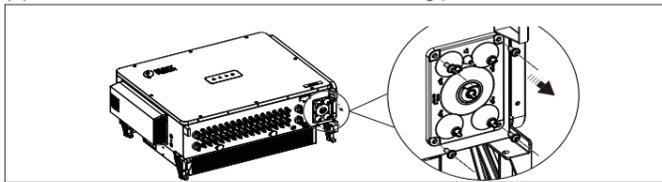
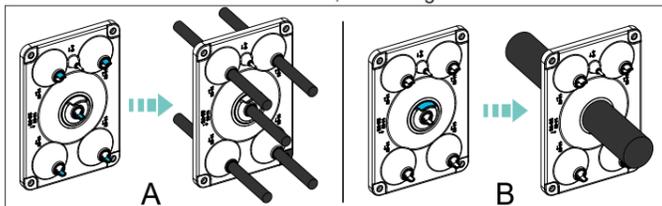


(2) Loosen four screws to remove the AC sealing plate from the inverter.



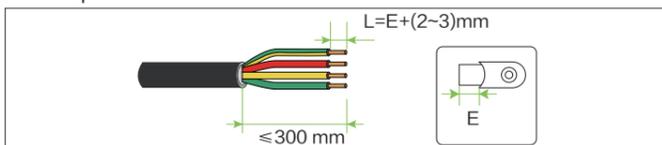
(3) According to cable types, pull off ring tab with hand or plier, and then route cable through the seal ring.

- For single-core outdoor wire, refer to figure A.
- NOTE: When using the middle seal ring for routing, route grounding wire through it rather than L1, L2, or L3 wire.
- For 3-core and 4-core outdoor wire, 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 sealing plate.

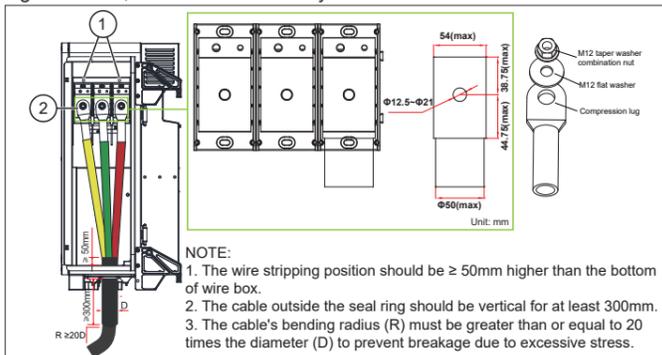
(4) Remove an appropriate length of the jacket and insulation layer from the AC output cable. Insert the exposed core wires into crimping area of the OT terminal, crimp them using hydraulic plier, then wrap the wire crimp area with heat shrink tubing or insulation tape. Here takes 4-core wire as an example.



(5) Unplug the rubber plug (1) of transparent protection cover above the AC terminal block, to remove the transparent protection cover.

Connect the OT terminals (2) of AC wires to L1, L2, L3 terminal and fasten them with M12 flat washer and M12 tapered washer combination nut. Note 1: Use copper compression lugs to match L1, L2, L3 copper wires. Use Cu-Al bimetallic compression lug or aluminum compression lugs to match L1, L2, L3 aluminum wires.

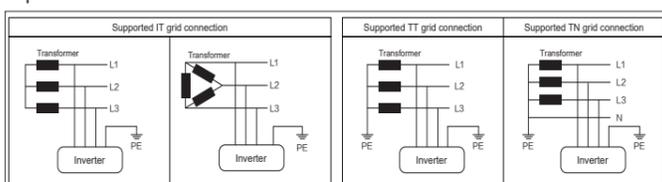
Note 2: M12 flat washer shall be used if inner hole diameter of compression lug is >14mm; while it's unnecessary if inner hole diameter is ≤14mm.



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

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

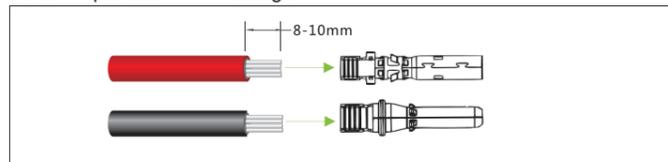
After completing all wiring steps, restore the support rod of side cover to its original position, and recover the side cover of wire box and tighten its captive screws.



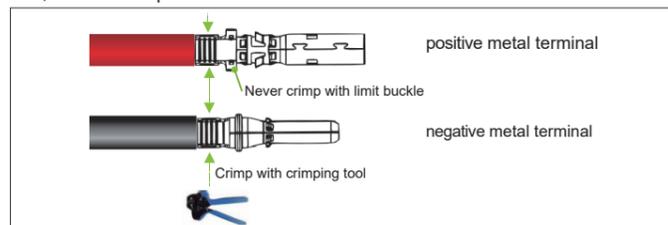
For IT power grid, neutral point at transformer low-voltage side can be ungrounded. PID and SVG functions can be enabled, but PidNight and SVG functions can't be enabled at the same time. For TT or TN power grid, neutral point at transformer low-voltage side shall be grounded. Only SVG function can be enabled, PID can't be enabled.

3. DC wiring

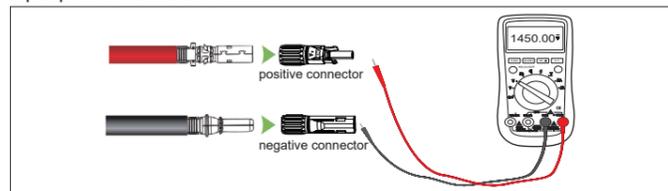
(1) Remove an appropriate length of the jacket and insulation layer from the DC input cable of PV strings.



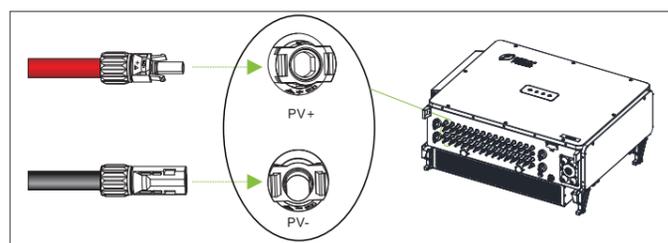
(2) Insert the exposed areas of positive and negative power cables into the metal terminals respectively and crimp them using a professional crimping tool, such as Amphenol H4TC0002 or Devalan D4ZCY001.



(3) Insert the crimped positive and negative power cables into corresponding positive and negative connectors until a "click" sound is heard. Tighten the locking nuts of the positive and negative connectors. Measure the cable ends of PV strings with a multi-meter. Make sure 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.

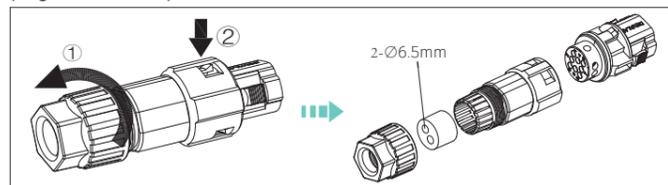


3.4 Communication Connection (optional)

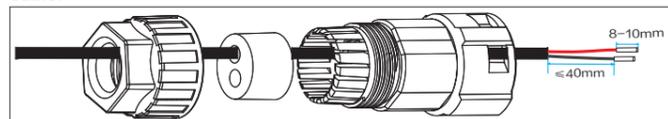
The inverter supports industry standard PLC, Modbus RS485, as well as CAN communication modes. We will introduce most commonly used RS485 and CAN communication methods in detail.

1. Install the 8-pin connector

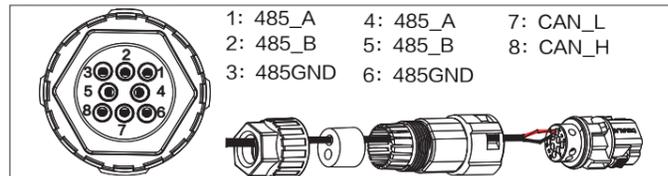
(1) Unscrew the locking nut (1) of 8-pin connector and press down both buckles (2) of connector to separate the cable seal ring and the crimping plug from the adaptor.



(2) Route cable through locking nut, seal ring and adaptor. Remove an appropriate length of the jacket and insulation layer from communication cable.

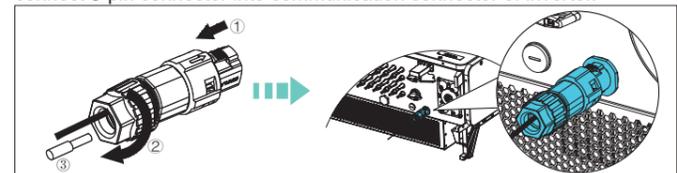


(3) Connect RS485 and/or CAN cables to correct crimping ports according to their definitions.



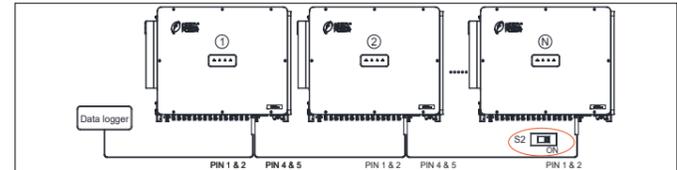
(4) Adjust the cable length, insert crimping plug (1) into adaptor and lock the locking nut (2). Plug any spare seal hole with watertight plug (3).

(5) Remove watertight cover from communication connector of inverter and connect 8-pin connector into communication connector of inverter.

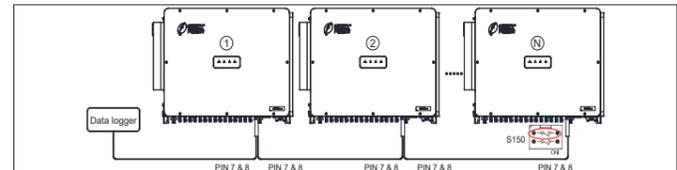


2. RS485/CAN Network Connection

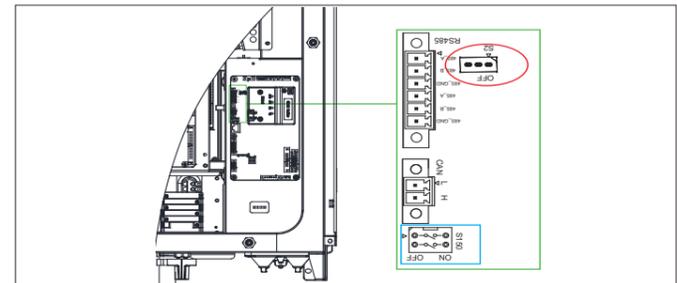
(1) If there are multiple inverters in the RS485 network (daisy chain) and the last inverter is more than 200m and less than 1000m distant from data logger, the DIP switch S2 of the last inverter should be set to ON position to enable the 120ohm terminal resistance. While the DIP switches S2 of all other inverters should keep as OFF position to disable the terminal resistance.



(2) If there are multiple inverters in the CAN network (daisy chain) and the last inverter is more than 200m and less than 1000m distant from data logger, the left switch S150 of the last inverter should be set to ON position to enable the 120ohm terminal resistance. While the left switches S150 of all other inverters should keep as OFF position to disable the terminal resistance.



(3) To achieve network connection, you need to open the front cover of the inverter. Then find the DIP switch S2 or left switch S150 on the communication board in the lower right corner of the inverter, as showed as below.



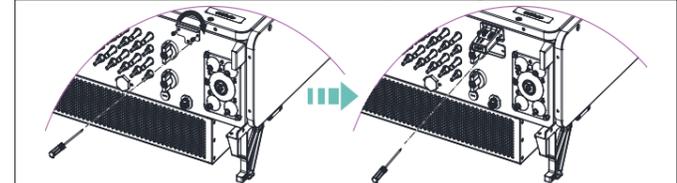
NOTE
1. Screw must be tightened when fixing the cover to prevent water intrusion
2. Bind cables at positions 300 ~ 350mm away from DC connectors and AC sealing plates. Otherwise, sagging or swaying cables may loosen the connectors or sealing plates, which may affect the protection degree of the inverter

3. Install LINKIT

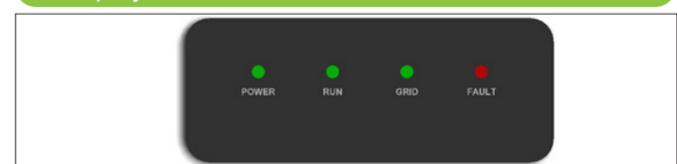
(1) Remove two screws on the LINKIT cover, and rotate the cover to its opposite side.

(2) Fasten LINKIT module onto LINKIT port with its original two screws (Indicators face front cover).

Tool: No.2 Phillips head screwdriver, Torque: 16.0 kgf.cm



4 Display

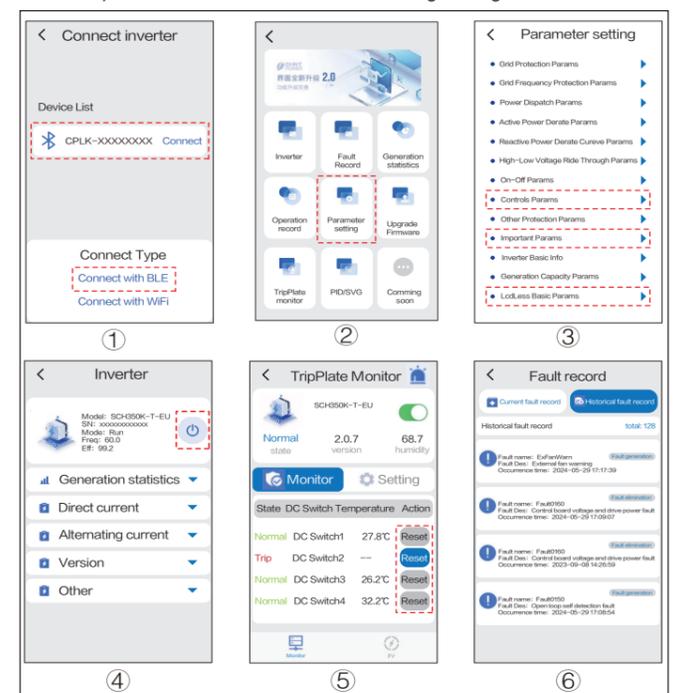


LED Icon	Name	Status	Meaning
POWER (Green)	Working Power Indicator	ON	Has working power
		OFF	No working power
RUN (Green)	Grid Operation Indicator	ON	In the state of grid-connected power generation
		Flash	Derating operation status (on for 0.5 seconds, off for 1.6 seconds)
		OFF	In other running state 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	Flash	LCD or DSP upgrading

5 Commissioning

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

- Turn on AC circuit breaker.
- 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.
- Users can directly scan the QR code to download APP (Support Android 4.4 and IOS 11.0 or higher version system only).
- Turn on phone's Bluetooth and make following settings.



- Open APP and click "Connect inverter" to enter connect inverter interface. Select wireless network "CPLK-XXXXXXX" created by system (see label on LINKIT module for "XXXXXXX") and click the right-hand "Connect" button, and select connect type such as "Connect with BLE" to enter the main interface.
- Click "Parameter setting" and input password 1111 to set key parameters.
- Click "Important Params" to confirm the right grid regulations. Click "Loadless Basic Params" to confirm the right system time, baud rate, ModbusAddr etc. You can also change other settings when necessary. Click "Controls Params", and then click "Power on".
- When the "RUN" indicator is on, the inverter is successfully connected to grid and starts to generate power. Click "Inverter" in main menu to view generation statistics, DC, AC, version and other information. Click the "Generation Statistics" icon to see generation statistics interface and generation data by hour/day/month. Click "Running Record" icon to see running record and running status information. For "Firmware upgrade", please contact after-sales service personnel. Click the upper-right button can power on/off inverter.
- When the DC switches trip, click "Trip Plate Monitor" for more information. If the DC switch state shows "Trip", do not reset the DC switch by yourself, please contact after-sales for support. Click "Setting" to set every tripping protection parameter. Click "PV" menu to view the current and voltage of every string.
- If the inverter cannot run, the "FAULT" indicator will light up and the fault information will be displayed on APP. Click "Fault record" in main menu to view current fault records and historical fault records. After eliminate the fault, repeat inverter commissioning. If fault still exists, please contact after-sales service.