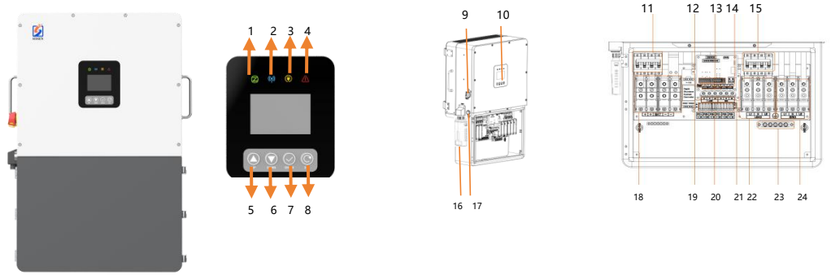
# SSE-HL8-15K-P2US-S Quick Start

## 1.Overview



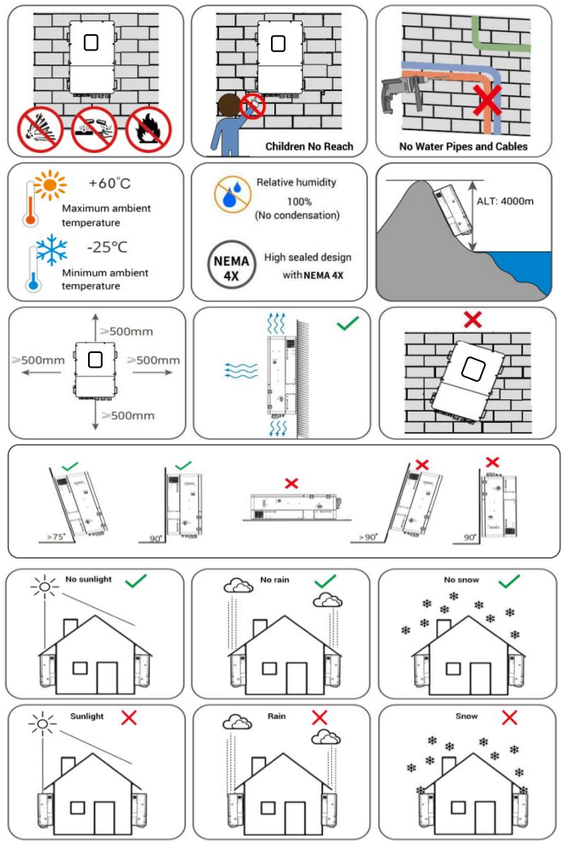

| Name | NO. | Description | NO. | Description | NO. | Description |
|---|---|---|---|---|---|---|
| Indicator LED | 1 | Green : ON, The inverter is running ; Flash is Standby. | 9 | PV DC disconnect | 17 | ON/OFF button |
| | 2 | Blue : ON, Communication with BMS normal. | 10 | LCD Screen | 18 | Battery terminals |
| | 3 | Yellow : ON, The inverter is in EPS mode. | 11 | BAT Breaker | 19 | I Loads |
| | 4 | Red : The inverter is in fault mode. | 12 | Parallel RJ45 ports | 20 | 3*PV Inputs |
| | 5 | UP:To go to previous selection | 13 | Input pinouts for sensors & accessories | 21 | Generator Terminals |
| | 6 | DOWN:To go to next selection | 14 | BMS RJ45 ports (RS485/CAN) | 22 | Load Terminals |
| | 7 | ENTER:To confirm the selection | 15 | Load Breaker | 23 | Ground busbar |
| | 8 | ESC:To exit setting mode | 16 | Wi-Fi | 24 | Grid Terminals |

**⚠ WARNING**

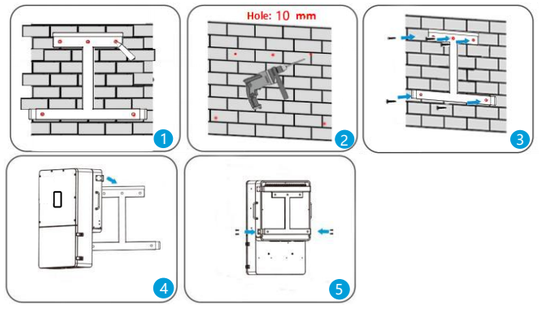
1.This file will be updated from time to time due to product upgrades or other reasons. Unless otherwise agreed, this document is intended as a guide only. All information and suggestions do not constitute an express or implied warranty. The final interpretation of the content is at company.
2. This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

## 2.Installation

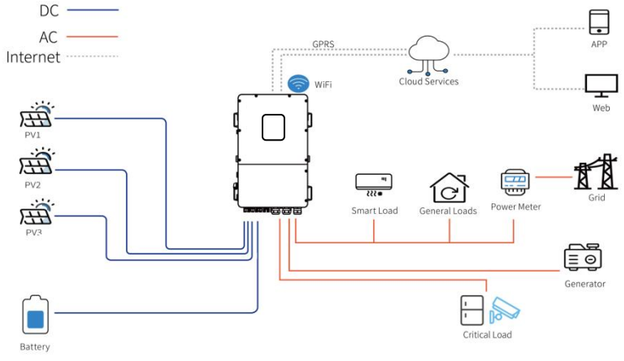
### 2.1 Installation Requirements




### 2.2 Installation Steps




### 2.3 System View



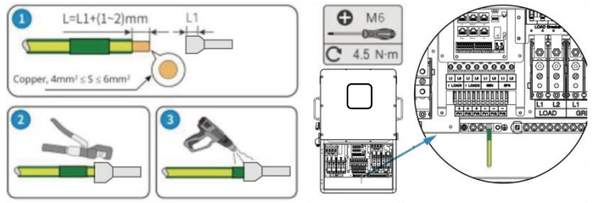

## 3.Connecting cables

| NO. | Cable name | Type | Recommend module |
|---|---|---|---|
| 1 | Grounding cable | Single multi-core yellow-green copper cable | Cable diameter≥ 10AWG |
| 2 | AC output cable | Two or three different color multi-core copper cables | Cable diameter≥2/0 AWG |
| 3 | PV input cable | Photovoltaic dedicated cable (such as PV1-F) | 12AWG-10AWG |
| 4 | Battery cable | Red and back multi-core copper | Cable diameter≥ 2/0 – 4/0 AWG |
| 5 | Communication cable | CAT5E | / |

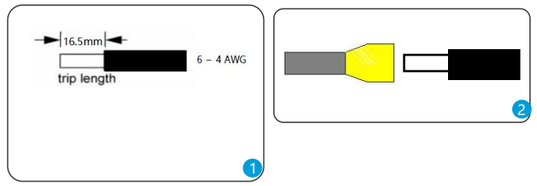
**⚠ WARNING**

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.

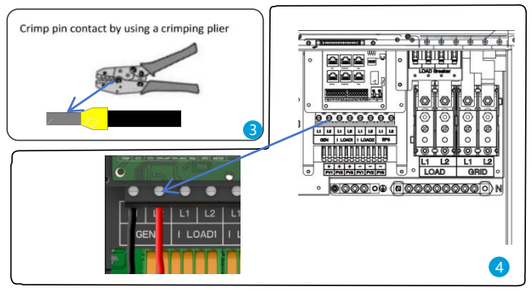
### 3.1 Grounding



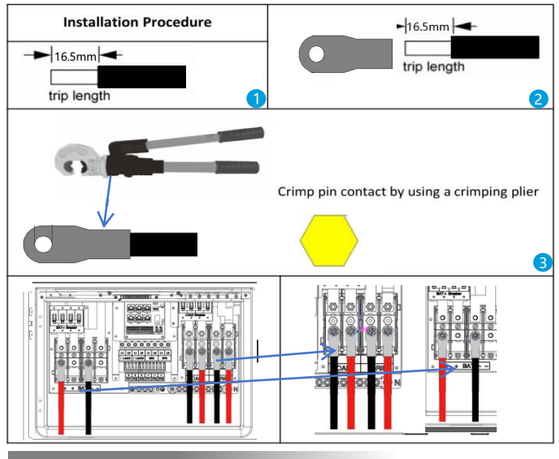

### 3.2 GEN Wiring



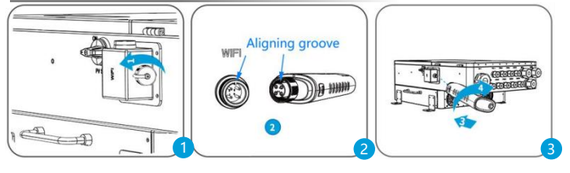


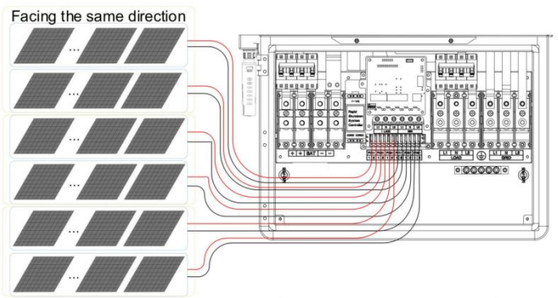

### 3.4 GRID, Load and Battery Wiring

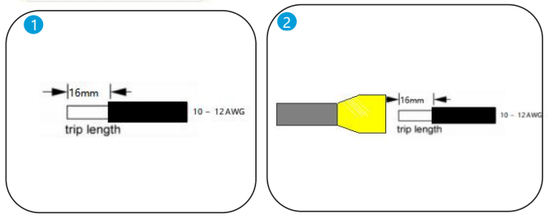


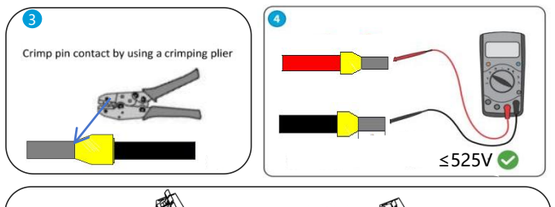

### 3.5 WiFi dongle Installation

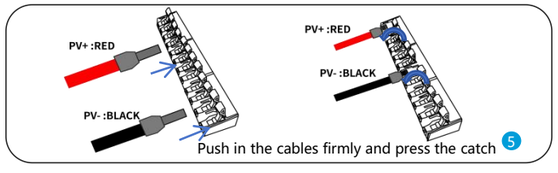



### 3.1 PV Wiring

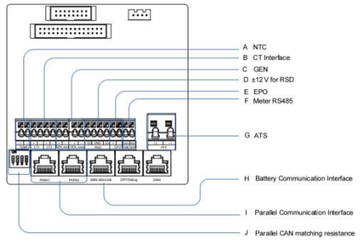


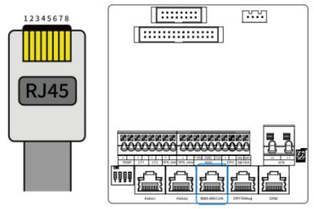




### 3.6. Communication

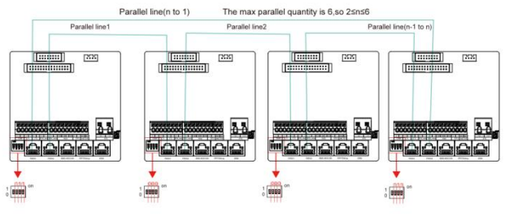


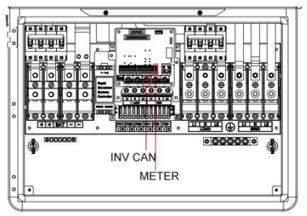

A.NTC：Connection for temperature sensor of Lead acid battery.
B.CT Interface：please check Chapter 6.7.4 for Pin definition.
C.GEN(NO): Connection for generator auto-start function. dry contact signal for startup the diesel generator. When the "GEN signal" is active, the open contact (GS) will switch on (no voltage output).
D.±12V for RSD : Power supply for RSD PLC transmitter(Max current 500mA).
E.EPO : Reserved for external EPO.
F.Meter RS485 :for meter communication.
G.ATS: 240V output port when inverter is on.
H.Battery Communication port（CAN&485）：please check Chapter 6.6.2 for Pin definition.
I.Parallel Communication port（CAN&485）：please check Chapter 6.9.1 for Pin definition.
J.Parallel CAN matching resistance：Set DIP Switch when use inverters in Parallel.

| Pin | Description |
|---|---|
| 1 | BAT RS485 A |
| 2 | BAT RS485 B |
| 3 | NC |
| 4 | BAT CAN H |
| 5 | BAT CAN L |
| 6 | NC |
| 7 | BAT RS485 B |
| 8 | BAT RS485 A |

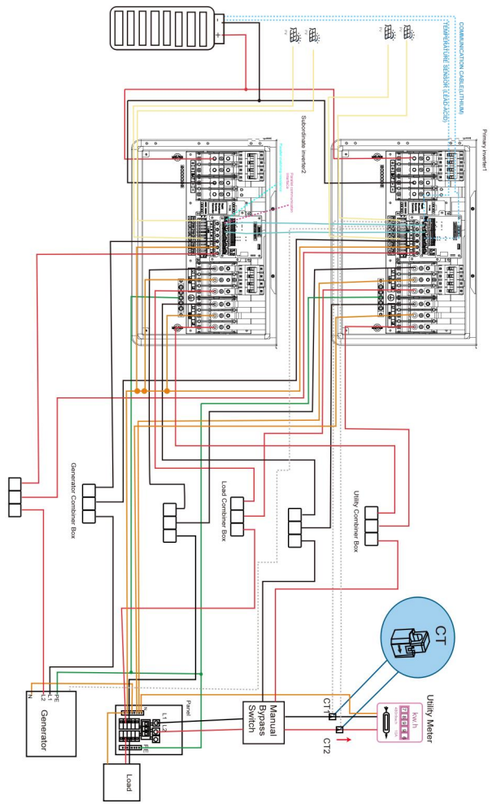





Please look at the figure horizontally



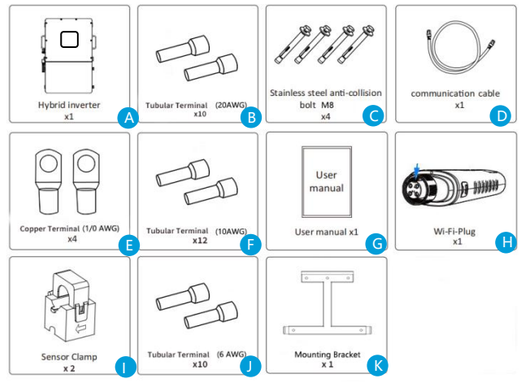

## 3.8 WiFi Indication

| NET ● NET | COM ● COM | READY ● READY | Fault Description | Fault Cause | Solution |
|---|---|---|---|---|---|
| Any state | OFF | Slow flash | Communicate with inverter abnormally | 1.Connection between stick logger and inverter loosen.<br>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.<br>2.Check inverter's communication rate to see if it matches with stick logger's.<br>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.<br>2.Router WiFi signal strength weak. | 1.Check if the wireless network configured.<br>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.<br>2.The server point of logger is modified.<br>3.Network limitation, server cannot be connected. | 1.Check if the router has access to the network.<br>2.Check the router's setting, if the connection is limited.<br>3.Contact our customer service. |
| OFF | OFF | OFF | Power supply abnormal | 1.Connection between stick logger and inverter loosen or abnormal.<br>2.Inverter power insufficient.<br>3.Stick Logger abnormal. | 1.Check the connection, remove the stick logger and install again.<br>2.Check inverter output power.<br>3.Contact our customer service. |
| Fast flash | Any state | Any state | Networking status | Normal | 1.Exit automatically after 2mins.<br>2.Long press Reset button for 5s, reboot stick logger.<br>3.Long press Reset button for 10s, restore factory settings. |
| Any state | Any state | Fast flash | Restore factory settings | Normal | 1.Exit automatically after 1mins.<br>2.Long press Reset button for 5s, reboot stick logger.<br>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 | Hybrid inverter | B | 10 | Tubular Terminal (20AWG) |
| C | 4 | Stainless steel anti-collision bolt M8 | D | 1 | communication cable |
| E | 2 | Copper Terminal (1/0AWG) | F | 12 | Tubular Terminat (10AWG) |
| G | 1 | User manual | H | 1 | Wi-Fi-Plug |
| I | 2 | Sensor Clamp | J | 10 | Tubular Terminal (6AWG) |
| K | 1 | Mounting Bracket | | | |

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

2.Turn on PV switch.

3.Turn on the switch between Grid and hybrid inverter.

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

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

6.The shutdown steps are opposite to the above order.