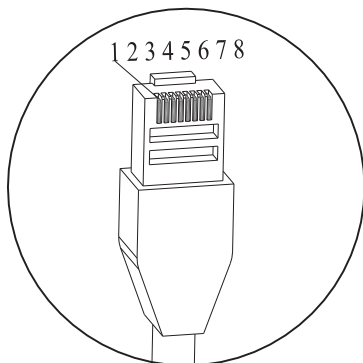
Communication connection steps:



Communication cable connection diagram



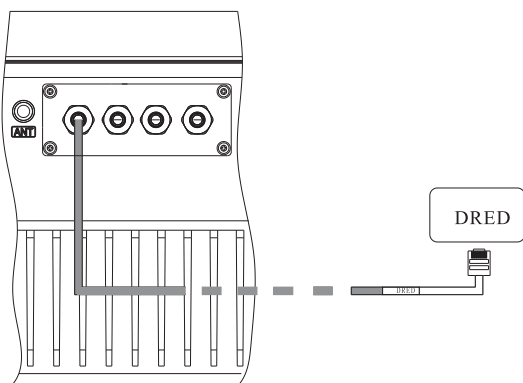
The RJ45 socket pin assignments for BMS and RS485 as follows:



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

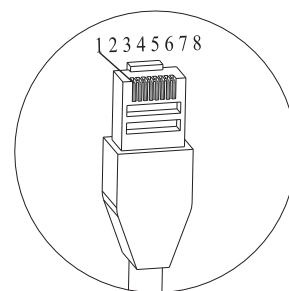
BMS		
PIN	Signal Name	Cable Color
1	485A_B	Orange-white
2	485A_A	Orange
3	COM	Green-white
4	CAN_H	Blue
5	CAN_L	Blue-white
6	COM	Green
7	485A_A	Brown-white
8	485A_B	Brown

DRED cable connection diagram:



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

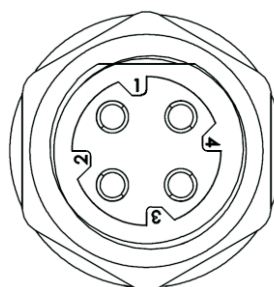
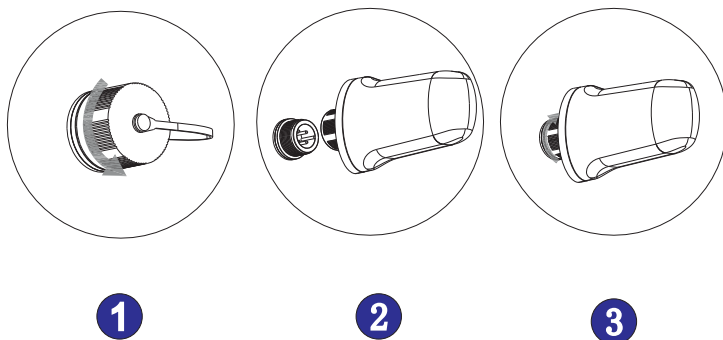
DRED		
PIN	Signal Name	Cable Color
1	DRM 1/5	Orange-white
2	DRM 2/6	Orange
3	DRM 3/7	Green-white
4	DRM 4/8	Blue
5	RefGen	Blue-white
6	Com/DRM0	Green
7	N/A	Brown-white
8	N/A	Brown



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

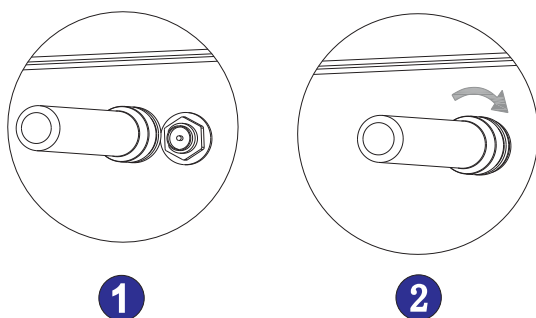
GPRS Module Connection steps(Optional):

The GPRS socket pin assignments as follows:



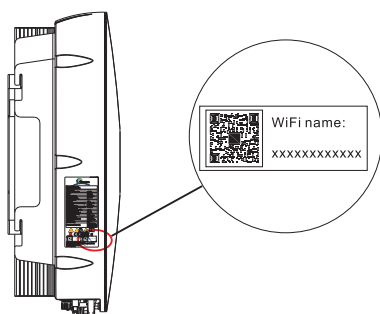
GPRS	
PIN	Signal Name
1	VCC
2	GND
3	485A
4	485B

Wi-Fi Antenna Connection steps:



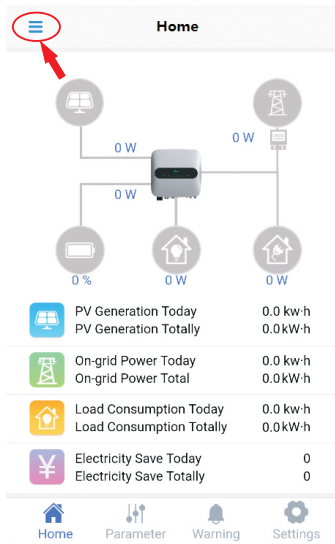
8 APP starting up guide

Connect to internal Wi-Fi:

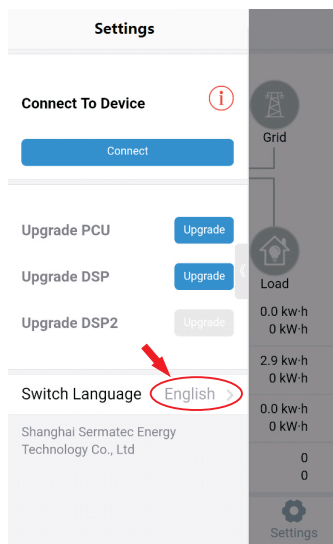


1. Find Wi-Fi name from the label on the inverters, and connect to Wi-Fi by initial password "gsstes123456".

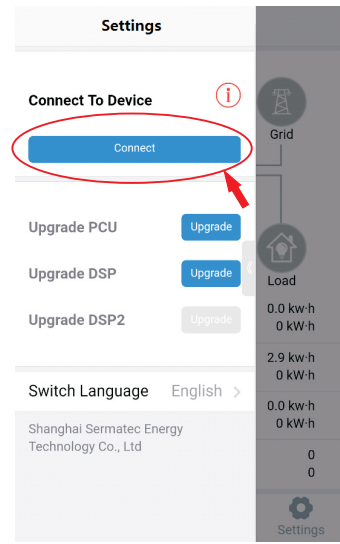
2. Enter APP main page



3. Language Setting

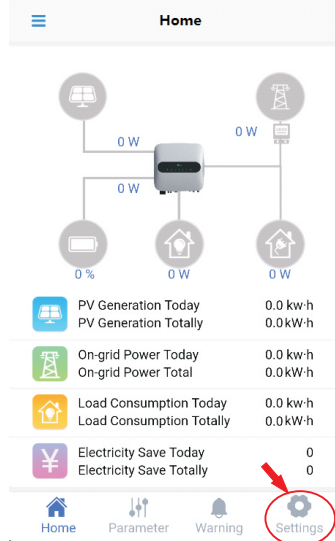


4. Connect to Device



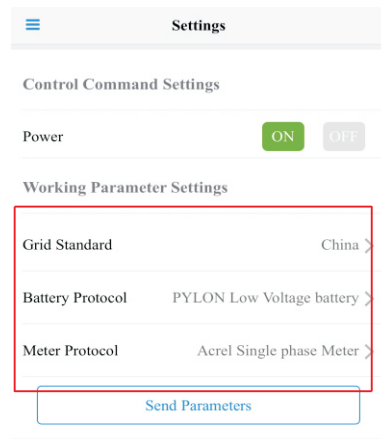
Setup systemrunning parameters:

1. Enter the setting page



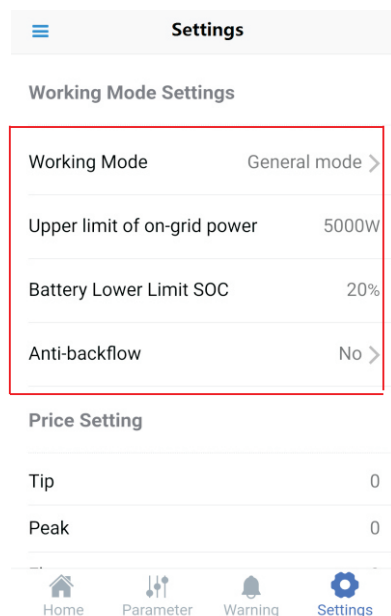
2. Working Parameter Settings

- a. un ajuste " Estándar de cuadrícula "
- b. Configurar " Protocolo de batería "
- c. Configurar " Protocolo del medidor "

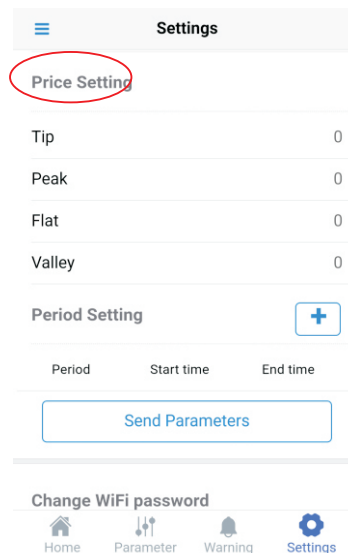


3. Working Mode Settings

- 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

Settings

Peak 0

Flat 0

Valley 0

Period Setting +

Period	Start time	End time
Tip	0:00	0:24

Send Parameters

Change WiFi password

Cancel Done

tip 0 : 00 ~ 0 : 24

peak 1 01 1 25

flat 2 02 2 26

Settings

Tap "Send Parameters" to finish setting

Settings

Price Setting

Tip 0

Peak 0

Flat 0

Valley 0

Period Setting +

Period	Start time	End time
Tip	0:00	0:24

Send Parameters

Change WiFi password

Home Parameter Warning Settings

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

Settings

Control Command Settings

Power ON OFF

Working Parameter Settings

Grid Standard China >

Battery Protocol PYLON Low Voltage battery >

Meter Protocol Acrel Single phase Meter >

Send Parameters

Working Mode Settings

Working Mode Select >

Lower limit of on-grid power

Home Parameter Warning Settings

Working Mode:

Parámetro	Comentario	
Modo de trabajo	GeneralMode	<p>Autoconsumo</p> <p>Si la energía fotovoltaica es suficiente, la energía fotovoltaica suministra energía a la prioridad de carga, luego carga la batería y la alimenta a la red con energía excedente.</p> <p>Cuando la energía fotovoltaica es insuficiente, la red y las baterías suministran energía a la carga juntas. Deshabilitar por defecto el anti-reflujo.</p>
	Modo batería	<p>Batería de reserva</p> <p>La energía fotovoltaica y la red suministran energía para cargar y cargar baterías juntas. Cuando la red es normal, el SOC de la batería siempre está en estado completo, las baterías se descargan solo cuando la red es anormal.</p> <p>Activación predeterminada de anti-reflujo.</p>
	Modo de microrred	<p>Escenarios sin red</p> <p>La fotovoltaica y la batería constituyen un sistema fuera de la red.</p> <p>Si PV es suficiente, PV suministra energía a la prioridad de carga y luego carga la batería. cuando la PV es insuficiente, las baterías suministran energía a la carga.</p>
	Modo personalizado	<p>En el nivel del valle, la red y la fotovoltaica cargan las baterías.</p> <p>En el nivel Flat, cuando el PV es suficiente, se puede cargar la batería. En el nivel de punta y pico, las descargas de la batería abastecen la carga.</p>



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