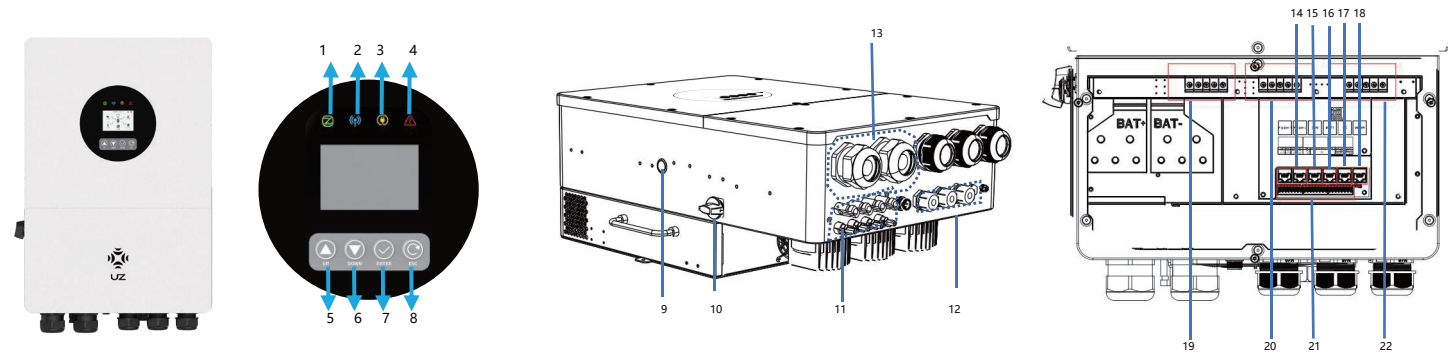


SSL-8K-24K-P3EU Quick Start

1. Overview



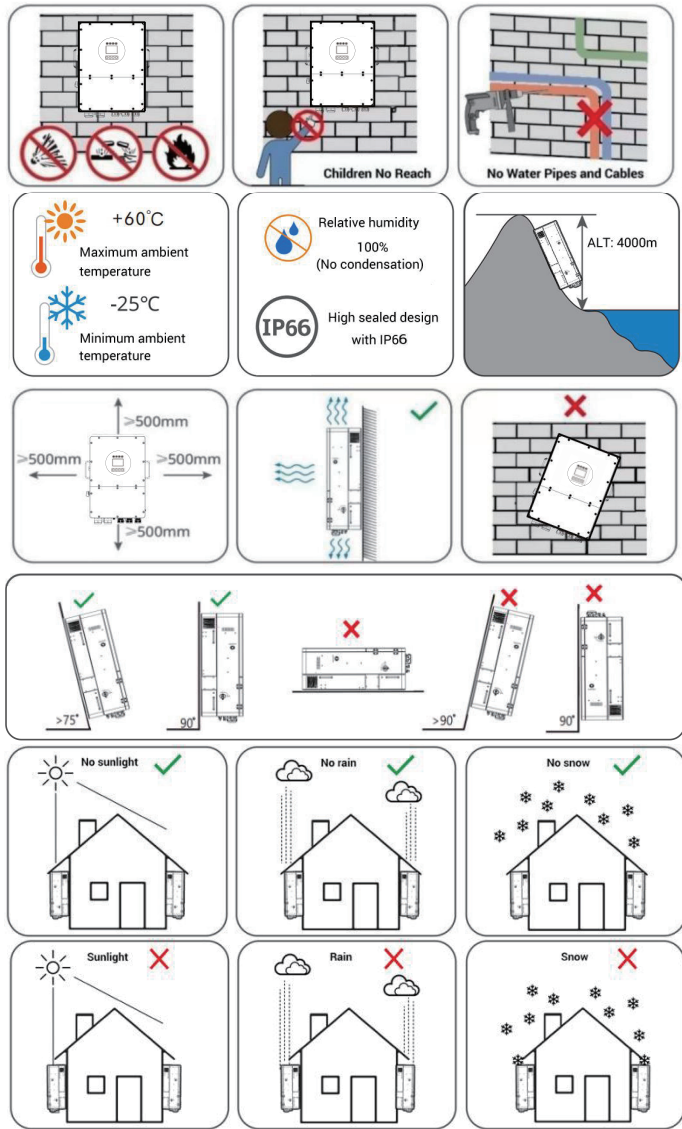
Name	NO.	Description	NO.	Description	NO.	Description
Indicator LED	1	Green : ON, The inverter is running ; Flash is Standby.	9	Power on/off button (Press-ON,Press Back-OFF)	17	BMS2 port(Silkscreen reserved, do not connect)
	2	Blue : ON, Communication with BMS normal.	10	PV switch	18	Meter port
	3	Yellow : ON, The inverter is in EPS mode.	11	PV connector	19	Generator input
	4	Red : The inverter is in fault mode.	12	Comm port	20	Load
	5	UP:To go to previous selection	13	Battery port	21	Function port
	6	DOWN:To go to next selection	14	Parallel port	22	Grid
	7	ENTER:To confirm the selection	15	DRM port		
	8	ESC:To exit setting mode	16	BMS1 port		

WARNING

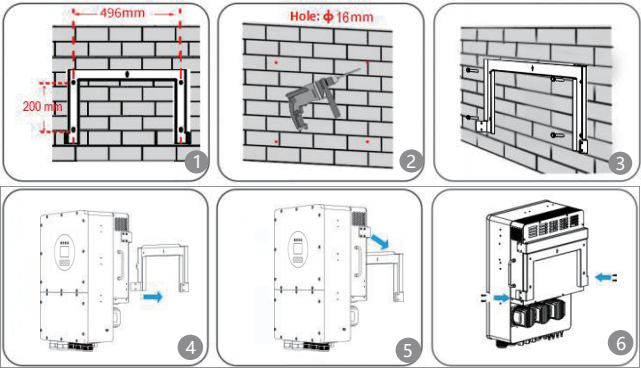
- 1.This file will be updated from time to time due to product upgrades or other reasons. Unless otherwise agreed, this document is intended as a guide only. All information and suggestions do not constitute an express or implied warranty. We reserve the final right of interpretation.
2. This document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

2. Installation

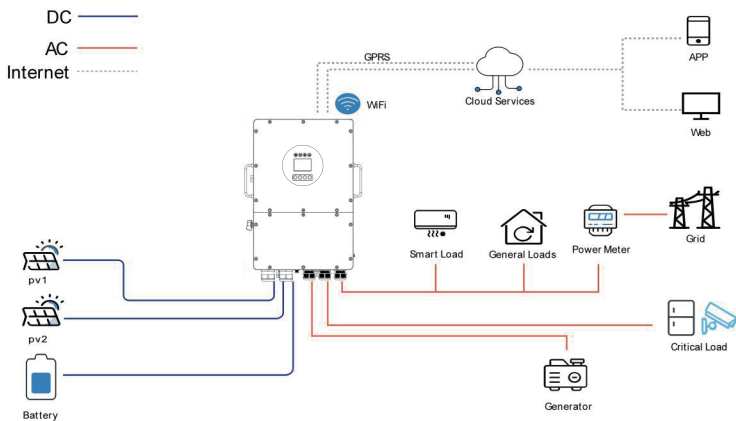
2.1 Installation Requirements



2.2 Installation Steps



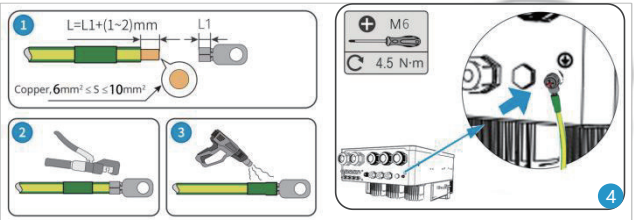
2.3 System View



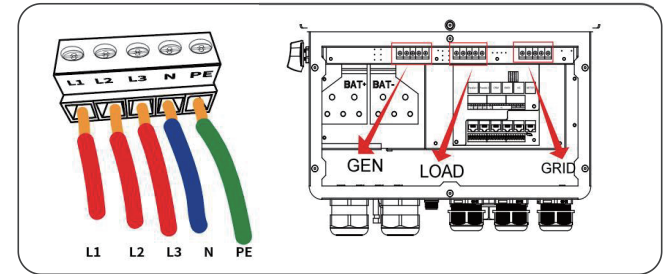
3. Connecting cables

NO.	Cable name	Type	Recommend module	WARNING
1	Grounding cable	Single multi-core yellow-green copper cable	6mm ² -10mm ²	1.Lithium battery has its own power line and communication line. so use them. 2.Hybrid inverter include the basic communication line. So use them directly. 3.Please make sure all the switches OFF before connection. For your safety. Please do not operation when power on. 4.Please refer to the instruction manual for specific cable sizes.
2	AC output cable	Two or three different color multi-core copper cables	10mm ²	
3	PV input cable	Photovoltaic dedicated cable (such as PV1-F)	4mm ² -6mm ²	
4	Battery cable	Red and back multi-core copper	50mm ²	
5	Communication cable	CAT5E	/	

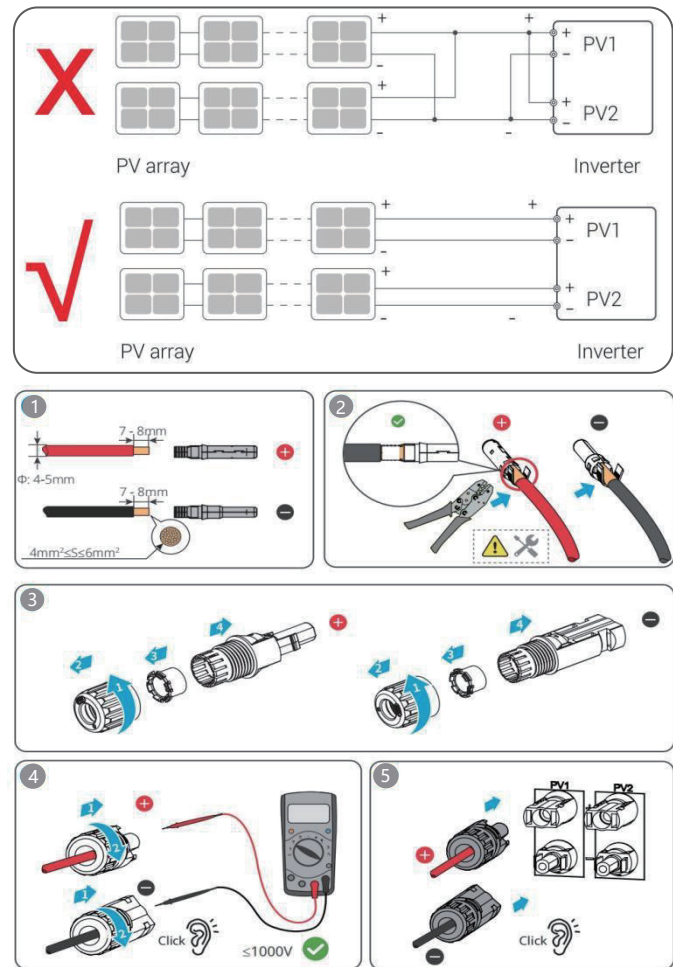
3.1 Grounding



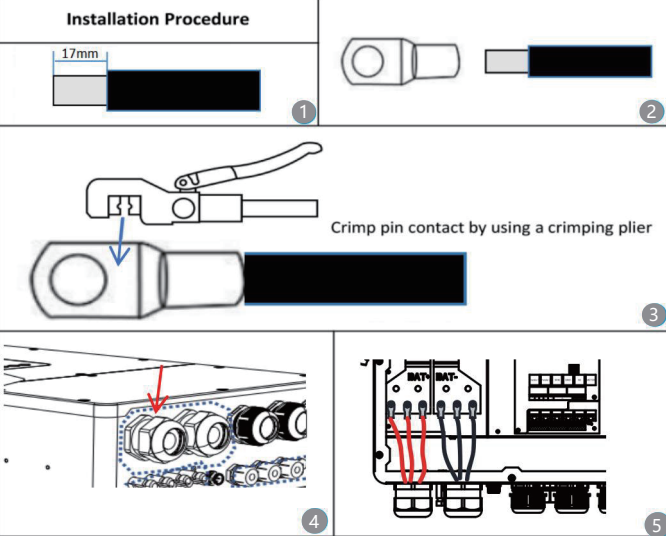
3.2 GRID, Load and GEN Wiring



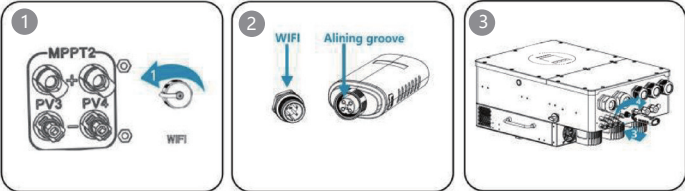
3.3 PV Wiring



3.4 Battery Wiring

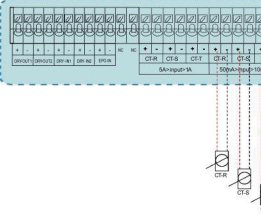


3.5 Wi-Fi&BLE stick Installation



3.6 Communication

PIN	Meter	BMS RJ45	PARA1/2	DRM	RJ45terminal
1	Meter RS485A	Lead-acid cell NTC	Para Display CAN_H	DRM1/5	RJ45terminal 1 2 3 4 5 6 7 8 T568B
2	Meter RS485B	GND	Para Display CAN_L	DRM2/6	
3	/	/	/	DRM3/7	RJ45 plug 1-8
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	



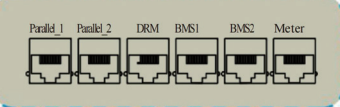
DRY-OUT1: Dry contact output.when the inverter is in off-grid mode and the "signal island mode" is checked, the dry contact will switch on.

DRY-OUT2: Reserved.

CT-R : current transformer (CT-R) for"zero export to CT" mode clamps on L1 when in three phase system.

CT-S : current transformer (CT-S) for"zero export to CT" mode clamps on L2 when in three phase system.

CT-T: current transformer (CT-T) for"zero export to CT" mode clamps on L3 when in three phase system.



Meter: For energy meter communication.

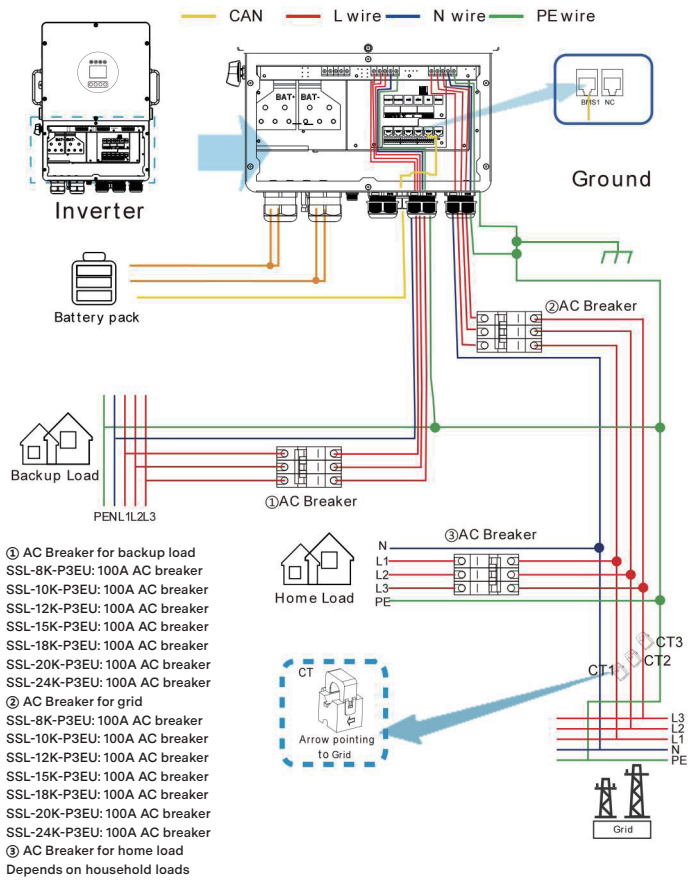
Parallel 1: Parallel communication port 1.

Parallel 2: Parallel communication port 2 .

DRM: Logic interface for AS/NZS 4777.2:2020.

BMS1: BMS port for battery communication port 1.

BMS2: Silkscreen reserved, do not wire to this port. Only BMS1 is available.



① AC Breaker for backup load
SSL-8K-P3EU: 100A AC breaker
SSL-10K-P3EU: 100A AC breaker
SSL-12K-P3EU: 100A AC breaker
SSL-15K-P3EU: 100A AC breaker
SSL-18K-P3EU: 100A AC breaker
SSL-20K-P3EU: 100A AC breaker
SSL-24K-P3EU: 100A AC breaker
② AC Breaker for grid
SSL-8K-P3EU: 100A AC breaker
SSL-10K-P3EU: 100A AC breaker
SSL-12K-P3EU: 100A AC breaker
SSL-15K-P3EU: 100A AC breaker
SSL-18K-P3EU: 100A AC breaker
SSL-20K-P3EU: 100A AC breaker
SSL-24K-P3EU: 100A AC breaker
③ AC Breaker for home load
Depends on household loads

*Note: when the reading of the load power on the APP is not correct, please reverse the CT arrow.

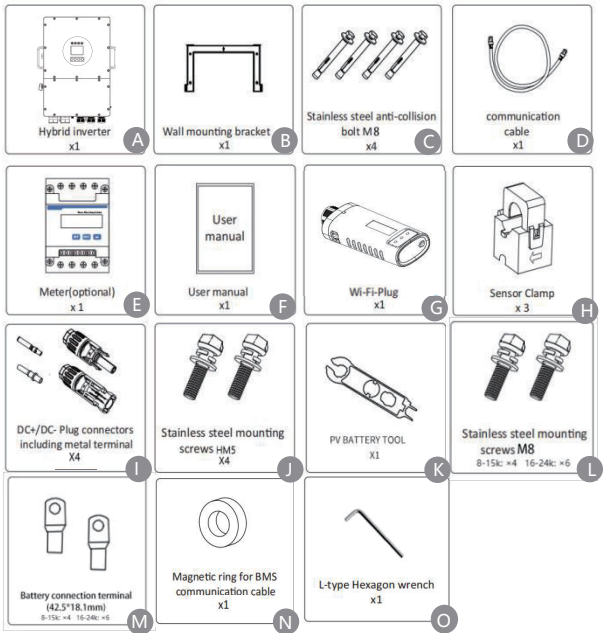
3.8 Wi-Fi Indication

 NET	 COM	 READY	Fault Description	Fault Cause	Solution
Any state	OFF	Slow flash	Communicate with inverter abnormally.	1.Connection between stick logger and inverter loosen. 2.Inverter does not match with stick logger's communication rate.	1.Check the connection between stick logger and inverter. Remove the stick logger and install again. 2.Check inverter's communication rate to see if it matches with stick logger's. 3.Long press Reset button for 5s, reboot stick logger.
OFF	ON	Slow flash	Connection between logger and router abnormal.	1.Stick logger does not have a network. 2.Router WiFi signal strength weak.	1.Check if the wireless network configured. 2.Enhance router WiFi signal strength.
Slow flash	ON	Slow flash	Connection between logger and router normal, connection between logger and remote server abnormal.	1.Router networking abnormal. 2.The server point of logger is modified. 3.Network limitation, server cannot be connected.	1.Check if the router has access to the network. 2.Check the router's setting, if the connection is limited. 3.Contact our customer service.
OFF	OFF	OFF	Power supply abnormal.	1.Connection between stick logger and inverter loosen or abnormal. 2.Inverter power in- sufficient. 3.Stick Logger abnormal.	1.Check the connection, remove the stick logger and install again. 2.Check inverter output power. 3.Contact our customer service.
Slow flash	Any state	Any state	Networking status.		1.Exit automatically after 2mins. 2.Long press Reset button for 5s, reboot stick logger. 3.Long press Reset button for 10s, restore factory settings.
Any state	Any state	Fast flash	Restore factory settings		1. Exit automatically after 1min. 2. Long press Reset button for 5s, reboot stick/logger. 3. Long press Reset button for 10s, restore factory settings.

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	Wall mounting bracket
C	4	Stainless steel anti-collision bolt M8	D	1	communication cable
E	1	Meter(optional)	F	1	User manual
G	1	Wi-Fi-Plug	H	3	Sensor Clamp
I	4	DC+/DC- Plug connectors including metal terminal	J	4	Stainless steel mounting screws HM5
K	1	PV BATTERY TOOL	L	4/6	Stainless steel mounting screws M8
M	4/6	Battery Connection Terminal	N	1	Magnetic ring for BMS communication cable
O	1	L-type Hexagon wrench			

5. Post-installation check

step	Acceptance Criteria	step	Acceptance Criteria
1	Hybrid inverter is installed correctly and firmly	2	All switches off
3	Wi-Fi & 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:

Press the Power on/off button to turn on the device, and keep the button pressed.

Turn on PV switch.

Turn on the switch between Grid and hybrid inverter.

Turn on the switch between battery and hybrid inverter and wake up battery.

If need to setup hybrid inverter. Please turn to user manual of hybrid inverter for detail description.

The shutdown steps are opposite to the above order.