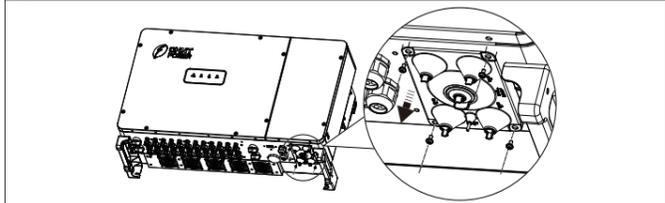
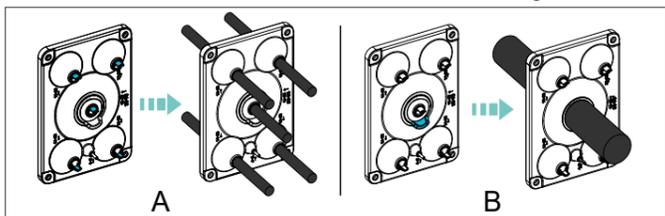


(2) Loosen the four screws to remove the AC sealing plate from the inverter.



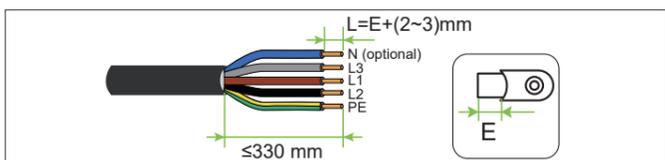
(3) According to cable types, pull off ring tab with hand or plier, and then route cable through the seal ring.

- For outdoor single-core cable, refer to figure A. NOTE: When using the middle seal ring for routing, route grounding wire through it rather than L1, L2, L3, or N wire.
- For outdoor four-core cable and five-core cable, refer to figure B.

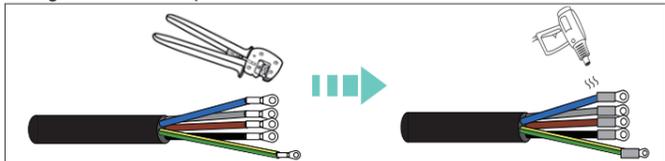


NOTICE The smallest seal ring of AC sealing plate is reserved. Remember its orientation before removing AC sealing plate and ensure it returns to the original position when recovering the board.

(4) Remove an appropriate length of the jacket and insulation layer from the AC output cable.

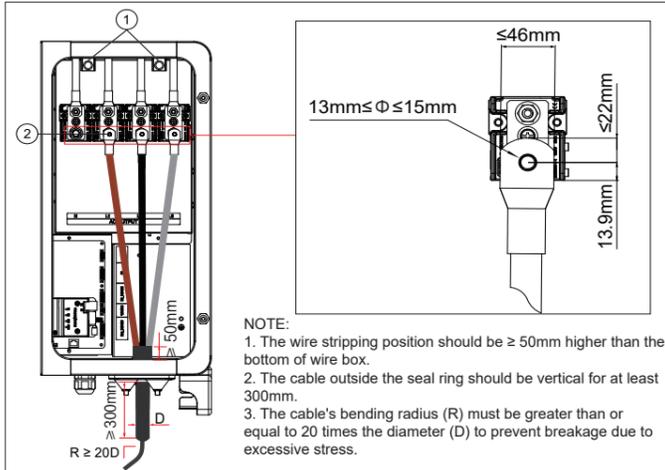


(5) Insert the exposed core wires into crimping area of OT/DT terminal, crimp them using hydraulic plier, then wrap the crimp areas with heat shrink tubing or insulation tape.



NOTICE Use copper terminals to match copper wires. Use Cu-Al bimetallic terminals or aluminum terminals with Cu-Al bimetallic washers to match aluminum wires. Ensure the washer's outer contour is no smaller than the OT/DT terminal's. The washers are prepared by customer, and it is recommended to purchase washers and terminals from the same manufacturer. Do not connect aluminum terminals directly to the terminal.

(6) Unplug the rubber plug (1) of transparent protection cover above the AC terminal block to remove the cover. Connect crimped OT/DT terminals to L1, L2, and L3 wiring studs (2) on the AC terminal block, tighten them with tapered washer combination nut.



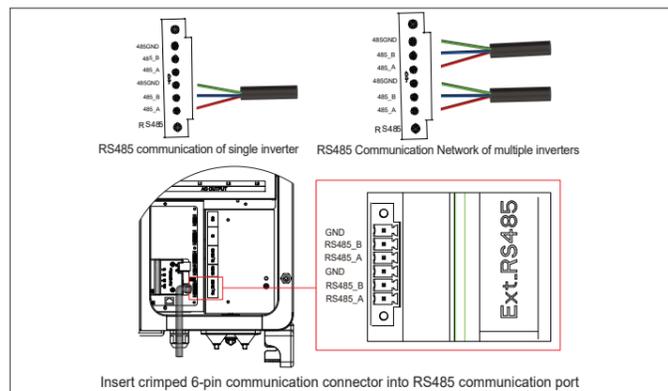
NOTE:
1. The wire stripping position should be ≥ 50 mm higher than the bottom of wire box.
2. The cable outside the seal ring should be vertical for at least 300mm.
3. The cable's bending radius (R) must be greater than or equal to 20 times the diameter (D) to prevent breakage due to excessive stress.

(7) Plug the rubber plug to fix the transparent protective cover to prevent accidental contact with the AC busbars.

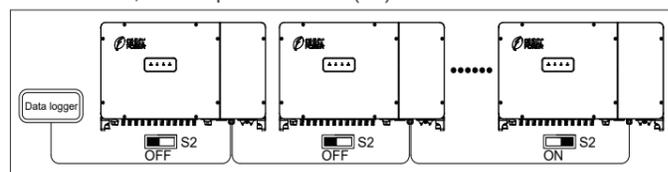
(8) Secure the AC sealing plate to inverter using its original screws.

3.4 Communication connection (optional)

1. Crimp communication cables into 6-pin connector according to the pin definition of communication board, as shown below.
2. Insert the 6-pin connector to communication board.



When the number of inverters in the network is large and the last inverter is more than 200m and less than 1000m from data logger, in order to improve communication quality, it is recommended to turn DIP switch (S2) of 120ohm terminal resistance on the communication board of the terminal inverter to ON, and keep DIP switches (S2) of all other inverters as OFF.



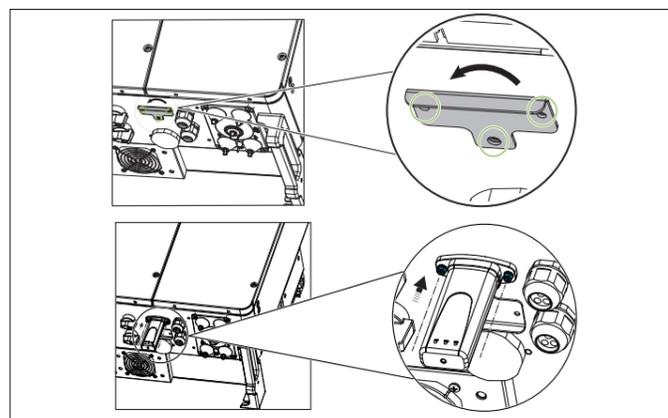
After completing all wiring steps, fix the two captive screws on the upper cover of the wire box, and lock the upper cover.

NOTICE Screw must be tightened when fixing the cover to prevent water problem.

3.5 Install LINKIT Module

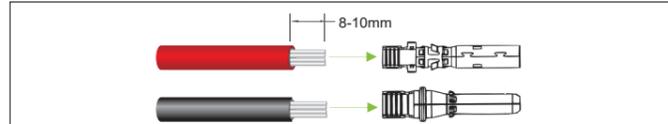
1. Remove 2 upper screws on the LINKIT cover, loosen the lower screw, then rotate the cover to expose the LINKIT communication interface.
2. Fasten LINKIT module onto communication interface with its original two upper screws (Indicators face front cover).

Tool required: No.2 Phillips head screwdriver. Torque: 1.6 N.m

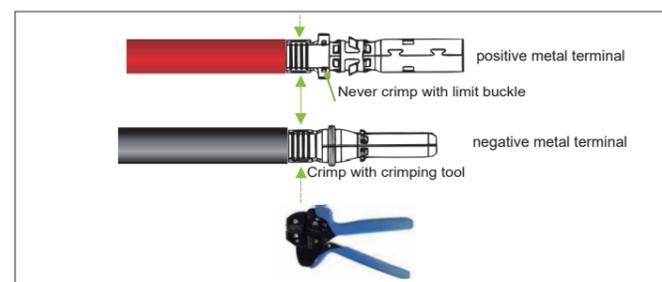


3.6 DC Wiring

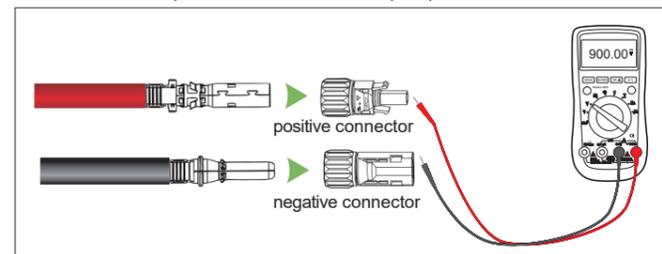
1. Remove an appropriate length of the jacket and insulation layer from the DC input cable of PV strings.



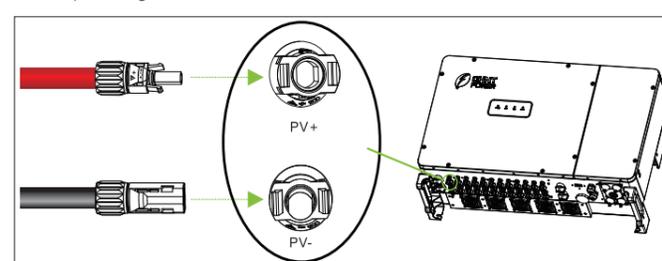
2. Insert the exposed areas of the positive and negative power cables into the metal terminals of the positive and negative connectors respectively and crimp them using a crimping tool, such as Amphenol H4TC0002 or Devalan D4ZCY001.



3. Insert the crimped positive and negative power cables into the corresponding positive and negative connectors until a "click" sound is heard. Tighten the locking nuts of the positive and negative connectors. Measure the voltage of every route strings using a multimeter. Ensure that the polarities of the DC input power cables are correct.



4. Insert the positive and negative connectors into their corresponding terminals of the inverter until a "click" sound is heard.



NOTICE Make marks on all positive and negative power cables to identify their correct strings (such as PV1+, PV1-, PV2+, PV2-). Make sure all strings are connected to corresponding ports according to port names printed on the device, to avoid wrong connection. Otherwise, it may result in device damages or property loss.

4. Display

4.1 LED Indicator



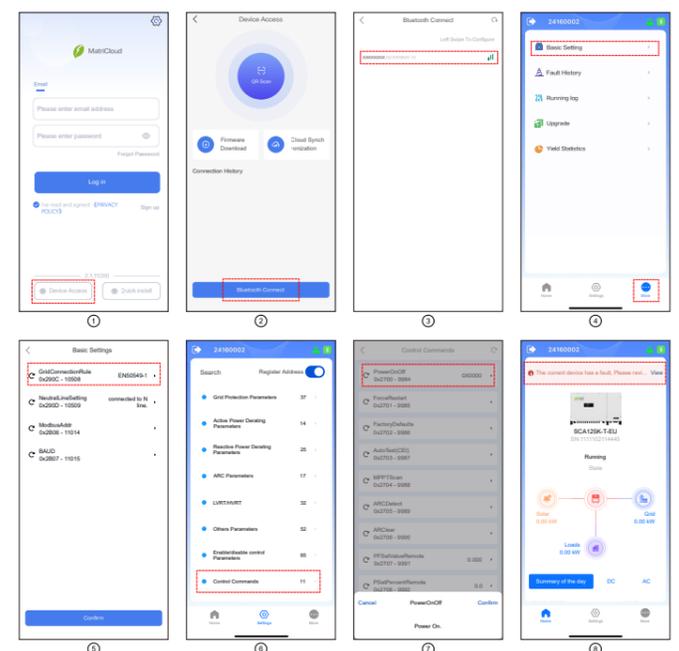
4.2 Description of Indicator

LED Icon	Name	Status	Meaning
POWER (Green)	Working Power Indicator	On	Has working power
		Off	No working power
RUN (Green)	Grid Operation Indicator	On	In the state of grid-connected power generation
		Flash	Derating operation status (on for 0.5 seconds, off for 1.6 seconds)
		Off	In other running state or no working power
GRID (Green)	Grid Status Indicator	On	Grid is normal
		Flash	The power grid is abnormal (on for 0.5 seconds, off for 1.6 seconds)
		Off	No power supply
FAULT (Red)	Fault Status Indicators	On	Permanent failure
		Quick Flash	General failure (on for 0.5 seconds, off for 0.5 seconds)
		Slow Flash	Alarm failure (on for 0.5 seconds, off for 2 seconds)
		Off	No fault or no working power supply
		4 LEDs	Upgrade status

5 Commissioning

WARNING Before PV system is powered on, it's important to check installation & wiring for any potential hazards.

1. Turn on AC circuit breaker.
2. Set the DC switch to ON position. When the solar array generates enough power, the POWER indicator will light up and the inverter will enter the self-check process.
3. Download App (users can directly scan the QR code to download App which can only support Android 4.4 and IOS 11.0 or higher version system).
4. Set APP as shown in the following figures.
 - ① Open MatriCloud App and click "Device Access".
 - ② Click "Bluetooth Connect".
 - ③ Click device number (Last 8 digits of SN on the COM module label) to access main interface.
 - ④ Click "More" on the main interface, select "Basic Settings".
 - ⑤ Configure the basic parameters, such as Grid Connection Rule, Neutral Line Setting, and others.
 - ⑥ Click "Settings" and input password "1111" to configure the register parameters. Note: Register parameters must be configured according to the communication protocol under the guidance of the engineer.
 - ⑦ You can power on or power off the inverter in the "Settings > Control Commands" interface.
 - ⑧ If a fault occurs, click the red text on the main interface to view the fault information, resolve the fault using the troubleshooting list in the user manual, restart the inverter, and recommission; if the fault persists, contact customer service for assistance.



6. Troubleshooting

CAUTION External fans are provided for the inverter. Periodically check and clean the inlets/outlets of the fans to ensure good dissipation. If any abnormal with a fan, replace it immediately.

Issue	Solution
No display	1. Check if the DC switch is in ON or OFF position. 2. If there is PV wire box, check the fuses and wire connections.
No feed-in power	1. Check if AC breaker is on. 2. Wait for strong sunlight. 3. Check if the number of PV strings is correct. 4. Operate as required by the inverter.
Inverter abnormal	1. Disconnect both AC and DC breakers. 2. Wait at least 10 minutes, then switch on AC and DC breakers. 3. Check if inverter is working properly.
Less feed-in power	1. Check if the inverter is exposed to direct sunlight or in an environment with poor ventilation. 2. Check if the heatsink is dusty or blocked or fan abnormal. 3. Check if there is enough installation distance between inverters.