



Quick Installation Guide Version 1.0

S6-EH3P(75-125)K10-NV-YD-H



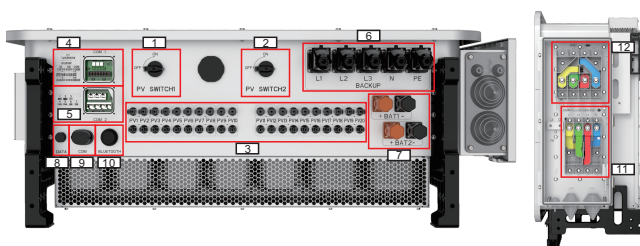
Note: Installation Manual Download

For access to the manual please scan the QR code below or you can go the URL <https://www.solisinverters.com/global/downloadcenter.html>

After entering the page, you can click "🌐" icon to change to preferred language.



1 Bottom of the Inverter



Name	Description
1. PV Switch1	PV switch of the PV1- PV10
2. PV Switch2	PV switch of the PV11- PV20
3. PV Module Input	Conduit of PV conductors should be connected here
4. COM1	Communication cables of terminal block should go through this port
5. COM2	Communication cables of terminal block should go through this port
6. BACKUP	Conduit of AC conductors to backup loads panel should be connected here
7. Battery Connection	Conduit of Battery conductors should be connected here
8. DATA	For hybrid inverter communication signal enhancement, no need operation
9. COM	For Solis data logger connection
10. BlueTooth	A antenna for Bluetooth signal.no need operation
11. SMARTLOAD/ GEN/INV	Conduit of AC conductors to generator should be connected here
12. Grid	Conduit of AC conductors to the main service panel should be connected here

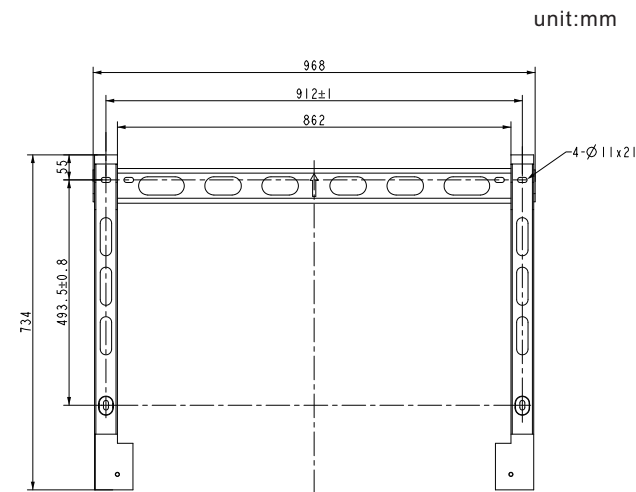
2 Installation Clearance

Minimum clearance is required.



3 Mounting Hole Size

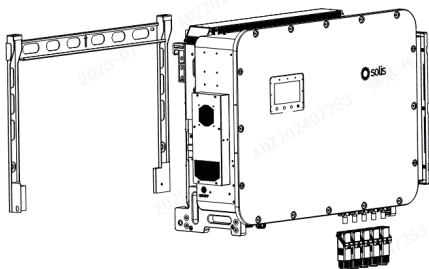
Dimensions of mounting bracket:



4 Mounting the Inverter

The steps to mount the inverter are listed below:

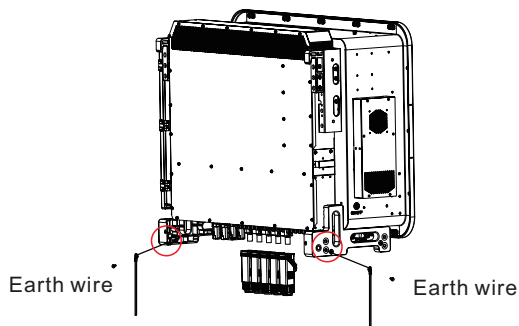
1. Select the mounting height of the bracket and mark the mounting holes. For brick walls, the position of the holes should be suitable for the expansion bolts.
2. Lift up the inverter (be careful to avoid body strain), and align the back bracket on the inverter with the convex section of the mounting bracket. Hang the inverter on the mounting bracket and make sure the inverter is secure.



5 Ground Cable Installation

An external ground connection is provided at the both sides of inverter. Prepare OT terminals: M10. Use proper tooling to crimp the lug to the terminal.

Connect the OT terminal with ground cable to the right side of inverter. The torque is 10-12N.m.

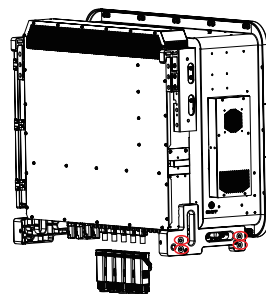


External grounding connection terminals are provided on both sides of the bottom bracket of the inverter. The grounding positions are as shown in the figure, located at the red circles. There are a total of 8 grounding positions on both sides.

Terminal type: OT terminal; Bolt type: M10. Use the appropriate tool to press the wire onto the terminal block.

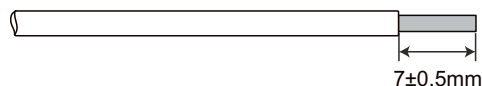
Connect the OT terminal to both sides of the inverter, with a torque of 10-12 Nm.

To connect the grounding terminal of the bottom bracket, it is recommended to use copper wire. Solid conductors or stranded wires can be used. The specific wire size should refer to local standards and regulations.



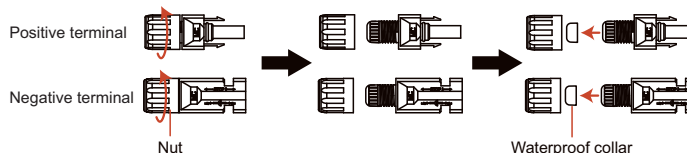
6 PV Input Terminal Assembly

1. Select a suitable DC cable and strip the wires out by 7 ± 0.5 mm. Please refer to the table below for specific specifications.

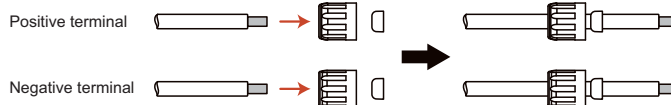


Cable type	Cross section (mm ²)	
	Range	Recommended value
Industry generic PV cable (model: PV1-F)	4.0~6.0 (12~10AWG)	4.0 (12AWG)

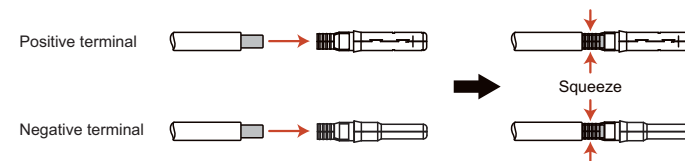
2. Take the DC terminal out of the accessory bag, turn the screw cap to disassemble it, and take out the waterproof rubber ring.



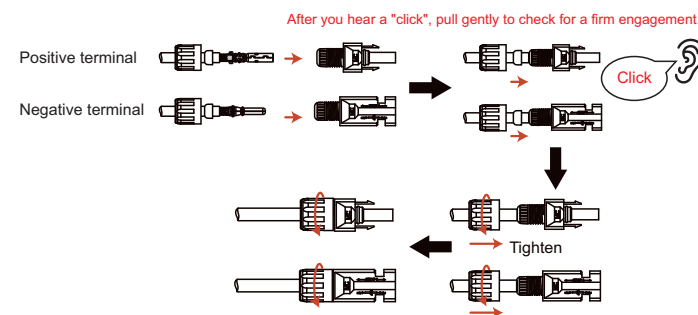
3. Pass the stripped DC cable through the nut and waterproof rubber ring.



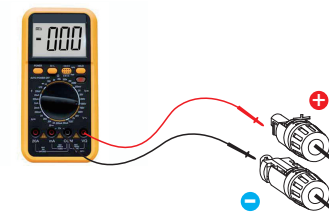
4. Connect the wire part of the DC cable to the metal DC terminal and crimp it with a special DC terminal crimping tool.



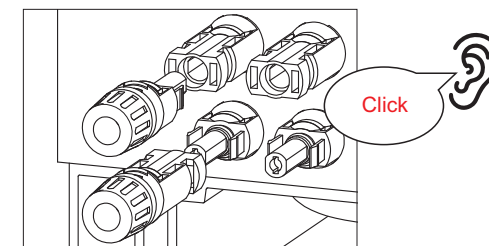
5. Insert the crimped DC cable into the DC terminal firmly, then insert the waterproof rubber ring into the DC terminal and tighten the nut.



6. Measure PV voltage of DC input with multimeter, verify DC input cable polarity.



7. Connect the wired DC terminal to the inverter as shown in the figure, and a slight "click" is heard to prove the connection is correct.

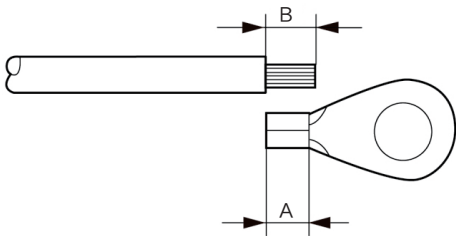


7 Battery Cable Installation

⚠ DANGER:
Before installing the battery cables, be sure that the battery is turned off. Use a multimeter to verify that the battery voltage is 0Vdc before proceeding. Consult the battery product manual for instructions on how to turn it off.

⚠ NOTE:
Recommended Fuse: $U_e \geq 1000V_{dc}$, $I_n \geq 150A$,
Breaking Capacity $\geq DC 50KA$, Altitude: 0~2000m(no derating),
Environment temperature: $-5^{\circ}C \sim 40^{\circ}C$ (no derating).
Recommended Breaker: $U_e \geq 1000V_{dc}$, $I_n \geq 125A$,
Breaking Capacity $\geq DC 50KA$, $I_i \geq 625A$,
Altitude: 0~2500m(no derating),
Environment temperature: $-40^{\circ}C \sim 55^{\circ}C$ (no derating).

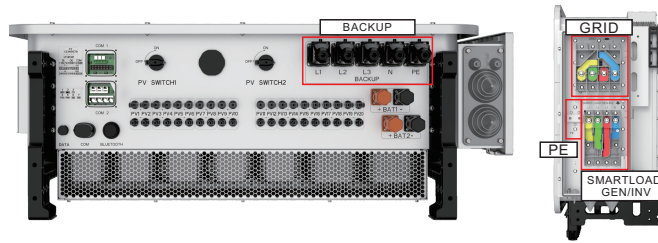
External cable connection:
Dimension of stripping cable:



⚠ NOTE:
B (insulation stripping length) is 2mm - 3mm longer than A (OT cable terminal crimping area).

Battery cable: 25.0~35.0mm² (2AWG/3AWG)
Copper Lug: M6
Torque: 4~5N.m
Not support Aluminum cable connection

8 AC Wiring



	BACKUP	SMARTLOAD/GEN/INV	GRID	PE
Wire Size	0AWG/1AWG	0AWG/1AWG	00AWG/000AWG	1AWG/2AWG
Cable	70-95mm ²	70-120mm ²	95-150mm ²	50-70mm ²
Fastener specifications	M8	M12	M12	M10
Torque	10-12N.m	20-30N.m	20-30N.m	10-12N.m
If support aluminum cable connection?	YES (But supported the maximum diameter is 95 mm ²)	YES	YES	YES

Detailed wiring steps are as follows:

1. Disconnect the AC circuit breaker to ensure it won't accidentally turn on.
2. Strip a certain length from the end of the AC cable insulation sheath. The stripping length can be referred to in the following figure. Place the R-type terminals on both ends and make a crimp connection. The crimped part of the terminals must be insulated with heat shrink tubing or insulating tape.

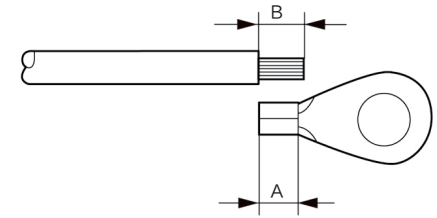
Max inverter backfeed current to PV array: Current 0A , Continuous 0 ms.

Maximum output fault current on grid port:

Max.peak current: 520A, total duration:132ms.

Current (inrush)on grid port: Max.peak current 50A , Max duration 9.2ms.

⚠ NOTE:
Recommended Breaker of Backup port and Smart port:
 $U_e \geq 400V_{ac}$, $I_n > 225A$, $I_{cs} > AC 50KA$, Altitude:0-2500m(No derating),
temperature: $-35^{\circ}C \sim 40^{\circ}C$ (No Frequency reduction).
Recommended Breaker of Grid port:
 $U_e \geq 400V_{ac}$, $I_n > 315A$, $I_{cs} > AC 50KA$, Altitude:0-2500m(No derating),
temperature: $-35^{\circ}C \sim 40^{\circ}C$ (No Frequency reduction).
Recommended External RCD: $I_{\Delta n} \geq 500mA$



⚠ NOTE:
B (insulation stripping length) is 2mm - 3mm longer than A (OT cable terminal crimping area).

⚠ NOTE:
Currently, aluminum wire connections are supported, but the backup aluminum wire can only reach a maximum of 95 mm². If it exceeds 95 mm², load reduction may be required; the wire nose can only use copper-aluminum alloy (the copper-aluminum alloy wire nose is configured according to the selected cable).

4. When connecting to the grid port and the SMARTLOAD/GEN/INV ports, remove the three screws on the cover of the inverter junction box, and then remove the junction box cover.



5. Select the matching diameter of the outlet sealing ring according to the diameter of the AC cable. Cut the diameter of the sealing ring to the appropriate size, pass the cable through the sealing ring, remove the nut at the corresponding position of the wiring box, and use a socket wrench to connect the cable to the corresponding AC terminal block in sequence. The torque should follow the recommended torque in table.
6. To ensure the waterproof effect, the operator needs to regularly check if the sealing ring is damaged.

7. When the cable is coming out in right wiring box, there should be no openings or gaps between the tower protective sleeve and the cable.

8. After the AC cable are wired, the cables should be fixed, the installers should use the ribbon to secure the wire harnessed in the holes of the surrounding metal shells.

9 CT Connection

CAUTION:

Make sure the AC cable is totally isolated from AC power before connecting the or CT.

9.1 CT Installation

The CT provided in the product box is compulsory for hybrid system installation. It can be used to detect the grid current direction and provide the system operating condition to hybrid inverter.

CT Model: AKH-0.66-K-80*40-600A

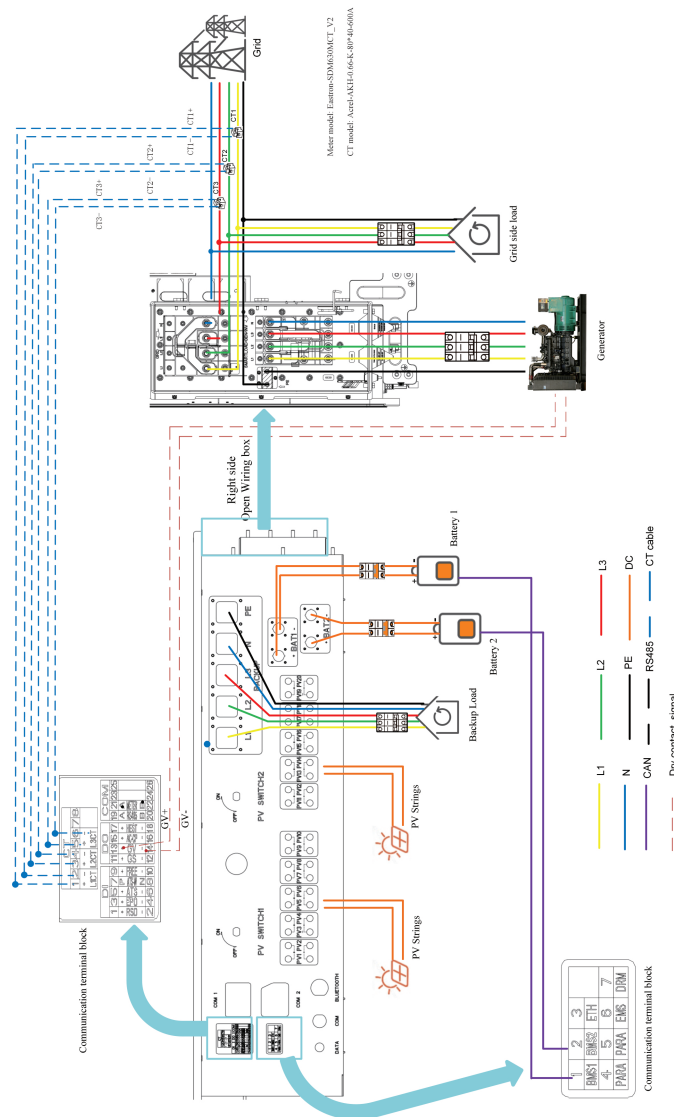
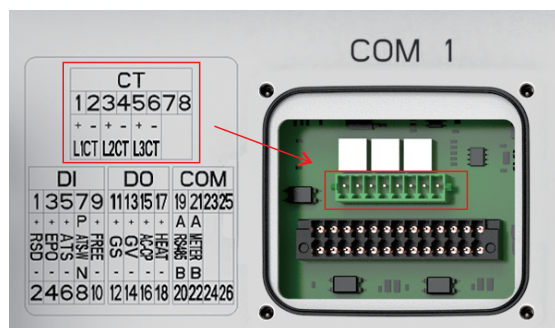
CT Cable: Size – 0.8mm², Length – 5m, its extension not supported.

CT connection: On the inverter side, it is directly inserted through the quick-insert terminal;

on the grid side, it is connected through the U-shaped terminal.

Solis marked the CT cable in 6 different colors .lead the CT cables through the COM 1 port of inverter bottom.

CT Wire	8 PIN Communication Terminal Block	Print name
Black	Pin 1 (From Left to Right)	L1CT+
Purple	Pin 2 (From Left to Right)	L1CT-
Orange	Pin 3 (From Left to Right)	L2CT+
Blue	Pin 4 (From Left to Right)	L2CT-
Yellow	Pin 5 (From Left to Right)	L3CT+
Green	Pin 6 (From Left to Right)	L3CT-

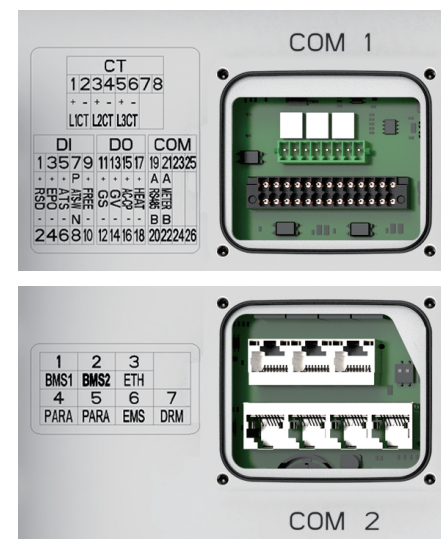


NOTE:

When install the CT , On the CT, label P1 faces the inverter side and P2 faces the power grid side.

10 Inverter Communication

10.1 Communication Ports



Wiring steps for COM1-COM2:

Step 1. Loose the cable gland and remove the watertight caps inside the cable gland based on the number of the cables and keep the unused holes with watertight cap.

Step 2. Lead the cable into the holes in the cable gland.

(COM1: 4-hole fastening rings inside the cable .

Hole Diameter: 5.3mm.

COM2: 10-hole fastening rings inside the cable .

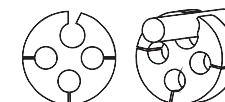
Hole Diameter:1.5mm.)

Step 3. Connect the cable to the corresponding terminals inside the wiring box.

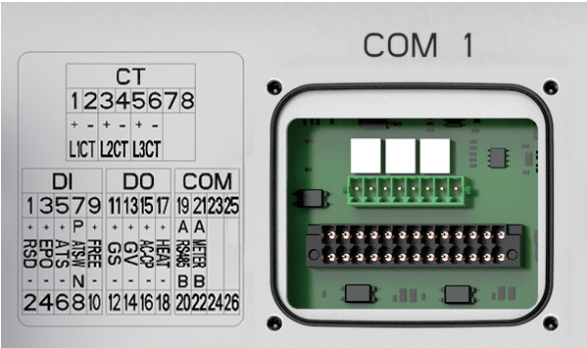
Step 4. Reassemble the cable gland and ensure there is no bending or stretching of the cables inside the wiring box.

NOTE:

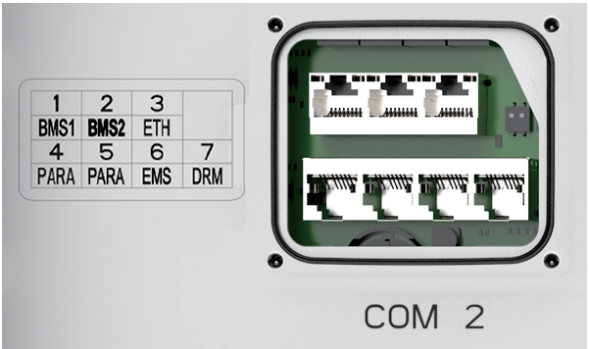
Please separate the gap with hand and squeeze the cables into the holes from the side openings.



10.2 Communication Terminals



Terminal	Type	Description
CT	Push-In Terminal	For CT connection.
RSD		The positive and negative electrodes are short-circuited at the factory, the inverter will stop when disconnected. If customer has the requirement for RSD Function They need to use an external switch or external controller to control it.
EPO		Same logic as RSD function, customized functions can be accepted from customers, allowing them to choose whether to shut down the system or merely stop PV output on this function.
ATS		Used for external ATS dry contact signal transmission.
ATSW		Used for external power adaptor (DC12V/5V) dry contact signal transmission.
FREE		Reserved for customized function.
GS		Used for Generator start/stop signal.
GV		Used for Generator start/stop signal.
ACCP		Used for hybrid inverter control the external breaker to cutoff the PV inverter AC connection with hybrid inverter smart port.
HEST		Used for heat pump.
RS485		Used for 3rd party device control.
METER		Used to meter connection.



Terminal	Type	Description
BMS1	RJ45 Connector	For battery communication (CAN protocol).
BMS2		For battery communication (CAN protocol).
ETH		Ethernet port, support TCP/IP, used for other external communication, the standard Ethernet Port definition: 1-TX+,2-TX-,3-RX+,6-RX-.
PARA		For parallel mode connection between inverters.
PARA		For parallel mode connection between inverters.
EMS		For external 3rd party EMS control.
DRM		For DRM function requirement in some regions.
DIP Switch	Switch	If a inverter is set as the first or last inverter in the parallel connection, you need to put all the DIP switch on this inverter to ON state , and the middle machine should be on OFF state.

10.3 BMS Terminal Connection

10.3.1 With Lithium Battery

CAN communication is supported between inverter and compatible battery models. Please lead the CAN cable through the COM1 or COM2 port of the inverter and connect to the BMS terminal with RJ45 connector.

If you want connect one battery with bigger capacity and charged by DC1 port AND DC2 port at same time, you should connect the CAN cable to BMS 1 terminal inside the inverter. Commonly, connecting one battery with DC1 port AND DC2 means you should connect DC 1 and DC2 in parallel and then connect one battery.



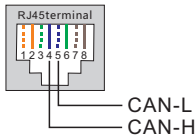
NOTE:

Before connecting CAN cable with the battery, please check whether the communication pin sequence of the inverter and the battery match; If it does not match, you need to cut off the RJ45 connector at one end of the CAN cable and adjust the pin sequence according to the pin definitions of both inverter and battery.

Pin definition of the inverter BMS Port is following EIA/TIA 568B.

CAN-H on Pin 4: Blue

CAN-L on Pin 5: Blue/White



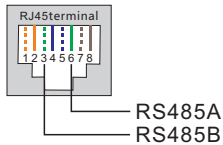
NOTE:

Before connecting RS485 cable with the battery, please check whether the communication pin sequence of the inverter and the battery match; If it does not match, you need to cut off the RJ45 connector at one end of the RS485 cable and adjust the pin sequence according to the pin definitions of both inverter and battery.

Pin definition of the inverter BMS Port is following EIA/TIA 568B.

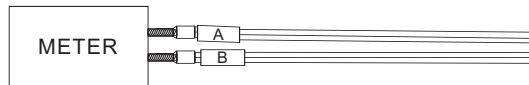
RS485A on Pin 6: Green

RS485B on Pin 3: Green/White



10.4 Meter Terminal Connection (Optional)

The smart meter using the MODBUS as communication protocol, when you want to use the smart meter measurement, you should lead the RS485 meter cable through the com1 port of inverter bottom. Lead the meter RS485 A cable to 21 pin, RS485 B cable to 22 pin in the internal quick-plug terminal of inverter.



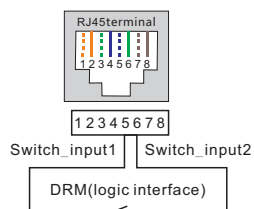
10.5 DRM Port Connection (Optional)

10.5.1 For Remote Shutdown Function

Solis inverters support remote shutdown function to remotely control the inverter to power on and off through logic signals.

The DRM port is provided with an RJ45 terminal and its Pin5 and Pin6 can be used for remote shutdown function.

Signal	Function
Short Pin5 and Pin6	Inverter Generates
Open Pin5 and Pin6	Inverter Shutdown in 5s



Correspondence between the cables and the stitches of plug, Pin5 and Pin6 of RJ45 terminal is used for the logic interface, other Pins are reserved.

Pin 1: Reserved; Pin 2: Reserved
Pin 3: Reserved; Pin 4: Reserved
Pin 5: Switch_input1; Pin 6: Switch_input2
Pin 7: Reserved; Pin 8: Reserved

10.5.2 For DRED Control Function (For AU and NZ Only)

DRED means demand response enable device.

The AS/NZS 4777.2:2020 required inverter need to support demand response mode(DRM).

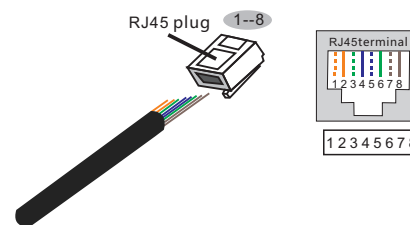
This function is for inverter that comply with AS/NZS 4777.2:2020 standard. A RJ45 terminal is used for DRM connection.

Pin	Assignment for inverters capable of both charging and discharging
1	DRM 1/5
2	DRM 2/6
3	DRM 3/7
4	DRM 4/8
5	RefGen
6	Com/DRM0
7	V+
8	V-



NOTE:

Solis hybrid inverter is designed to provide 12V power for DRED.



Correspondence between the cables and the stitches of plug

Pin 1: white and orange ; Pin 2: orange
Pin 3: white and green; Pin 4: blue
Pin 5: white and blue; Pin 6: green
Pin 7: white and brown; Pin 8: brown

10.6 RS485 Terminal Connection (Optional)

If a 3rd party external device or controller needs to communicate with the inverter, the RS485 port can be used.

Modbus RTU protocol is supported by Solis inverters.

To acquire latest protocol document, please contact Solis local service team or Solis sales.

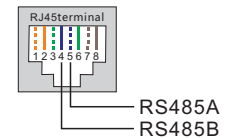


NOTE:

Pin definition of the RS485 Port is following EIA/TIA 568B.

RS485A on Pin 5: Blue/White

RS485B on Pin 4: Blue



10.7 Parallel Terminal Connection (Optional)

Up to 6 units of the inverter can be connected in parallel, if you have demand for 7-10 pcs in parallel mode, you should ask local solis technology support. Please connect the paralleled inverters by using P-A and P-B terminals. Standard CAT5 with shielding layers internet cable can be used.

1. ALL inverter MUST be connected to their own HV battery.
2. NOT support two or more inverters connect to the same one battery.



NOTE:

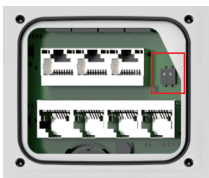
In a parallel system, if the battery number configuration is not one-to-one sufficient, only the slave machine can be left unconnected, while the master machine must be connected to the battery.

And the battery which one has the highest capacity we recommend you connect it to master machine is better for system stability.



NOTE:

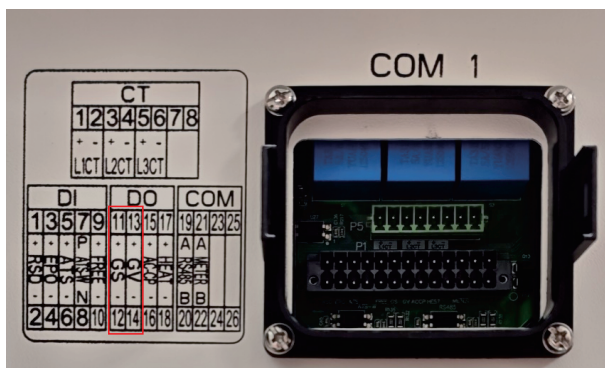
If the parallel machine is connected to the first and last consoles of the parallel connection, you need to put the DIP switch on the ARM board to "ON" position, and all the middle machines' DIP switch should be put to "OFF" position.



10.8 Generator communication connection(G-S/G-V/ATS/ATS-W)

The G-S(Pin11,Pin12), G-V(Pin13,Pin14) are DO ports. You can use this ports to output dry contact signal to generator to control the generator start or stop automatically.

The ATS (Pin5, Pin6), ATS-W (Pin7, Pin8) are DI ports, If you have installed generator with ATS device. You can use the this ports connect to ATS or Power Adaptor(12V/5V) to detect the power grid state, if grid tripped, the ATS OR Power Adaptor will send dry contact signal to hybrid inverter.



10.9 Generator Wiring

- 1.The backup PE must be directly connected to the PE copper bar of the power distribution box, rather than the inverter shell.
- 2.The generator itself needs to be grounded, connected to the electric box, and connected to the inverter generator port.
3. When the generator is working, disconnect the Grid breaker or leakage current protector on the side of the power box immediately.



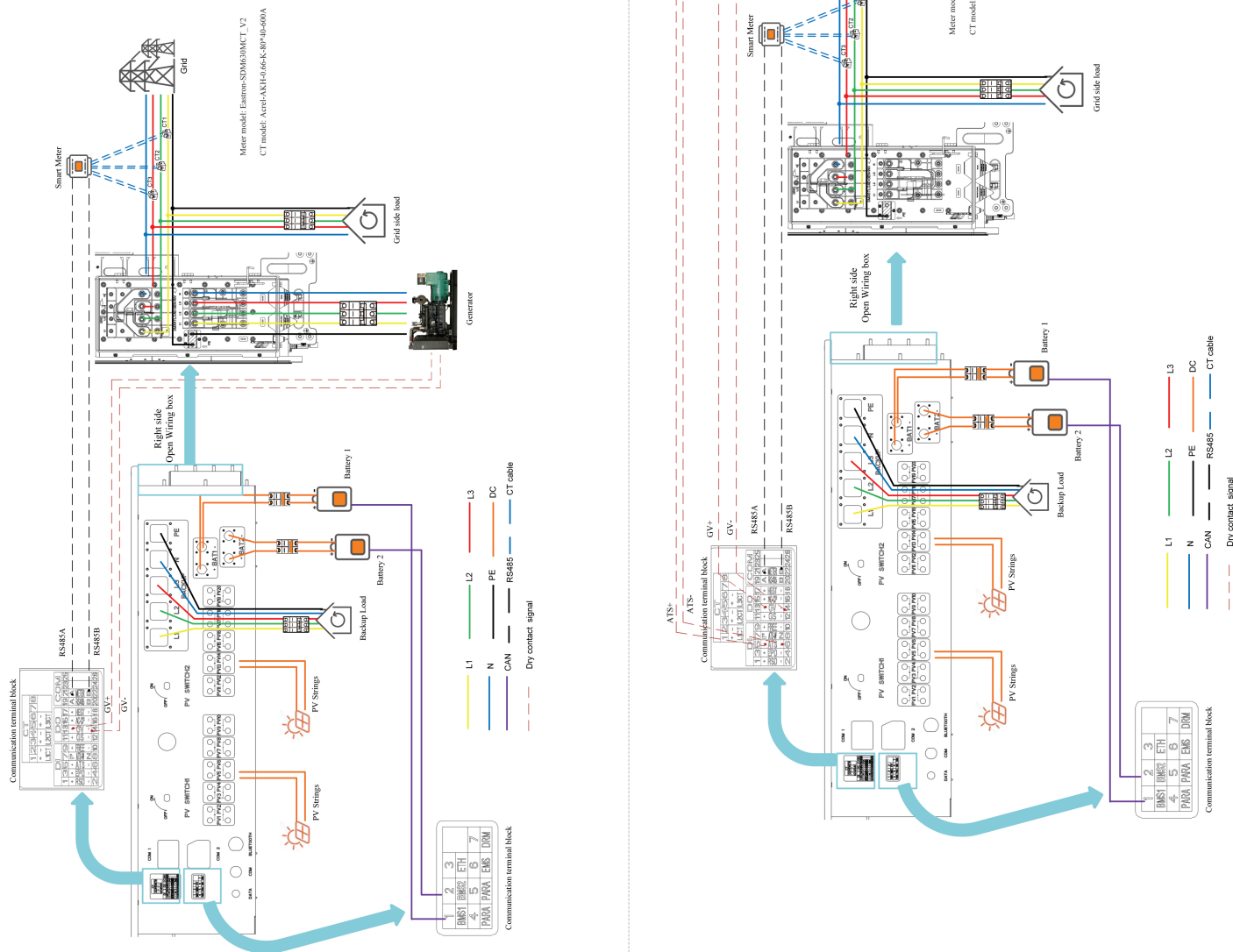
NOTE:

If you want use the smart port to connect a generator, there is no limit to the generator capacity. However, the maximum active power that the smart port can obtain from the generator is 125kW. We recommend that the generator power should be in the range: 25kW~125kW

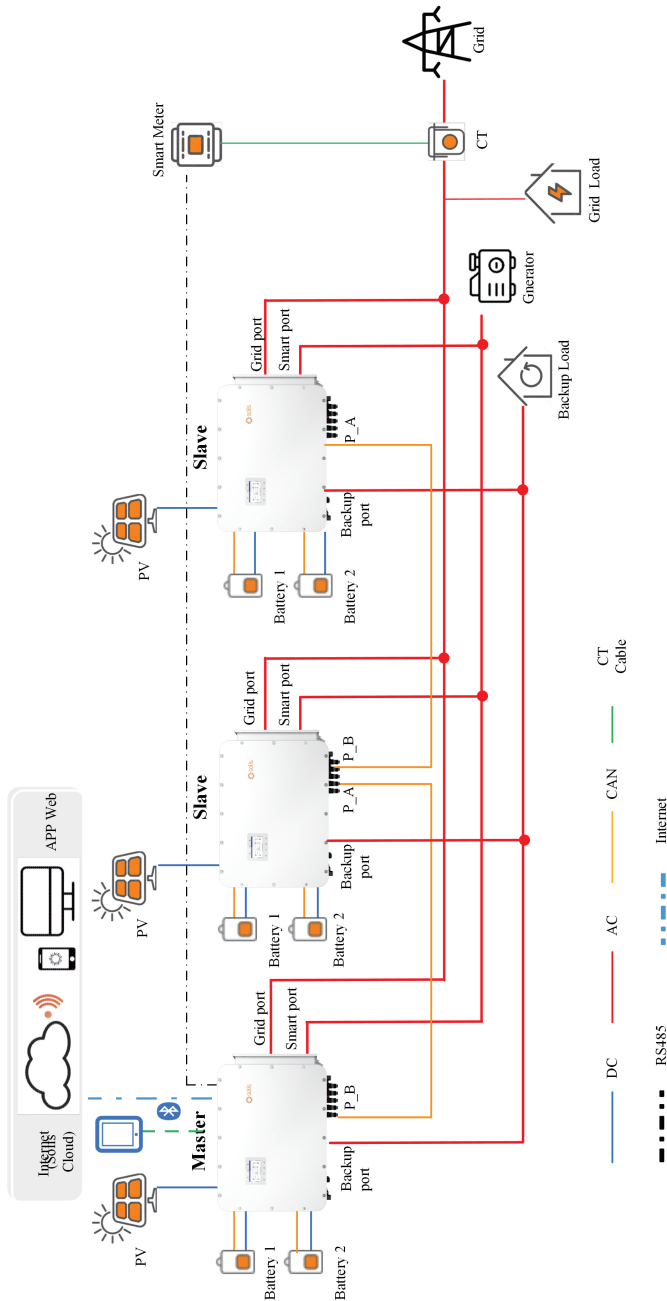


NOTE:

If you need connect the generator on inverter smart port or inverter grid port, when you are connecting the power cable, you should keep the cable conned in right correspond phase sequence. For example: if you do the wrong operation , like connecting the A phase point form Inverter to the B or C phase point from generator, when you want start generator, the inverter will report alarm and the generator cannot start normally!



10.10 Parallel System Wiring



NOTE:

When under parallel system (inverter amount > 2), the AC cable length difference from inverter grid/backup port to the busbar should not exceed 10%.

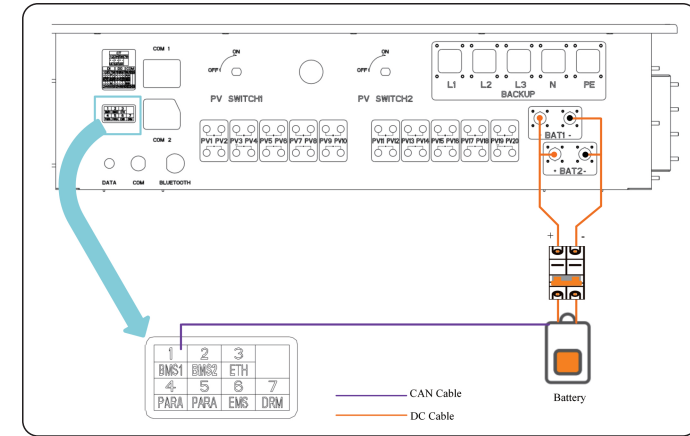
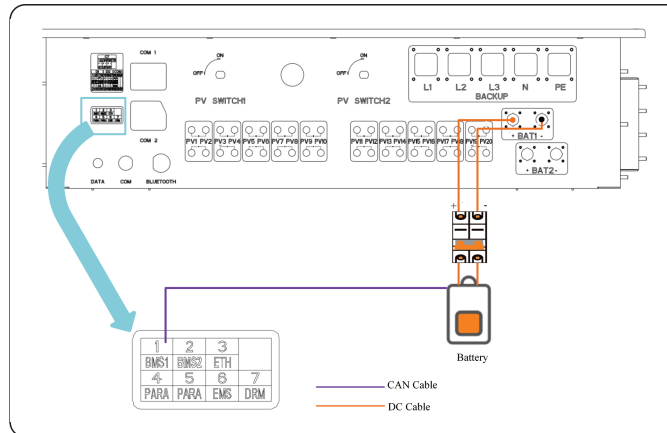
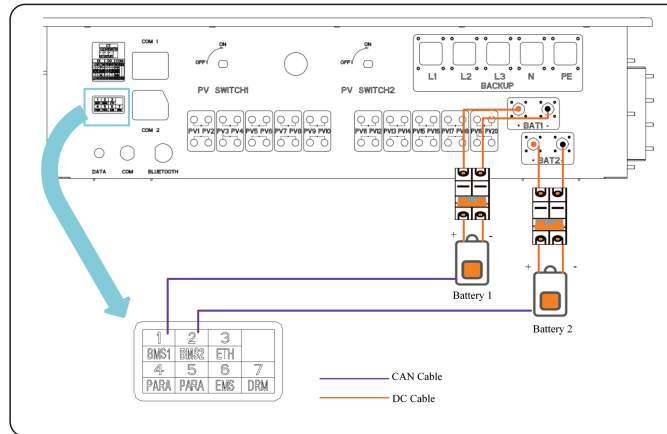


NOTE:

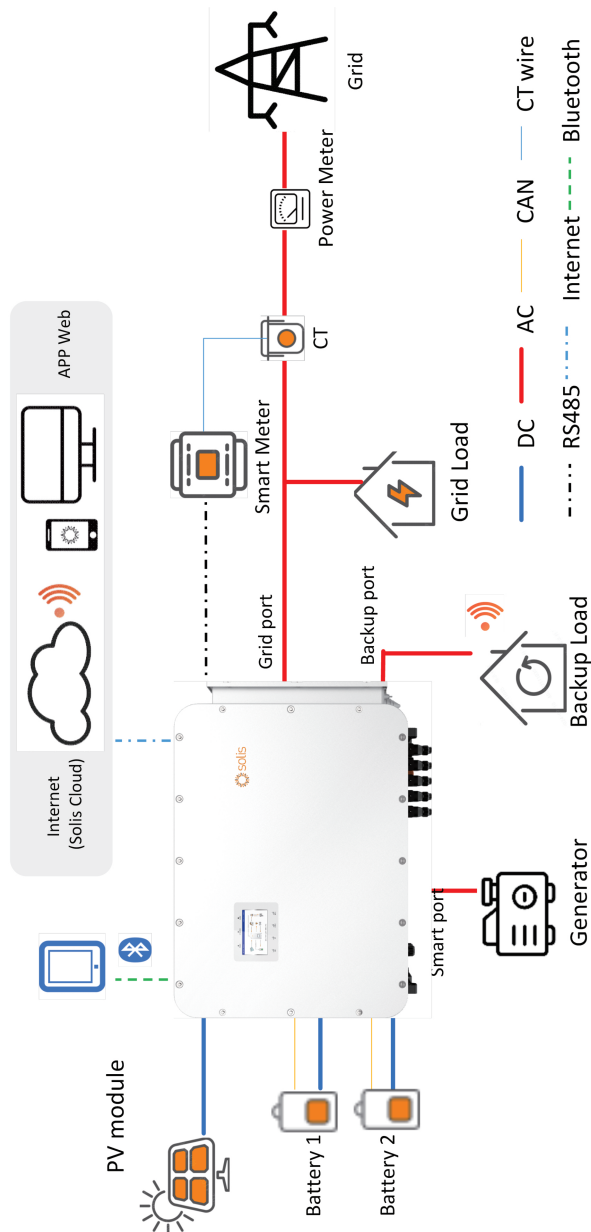
If the inverter amount ≥ 2 in parallel mode on site, you must set the parallel mode on Solis app for each inverter in case of avoiding the damage to inverter when power on, the specific setting method can refer to the Parallel setting.

10.11 Lithium Battery Wiring

Inverter supports the 3 wirings methods to connect to lithium battery. If you have only one battery, you **MUST** connect it to DC 1 port on inverter, and communication cable **MUST** be connected to BMS 1 port on the inside terminal block.



10.12 Smart Meter measurement connection method for system



11 Commissioning

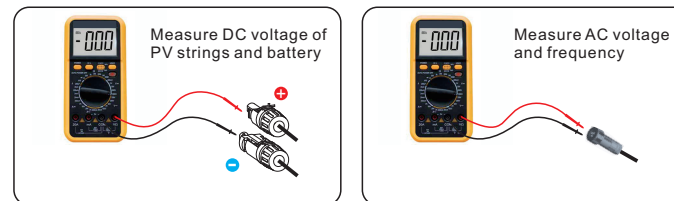
11.1 Pre-Commissioning

- Make sure that no high voltage conductors are energized.
- Check all conduit and cable connection points ensure they are tight.
- Verify that all system components have adequate space for ventilation.
- Follow each cable to ensure that they are all terminated in the proper places.
- Ensure that all warning signs and labels are affixed on the system equipment.
- Verify that the inverter is secured to the wall and is not loose or wobbly.
- Prepare a multimeter that can do both AC and DC amps.
- Have an Android or Apple mobile phone with Bluetooth capability.
- Install the Soliscloud APP on the mobile phone and register a new account.
 - There are three ways to download and install the latest APP.
 1. You can visit www.soliscloud.com.
 2. You can search "Soliscloud" in Google Play or APP Store.
 3. You can scan this QR code to download Soliscloud.



11.2 Power ON

Step 1: With the DC switch off, energize the PV strings and then measure DC voltage of the PV strings to verify that the voltage and polarity are correct. Turn on the battery and check the battery voltage and polarity as well.



Step 2: Turn on the OCPD for the system and then measure the AC voltages line to line and line to neutral. The backup side of the system will be off until commissioning is complete. Turn the OCPD back off for now.

Step 3: Turn the DC switch on and then the OCPD (AC breaker) for the system. This inverter can be powered on by PV only, battery only and Grid only. When the inverter is powered on, the five indicators will be lighted at once.

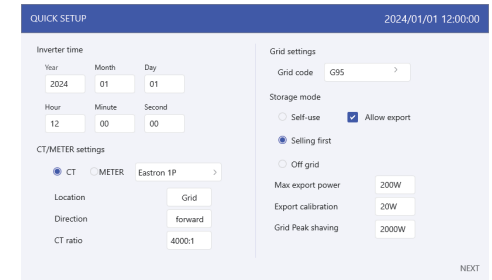
11.3 Power OFF

- Step 1: Turn off the AC breaker or AC disconnect switch to disable AC power to the inverter.
- Step 2: Turn off the DC switch of the inverter.
- Step 3: Turn off the battery breaker.
- Step 4: Use a multimeter to verify that the battery and AC voltages are 0V.

11.4 HMI Screen Quick Setting

If this is the first time the inverter has been commissioned, you will need to first go through the Quick Settings. Once this has been done, these settings can be changed later.

Inverter Time -> Meter Setting -> Grid Code -> Storage mode -> Battery Model



1. Inverter time:

Set inverter time and date, default follow the phone.

2. CT/Meter setting:

Select the CT or Meter, Solis provide Easton 3 phase meter, it is self-identifiable.

Set installation location: Grid side / Load side / Grid+PV inverter;

CT direction: When CT installed correctly, select "Forward"; when CT installed direction wrong, the sampling current of CT will be reversed when calculating the power, select "Reversal" to correct it.

Set CT ratio: default 60 (Solis provide ESCT-T50-300A/5A CT), if the user install their own CT, then need to set the CT ratio manually.

If the system connected to Meter, then CT ratio need to be set on Meter.

3. Grid code:

Select grid code that meet the local regulations.

4. Storage mode:

ALL modes first priority is to use the available PV power to support loads. The different modes determine what the second priority, or use of the excess PV power, will be.

Self-use / Selling first / Off-grid are exclusive, the user could select only one mode.

Self-use:

PV power flow priority sequence: loads > battery > grid.
In this mode, the system stores excess PV power into the battery after the loads are supplied.
If “Allow export” turned on, when the battery is charged full, or there is no battery, the excess PV power will be exported(sold)back to the grid.
If the system is set to not export any power, then the inverter will curtail the PV power (derate the inverter output power).

Selling first:

PV power flow priority sequence: loads > grid > battery.
In this mode, the system exports any excess PV power after the loads are supplied. If the export power quota has been met, then the remaining PV power will be stored in the battery.

Notice:

This mode should not be used if export power set to zero.

Off grid:

PV power flow priority sequence: loads > battery.
This mode only used when the system are not electrically connected to the grid at all. This mode is like Self-Use Mode, but the PV power will be curtailed if the PV power output is > battery power + load power

Under each mode, user could set other functions based on their requirements.

Max export power:

Default: 1.1 times of rated power.
Notice: if feed-in is not allowed, set Max export power to 0.

Export calibration:

Range : -500w-500w, default 20w, settable.
To compensate the deviation of CT/Meter in practical application.

Grid peak shaving:

Default enable, default 2 times of rated power.
Limit the power drawn from the grid to prevent from exceeding regulatory requirements or the power line capacity.
It works only when the “battery reserve” turned on.

5. Battery setting:

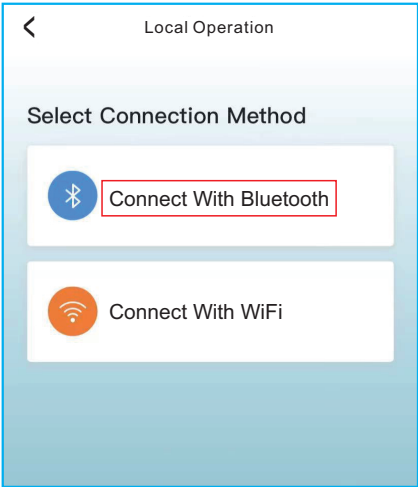
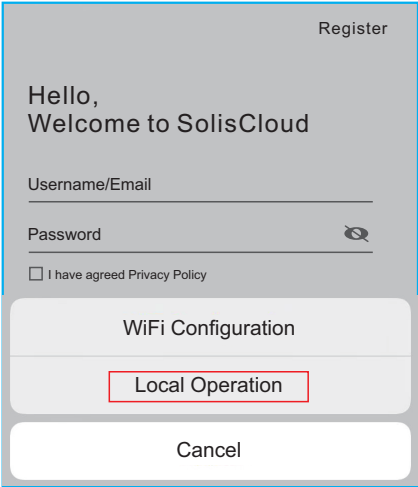
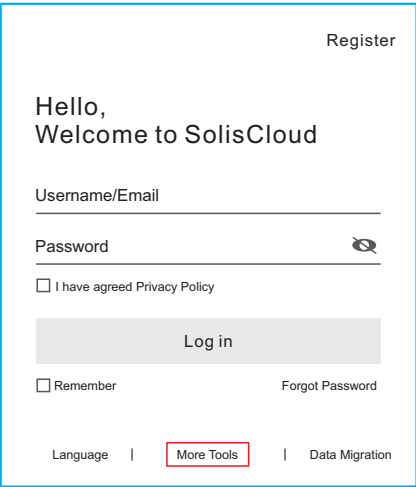
Select Battery connection method : 1 Batt 1 DC / 1 Batt 2 DC / 2 Batt 1 DC; the connection method please refer to section 12 Lithium battery wiring.
Select battery brand (if the connected battery is not on the list, please select “General_LiBat_HV”).
Set Max charging/discharging current.
If there are two batteries and share the same settings, please tick the box of “Batt2 Settings follow Batt 1”.



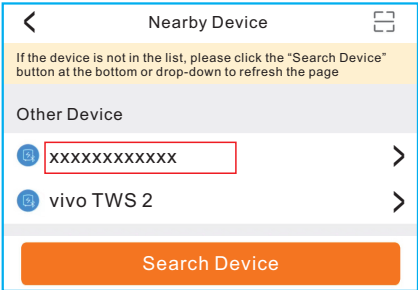
11.5 Log in the APP via Bluetooth

Step 1: Connect with Bluetooth.

Turn on Bluetooth switch on your mobile phone and then open the Soliscloud APP.
Click “More Tools”->”Local Operation”->”Connect with Bluetooth”

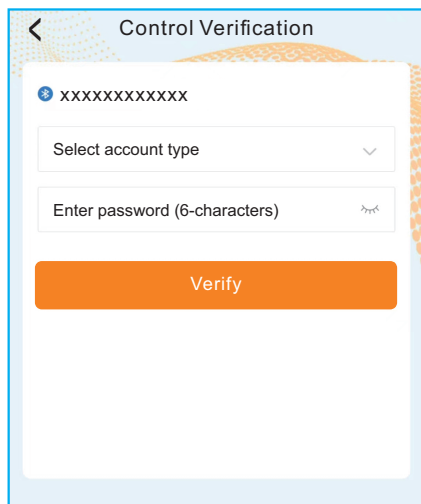


Step 2: Select the Bluetooth signal from the inverter. (Bluetooth Name: Inverter SN)



Step 3: Login account.

If you are the installer, please select the account type as Installer.
If you are the plant owner, please select the account type as owner.
Then set your own initial password for control verification. (The first log-in must be finished by installer in order to do the initial set up)



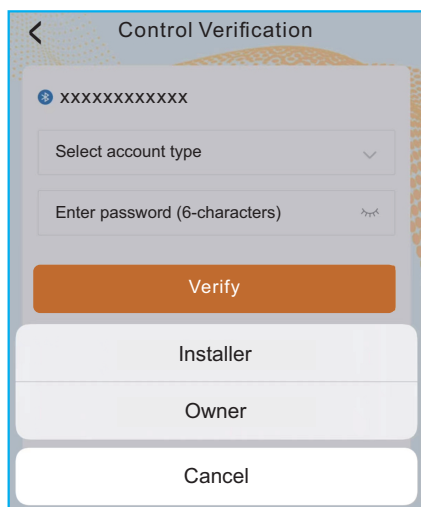
Control Verification

XXXXXXXXXX

Select account type

Enter password (6-characters)

Verify



Control Verification

XXXXXXXXXX

Select account type

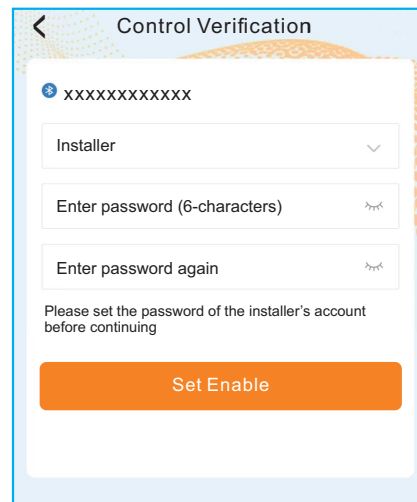
Enter password (6-characters)

Verify

Installer

Owner

Cancel



Control Verification

XXXXXXXXXX

Installer

Enter password (6-characters)

Enter password again

Please set the password of the installer's account before continuing

Set Enable

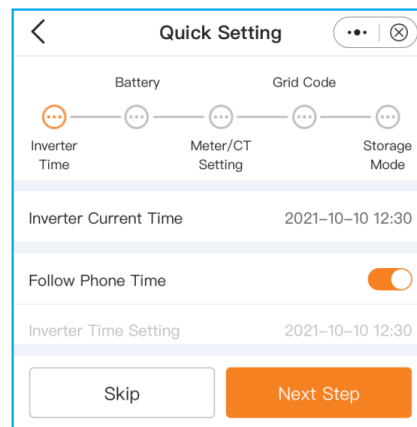
11.6 APP Quick Setting

If this is the first time the inverter has been commissioned, you will need to first go through the Quick Settings. Once this has been done, these settings can be changed later.

Inverter Time -> Meter Setting -> Grid Code -> Storage mode -> Battery Model

(1) Inverter time:

Set inverter time and date, tap the slider next to "Follow Phone Time", then tap "Next step" at the bottom right corner.



Quick Setting

Battery Grid Code

Inverter Time Meter/CT Setting Storage Mode

Inverter Current Time 2021-10-10 12:30

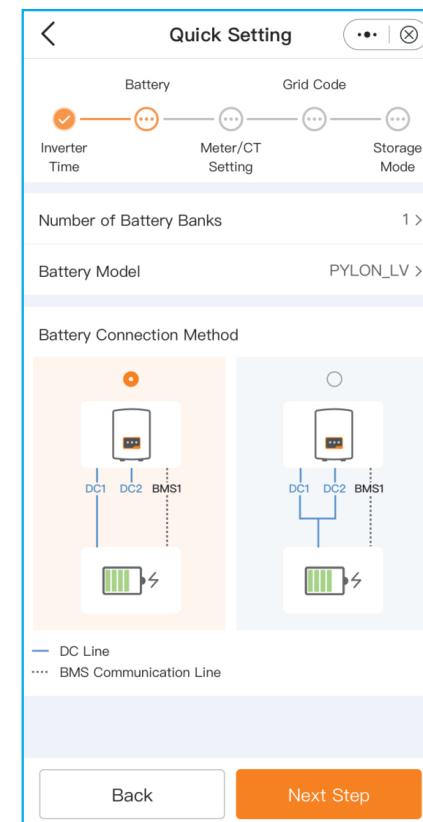
Follow Phone Time

Inverter Time Setting 2021-10-10 12:30

Skip Next Step

(2) Battery:

- Select number of battery banks : 1-2 ;
- Select battery model: if the connected battery brand is not on the list, please select "General_LiBat_HV"
- Select battery connection method.



Quick Setting

Battery Grid Code

Inverter Time Meter/CT Setting Storage Mode

Number of Battery Banks 1

Battery Model PYLON_LV

Battery Connection Method

DC Line BMS Communication Line

Back Next Step

Quick Setting

Battery Grid Code

Inverter Time Meter/CT Setting Storage Mode

Number of Battery Banks 2 >

Battery Model PYLON_LV >

Battery2 Model PYLON_LV >

Battery Connection Method

— DC Line
···· BMS Communication Line

Back Next Step

(3)CT/Meter setting:

- Select CT or Meter;
- Set Meter type (Solis provide Eastron 3 phase meter, it is self-identifiable).
- Set Meter installation location: Grid side / Load side / Grid+ PV inverter;
- Set CT ratio: default 60 (Solis provide ESCT-T50-300A/5A CT), if the user install their own CT, then need to set the CT ratio manually. If the system connected to Meter, then CT ratio need to be set on Meter.
- CT direction: When CT installed correctly, select “Forward”; when CT installed direction wrong, the sampling current of CT will be reversed when calculating the power, select “Reversal” to correct it.

Quick Setting

Battery Grid Code

Inverter Time Meter/CT Setting Storage Mode

Meter/CT Setting CT >

Meter Installation Location Grid side >

CT Ratio 0 >

Back Next Step

Quick Setting

Battery Grid Code

Inverter Time Meter/CT Setting Storage Mode

Meter/CT Setting Meter >

Meter Type >

Meter Installation Location >

CT Detection >

CT Direction Forward >

Back Next Step

Quick Setting

Battery Grid Code

Inverter Time Meter/CT Setting Storage Mode

Meter/CT Setting CT >

Meter Installation Location

☒ Grid side
☐ Load side
☐ Grid + PV Inverter
 (Only Eastron Meter)

Cancel Save

Back Next Step

(4)Grid code:
Select grid code that meet the local regulations.
Three level of Over-voltage / under-voltage / Over-frequency / under-frequency are default based on grid code, there is no need to set the parameters in manual.

(5)Storage mode:
ALL modes first priority is to use the available PV power to support loads. The different modes determine what the second priority, or use of the excess PV power, will be. Self-use / Selling first / Off-grid are exclusive, the user could select only one mode.

Self-use:

PV power flow priority sequence: loads > battery > grid.
In this mode, the system stores excess PV power into the battery after the loads are supplied. If the battery is charged full, or there is no battery, the excess PV power will be exported(sold)back to the grid.
If the system is set to not export any power, then the inverter will curtail the PV power (derate the inverter output power).

Selling first:

PV power flow priority sequence: loads > grid > battery.
In this mode, the system exports any excess PV power after the loads are supplied. If the export power quota has been met, then the remaining PV power will be stored in the battery.
Notice: This mode should not be used if export power set to zero.

Off grid:

PV power flow priority sequence: loads > battery.
This mode only used when the system are not electrically connected to the grid at all. This mode is like Self-Use Mode, but the PV power will be curtailed if the PV power output is > battery power + load power.

Once quick setting finished, tap "Complete", the APP enter the homepage.

12 Completion

You have finished the initial installation.

You may use the Soliscloud APP to link the datalogger to your local router. Please refer to the datalogger installation manual for the detailed configuration.

13 Contact us

Ginlong Technologies Co., Ltd.

No. 57 Jintong Road, Binhai Industrial Park,
Xiangshan, Ningbo, Zhejiang, 315712, P.R.China.

Tel: +86 (0)574 6578 1806

Email: info@ginlong.com

Web: www.solisinverters.com