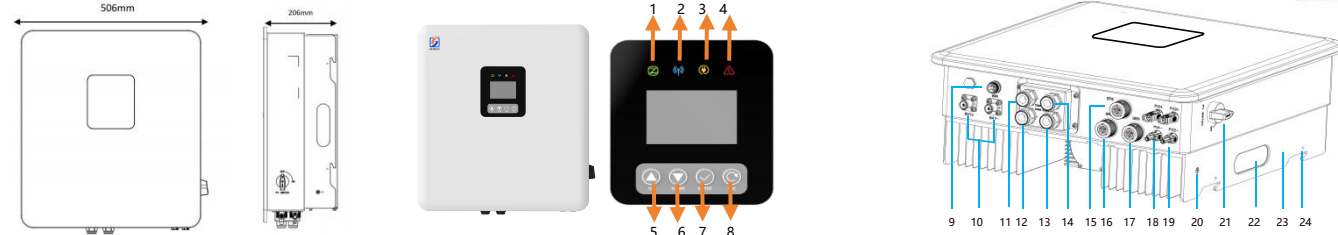


1.Overview



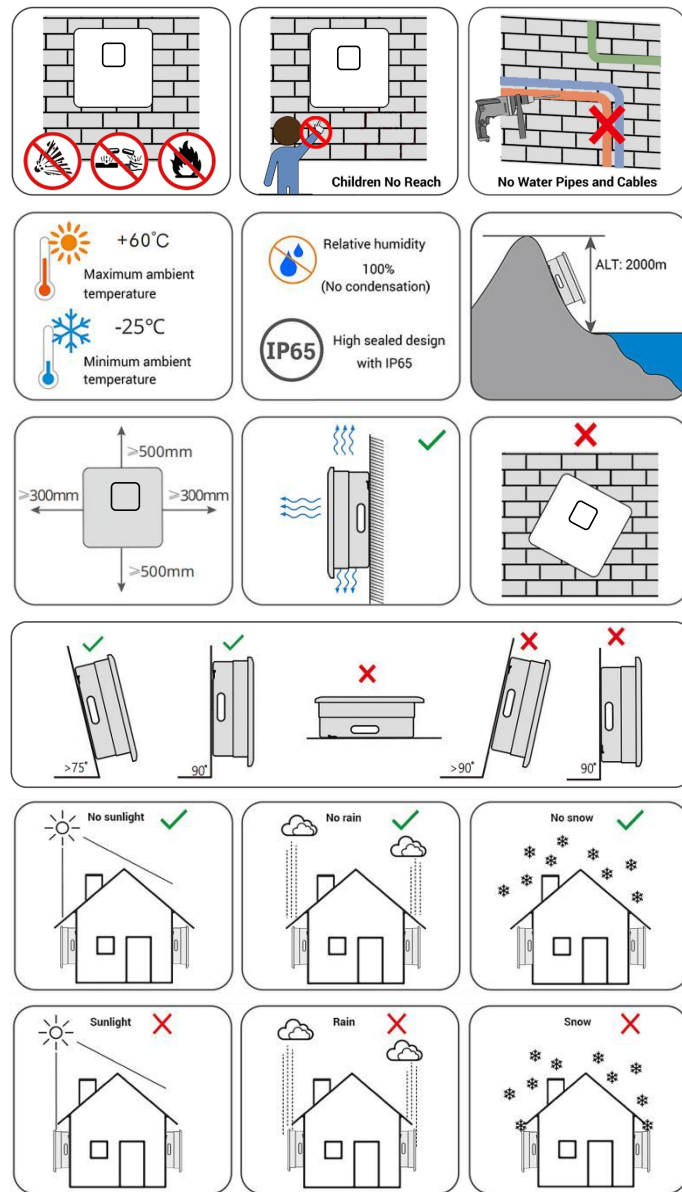
Name	NO.	Description	NO.	Description	NO.	Description
Indicator LED	1	Green : ON, The inverter is running ; Flash is Standby.	9	WiFi port	17	Generator connector
	2	Blue : ON, Communication with BMS normal.	10	Battery connector	18	PV1 connector
	3	Yellow : ON, The inverter is in EPS mode.	11	COM1: Meter, CT	19	PV2 connector
	4	Red : The inverter is in fault mode.	12	COM3: Parallel connector	20	PE port
	5	UP: To go to previous selection	13	COM4: BMS connector	21	PV switch
	6	DOWN: To go to next selection	14	COM2: DRM, Dry connector	22	Hand holder
	7	ENTER: To confirm the selection	15	EPS connector	23	Heat sink
	8	ESC: To exit setting mode	16	Grid connector	24	Lock hole

WARNING

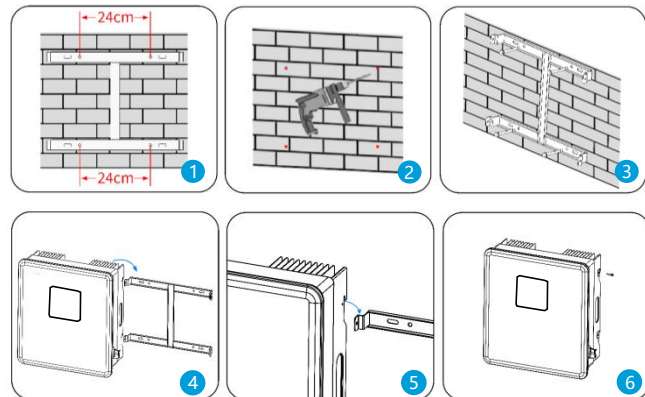
- This file will be updated from time to time due to product upgrades or other reasons. Unless otherwise agreed, this document is intended as a guide only. All information and suggestions do not constitute an express or implied warranty. The final interpretation of the content is at SOSEN.
- This document is for quick guidance installation only. For details, please refer to the User Manual.
- Any damage caused by failure to follow the content is not covered by the warranty.

2.Installation

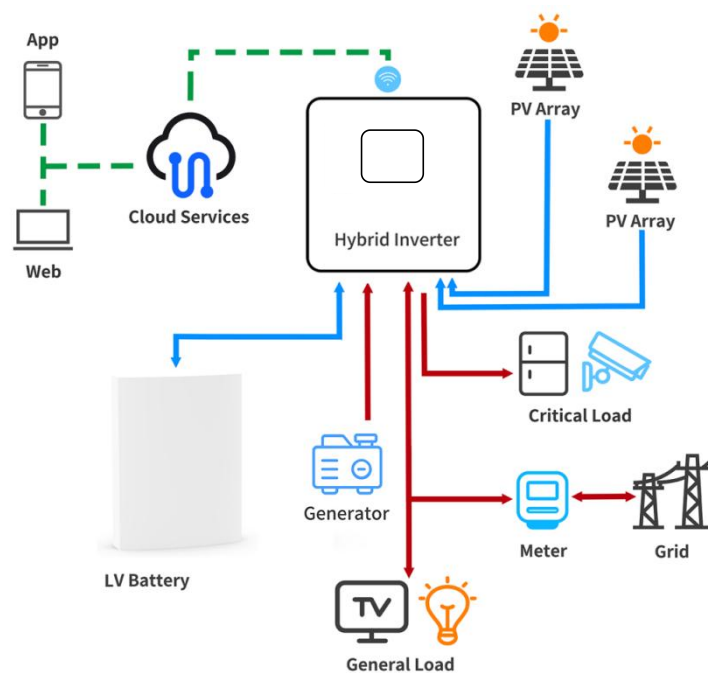
2.1 Installation Requirements



2.2 Installation Steps



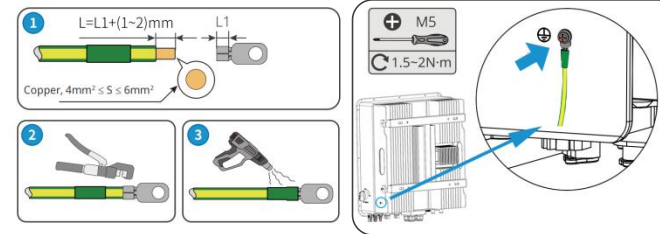
2.3 System View



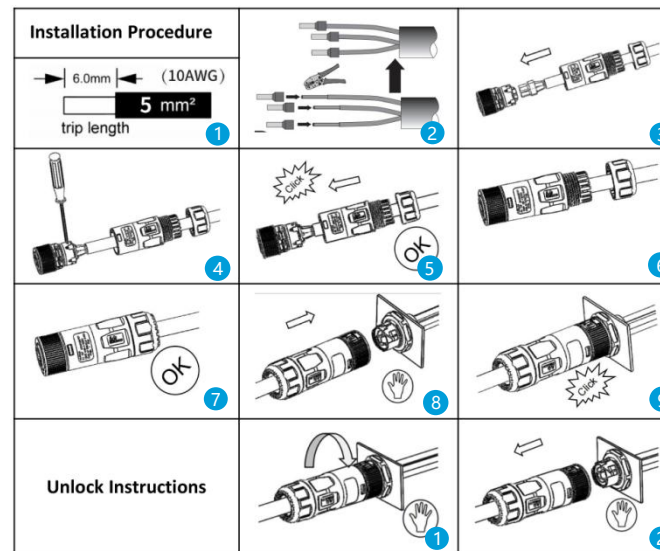
3.Connecting cables

NO.	Cable name	Type	Recommend module	WARNING
1	Grounding cable	Single multi-core yellow-green copper cable	Cable diameter ≥ 10AWG	- Lithium battery has its own power line and communication line. so use them. - Hybrid inverter include the basic communication line. So use them directly. - Please make sure all the switches OFF before connection. For your safety. Please do not operation when power on.
2	AC output cable	Two or three different color multi-core copper cables	Cable diameter ≥ 10AWG	
3	PV input cable	Photovoltaic dedicated cable (such as PV1-F)	4mm²-6mm²	
4	Battery cable	Red and black multi-core copper	Cable diameter ≥ 4AWG	
5	Communication cable	CAT5E	/	

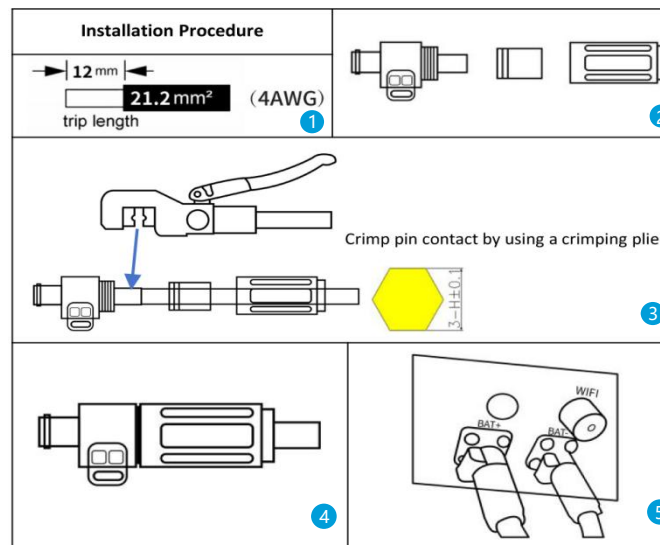
3.1 Grounding



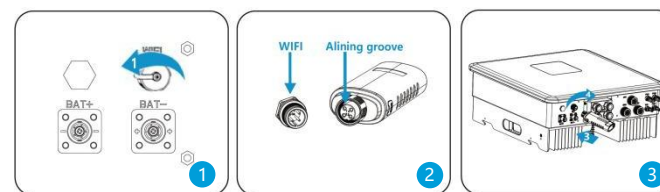
3.2 GRID, EPS and GEN Wiring



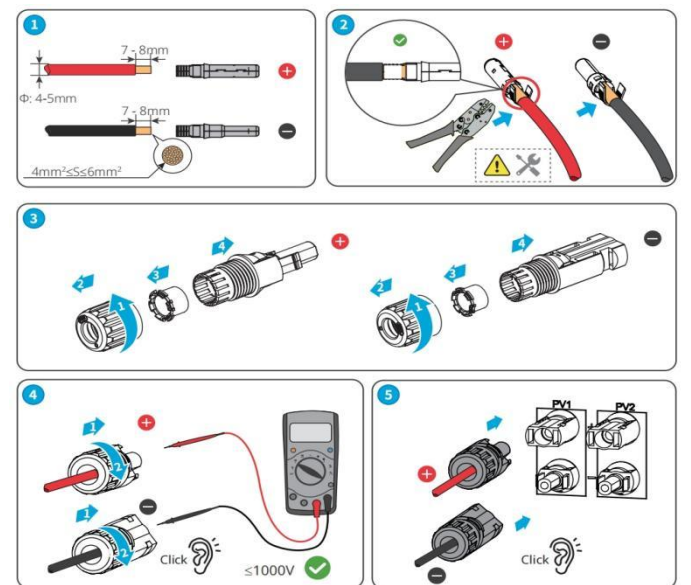
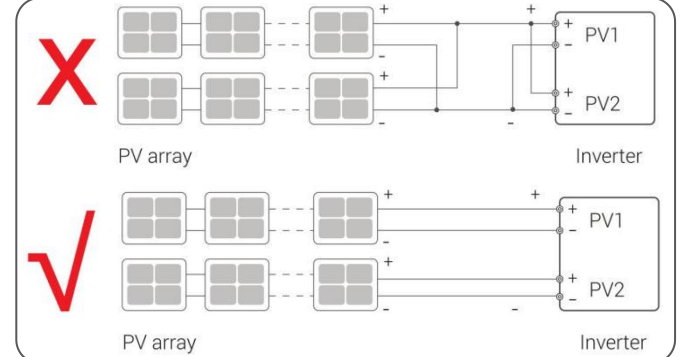
3.4 Battery Wiring



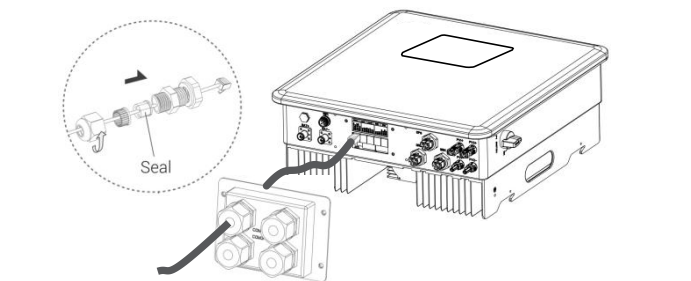
3.5 Communication Stick Installation



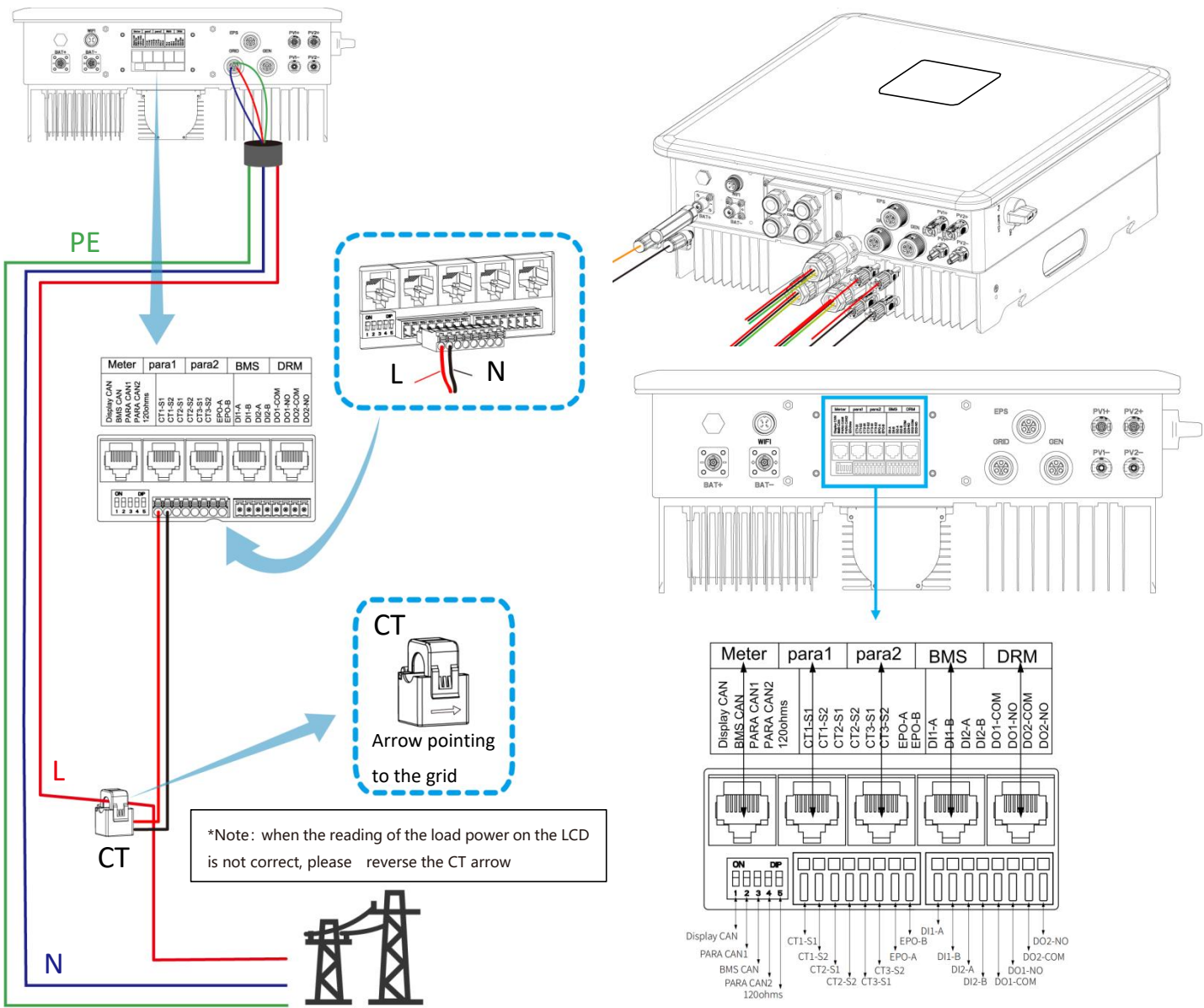
3.3 PV Wiring



3.6. Communication

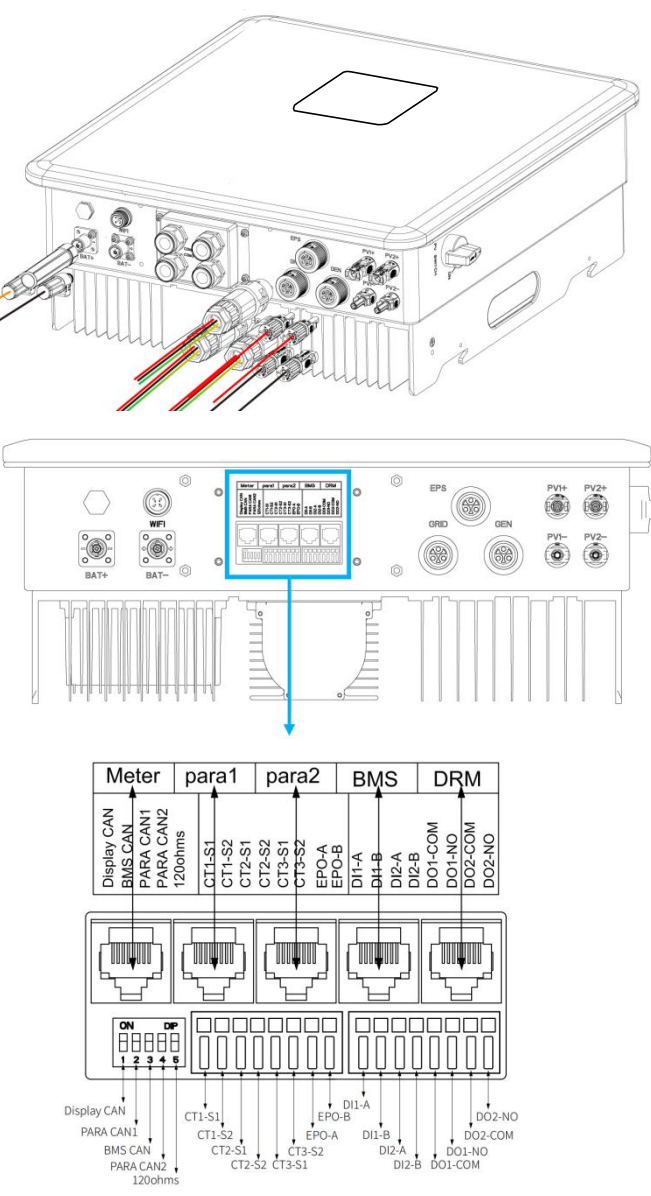


PIN	Meter	BMS RJ45	PARA1/2	DRM	RJ45terminal
1	Meter RS485A	Lead-acid cell NTC	Para Display CAN_H	DRM1/5	
2	Meter RS485B	GND	Para Display CAN_L	DRM2/6	
3	/	/	/	DRM3/7	
4	5V_VCC	BMS_CAN1_H	Para Power CAN1_H	DRM4/8	
5	FR_ALM_IN	BMS_CAN1_L	Para Power CAN1_L	REFGEN	
6	5V_GND	GND	/	COM/DRM0	
7	AFCI_485A	BMS_485A	Para Power CAN2_H	+12VS	
8	AFCI_485B	BMS_485B	Para Power CAN2_L	GND	



3.8 Communication Stick Indication

LSW-5		
Lights	Implication	Status Description
	Communication with router	1.Light keeps on: Connection to the server succeeded. 2.Light off: Connection to the router failed. 3.Slow flash(On 1s/Off 1s): Connection to the router succeeded. 4.Fast flash(On 100ms/Off 100ms): Distributing network fast.
	Communication with inverter	1.Light keeps on: Logger connected to the inverter. 2.Light off: Connection to the inverter failed. 3.Slow flash(On 1s/Off 1s): Communicating with inverter.
	Logger running status	1.Light off: Running abnormally. 2.Slow flash(On 1s/Off 1s): Running normally. 3.Fast flash(On 100ms/Off 100ms): Restore factory settings.



LS4G-6-G		
Lights	Implication	Status Description
	Logger running status	1.Off/Steady on: Running abnormally 2.Slow flash(On 1s/Off 1s): Running normally
	Communication with inverter	1.Light keeps on: Logger connected to the inverter. 2.Light off: Connection to the inverter failed. 3.Slow flash(On 1s/Off 1s): Communicating with inverter.
	Communication with router	Green-4G mode; Blue-WiFi mode 1.Light keeps on: Connection to the server succeeded. 2.Slow flash(On 1s/Off 1s): Connection to router/base station succeeded. 3.Fast flash(On 500ms/Off 5s): Connection to router/base station failed.

3.7 App Installation and Web Monitor

Item	Web View	APP	
QR Code			
Website	https://home.solarmanpv.com/	iOS: Search "Solarman Smart" in Apple Store	Android: Search "Solarman Smart" in Google play

4.What is in the box?

Item	QTY	Description	Item	QTY	Description
A	1	Inverter	B	1	Bracket
C	4	PV connectors (2*positive, 2*negative)	D	4	PV connector contacts (2*positive, 2*negative)
E	4	PM5*16 fastening screws	F	2	Battery connectors (1*positive, 1*negative)
G	1	AC EPS terminal connector	H	1	AC grid terminal connector
I	1	Generator connector	J	1	Wi-Fi module
K	1	Network cable	L	3	Product documentation
M	1	CT (1000/1)	N	4	M8*80 Expansion tubes *4 & Expansion screws * 4
O	2	PM6*12 grounding screw			

5.Post-installation check

step	Acceptance Criteria	step	Acceptance Criteria
1	Hybrid inverter is installed correctly and firmly	2	All switches off
3	WiFi&BLE stick Installation is installed correctly and firmly.	4	The ground wire confirms the connection and is reliable.
5	Cable wiring is reasonable, meets the requirements, no broken skin, etc.	6	All wires are correct and securely connected.
7	Cable tie port trimming, no sharp corners, etc.	8	All exposed terminals are well protected, no vacant ports.
9	Pay attention to packing all the residual materials.		

6.ON/OFF Hybrid Inverter

NOTICE

Before power on, please make sure all of the voltage and current are in the range of specification of hybrid inverter. Otherwise it will be damage to hybrid inverter.

Follow are the steps of turn on actions:

- 1.Turn on PV switch.
- 2.Turn on the switch between Grid and hybrid inverter.
- 3.Turn on the switch between battery and hybrid inverter and wake up battery.
- 4.If need to setup hybrid inverter. Please turn to user manual of hybrid inverter for detail description.
- 5.The shutdown steps are opposite to the above order.