

1.Overview

Name	NO.	Description	NO.	Description	NO.	Description
Indicator LED	1	Green : ON, The inverter is running ; Flash is Standby.	8	Green : ON , battery capacity is 10~34%.	15	Battery connector
	2	Blue : ON, Communication with BMS normal.	9	Lock hole	16	Communication port
	3	Yellow : ON, The inverter is in EPS mode.	10	Hand holder	17	DRM (Only for Australia)
	4	Red : The inverter is in fault mode.	11	Heat sink	18	WiFi port
	5	Green : ON , battery capacity is 90~100%.	12	PV switch	19	Grid connector
	6	Green : ON , battery capacity is 61~89%.	13	PV1 connector	20	EPS connector
	7	Green : ON , battery capacity is 35~60%.	14	PV2 connector	21	PE 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 intend 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.

2. This document is for quick guidance installation only. For details, please refer to the User Manual.

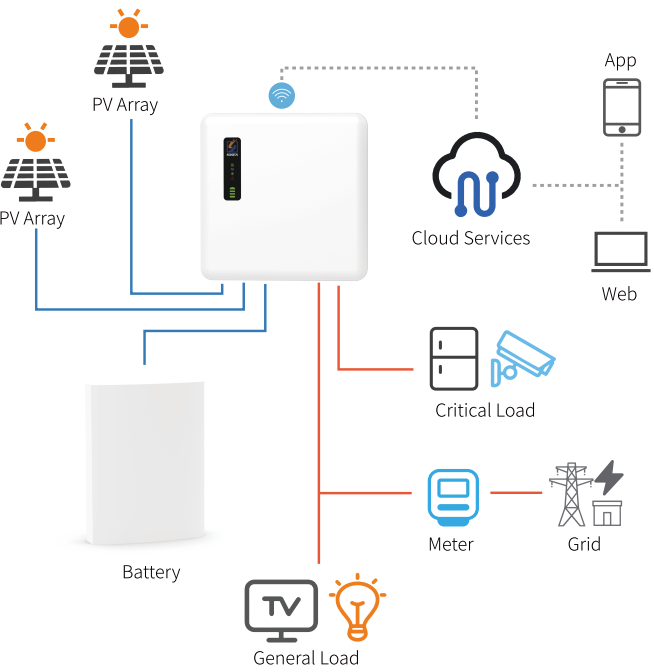
3. Machine damage caused by failure to follow the content is not covered by the warranty.

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	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.
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	
4	Battery cable	Red and back multi-core copper	6mm ²	
5	Communication cable	CAT5E	/	

3.1 Grounding

3.2 GRID Wiring

3.3 EPS Wiring

3.6 WiFi&BLE stick Installation

Follow the installation steps!

1.Remove the waterproof cover.

2.Aligning groove.

3.Plug in WiFi module.

4.Revolve to lock the WiFi module.

3.4 PV Wiring

3.5 Battery Wiring

3.7 Communication

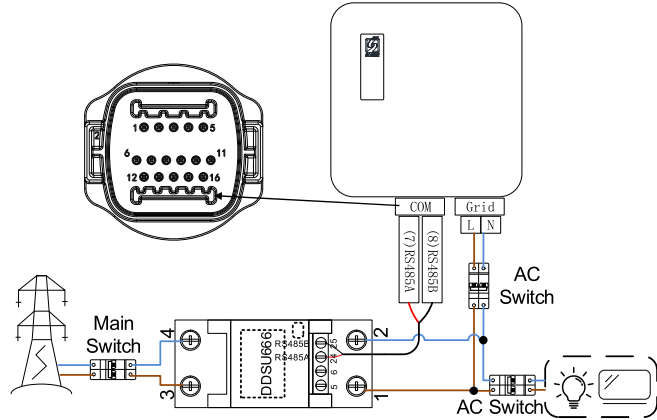
BMS_CAN

METER

EMS_485

PIN	1	2	3	4	5	6	7	8
Defini tion	NC	NC	BMS CANH	BMS CANL	NC	NC	METER 485A	METER 485B
PIN	9	10	11	12	13	14	15	16
Defini tion	EMS 485A	EMS 485B	GND_ COM	NC	PARA1_ CANH	PARA1_ CANL	PARA2_ CANH	PARA2_ CANL

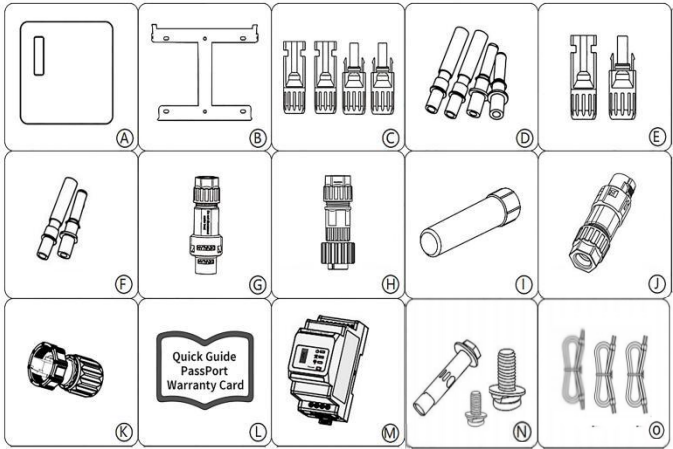
3.8 Meter Connection



3.11 DRM Connection

PIN	1	2	3	4	5	6	7	8
Definiti on	DRM 1/5	DRM 2/6	DRM 3/7	DRM 4/8	REF GEN/0	COM LOAD/ 0	V+	V-

4.What is in the box?



Item	QTY	Description	Item	QTY	Description
A	1	Inverter	B	1	Bracket
C	4	PV connectors (Black) (2*positive, 2*negative)	D	4	PV pin contacts(Black) (2*positive, 2*negative)
E	2	Battery connectors(Blue) (1*positive, 1*negative)	F	2	Battery pin contacts(Blue) (1*positive, 1*negative)
G	1	AC EPS terminal(Black)connectors	H	1	AC grid terminal(Blue)connectors
I	1	WiFi module	J	1	COM 16pin connector
K	1	DRM RJ45 connector(only for Australia)	L	3	Quick Guide & PassPort &Warranty Card
M	1	DDSU666 Single-phase electronic type guide rail mounting electric energy meter	N	7	M8*80 Expansion bolts *4 & PM6*12 × 1&PM4*14 × 2
O	3	Cables(CAN & RS485)			

3.9 App Installation and Web Monitor

Item	Web View	APP	SOSEN Energy Web&APP manual
QR Code			
Website	https://sosen.inteless.com/	iOS/Android: search "SOSEN Energy"	https://www.sosencx.com/download.html

3.10 WiFi Indication

LED	State	Indication	
	Red LED:Inverter communication indication		Green LED:Network communication indication
	Cycle for 2S: flash once quickly, then glowing	Communication abnormality:Check the connection between the WIFI stick and the inverter please	
	Not glow more than 20S	The power supply to the Wi-Fi&BLE stick is abnormal or damaged: 1. Check whether the power supply of the Aerial Plug Interface on the inverter is normal 2. Wi-Fi&BLE stick abnormal, contact the dealer	
	Cycle for 2S: flash once quickly, then off	Communication failure: Check whether the connection between the Wi-Fi&BLE stick and inverter is loose or poor contact	
	When powered on, continuously glows 3S, and then off	Power on indication	
	Glow more than 5S	Communication is normal	
	During the long glowing, flash occasionally	Network transmit data	
	Cycle for 20S: flash once quickly, then off	The route is not connected: 1. Check whether the password is right 2. Check the strength of the router	
	Cycle for 20S: flash 3 times continuously, then off	Connect to the route, but can't connect to the cloud server: 1. Check whether the router has Internet access permission 2. Check the firewall setting	
	Cycle for 20S: flash 4 times continuously, then off	Wi-Fi&BLE stick information error: Please contact the dealer	

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

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.

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