

QUICK INSTALLATION GUIDE

Single-phase Grid-Tied Solar Inverter

Model 1 (Single MPPT):

- CPS SCA3KTL-PS3/EU
- CPS SCA3.6KTL-PS3/EU

Model 2 (Double MPPT):

- CPS SCA5KTL-PSM3/EU
- CPS SCA6KTL-PSM3/EU

Model 3 (Triple MPPT):

- CPS SCA7.5KTL-PSM3/EU
- CPS SCA8KTL-PSM3/EU
- CPS SCA10KTL-PSM3/EU

Version: 0.0

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1 PACKING LIST

| | | | | |
|----------|-------------------------------|-------------------------------|--|--|
| A | B | C | D | E |
| | | | | |
| 1x | Model 1 Model 2 Model 3 | Model 1 Model 2 Model 3 | 2x (Model 1 & Model 2) / 3x (Model 3) | 1x (Model 1) / 2x (Model 2) / 3x (Model 3) |
| F | G | H | I | J |
| | | | | |
| 2x | 1x | 1x | 1x | 1x |

A Inverter
B Mounting bracket
C AC output connector
D M6 Expansion screw
E PV connector group
F M6 Security screw
G Tightening/Removal tool for PV connector
H Wi-Fi module
I File package
J RS485 connector

2 DIMENSIONS & LOCATION

Model 1

Unit: mm

Model 2

Unit: mm

Model 3

Unit: mm

This document uses **Model 1** as an example.

- ☀️ ≤ 60 °C
- ❄️ ≥ -25 °C
- 💧 ≤ 100 %
- 📐 ≤ 15°

Unit: mm

3 INSTALLATION

④

Upward
M6
(2 to 2.5) N·m

⑤

⑥

2x M6 Security screw
3 N·m

4 GROUNDING

M4

| Items | Remark |
|-------------------|---|
| Screw | M4 X 12 mm; 1.2 N·m |
| OT Terminal | OT6-4 |
| Green-yellow wire | S(Green-yellow wire) ≥ S(PE line of AC cable) S is the cross-sectional area. |

⚠️ ⚡

Do not install cables with power on.

1.2 N·m

5 PV CONNECTION

⚠️

- Photovoltaic arrays exposed to sunlight will generate dangerous voltages!
- Before connecting the DC terminal, ensure that both the AC terminal and the DC terminal are powered OFF and the DC switch is OFF. Otherwise there is a risk of high voltage shock.

① Diameter (8 to 10) mm
Diameter (5 to 8) mm
Note: PV cable should be dedicated PV cable (suggest using (4 to 6) mm² PV1-F cable).

②

③

④

⑤

⑥ Positive Connector
Negative Connector

6 AC CONNECTION

⚠️

- Before connecting the AC terminal, ensure that both the AC terminal and the DC terminal are powered OFF and the DC switch is OFF. Otherwise there is a risk of high voltage shock.
- It is recommended to use outdoor dedicate cables with multiple copper cores.

Model 1

| | |
|-------------------------------------|--------------------------------|
| A. Diameter (mm) | 10 to 14 |
| B. Cross Section (mm ²) | ≤ 4 (Range) 2.5 (Recommend) |

① 1.0 ± 0.1 N·m
Tighten three screws and ensure each screw cap does not exceed the surface.

② 2.0 ± 0.5 N·m

③

④ 2.5 ± 0.5 N·m
Tighten nut to avoid loosening.

3 INSTALLATION

①

Upward

②

⚠️

⚠️

Ø: 10 mm
Depth: 60 mm

③

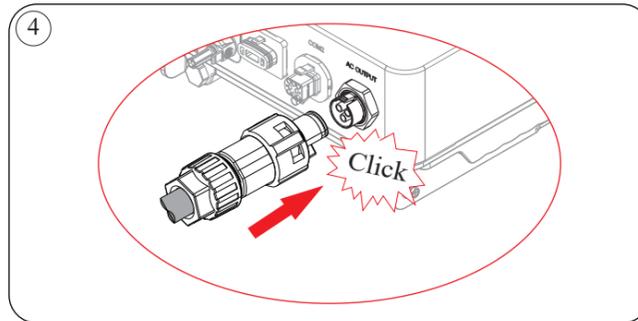
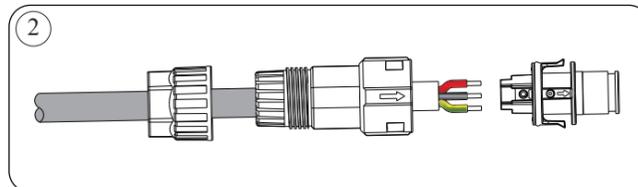
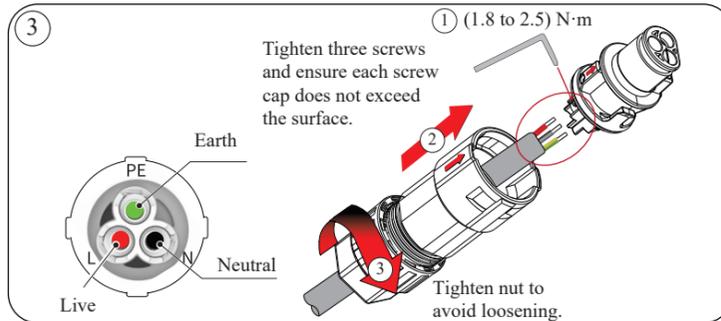
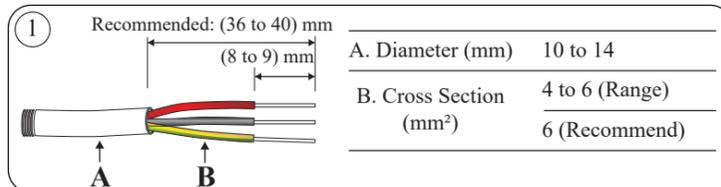
M6 Expansion screw, 2 sets;

6 AC CONNECTION

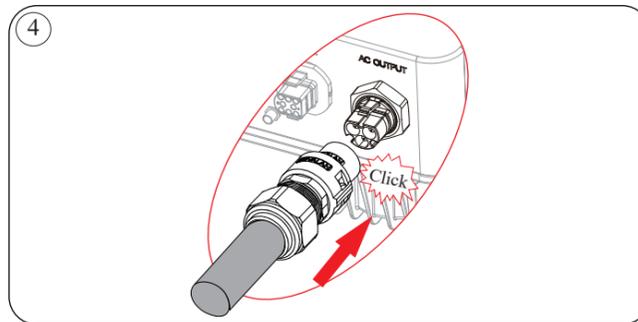
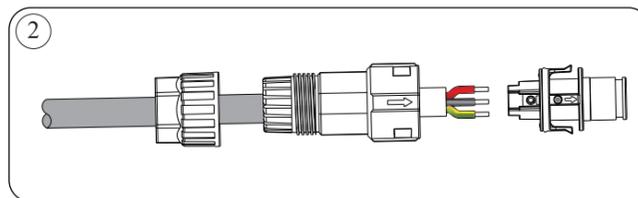
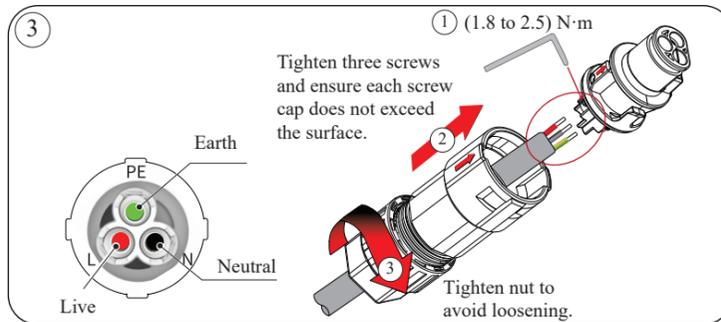
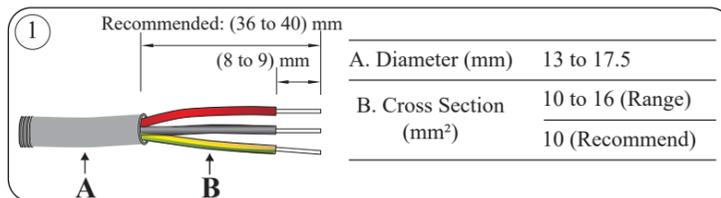


- Before connecting the AC terminal, ensure that both the AC terminal and the DC terminal are powered OFF and the DC switch is OFF. Otherwise there is a risk of high voltage shock.
- It is recommended to use outdoor dedicate cables with multiple copper cores.

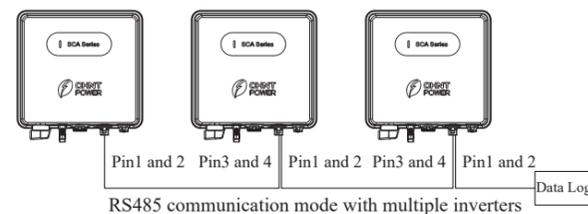
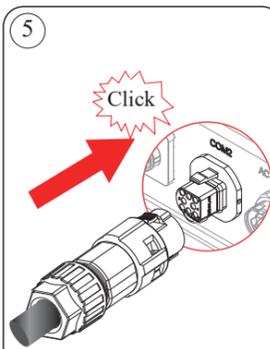
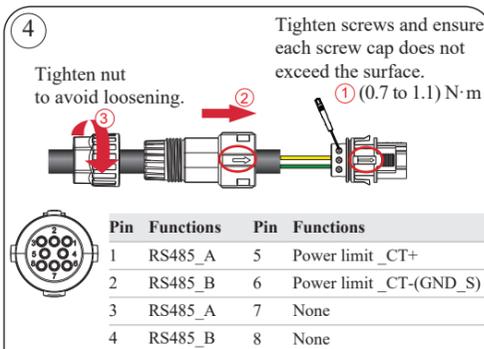
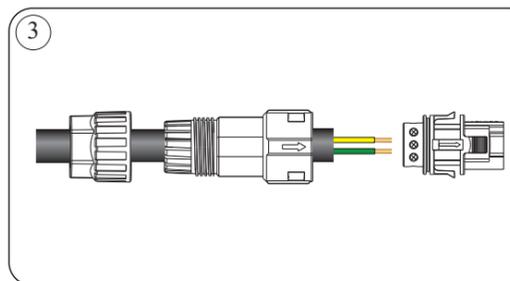
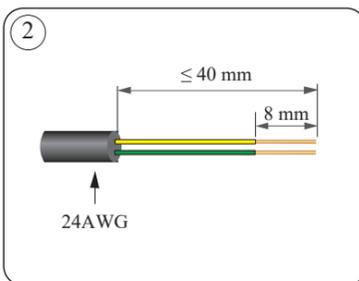
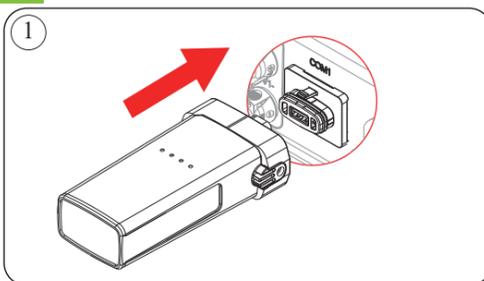
Model 2



Model 3



7 Wi-Fi MODULE INSTALLATION (COM1) & RS485 CONNECTION (COM2)



Connect the differential A and B signal wires of the first RS485 cable from the data logger to Pin1 and Pin2 of the 8-Pin terminal respectively. If there is more than one inverter, connect Pin3 and Pin4 to Pin1 and Pin2 of another inverter.

8 STARTUP / SHUTDOWN INVERTER

Inspection

- | No. | Items |
|-----|---|
| 1 | The inverter is firmly installed. |
| 2 | There is enough heat dissipation space, no external objects or parts left on the inverter. |
| 3 | It is convenient for operation and maintenance. |
| 4 | The wiring of the system is correct and firm. |
| 5 | Check whether the DC and AC connections are correct with a multimeter, and make sure there is no short circuit, break, or wrong connection. |
| 6 | Check whether the waterproof nuts of each part are tightened. |
| 7 | The vacant port has been sealed. |
| 8 | All safety labels and warning labels on the inverter are complete and without occlusion or alteration. |
| 9 | Do not compatible with rapid shutdown methods, devices, or systems. |

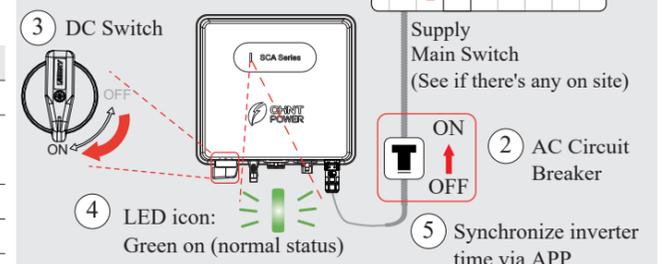


The installation of this equipment must comply with the current technical standards for photovoltaic electrical installations (NBR 16690) and fire risk management in photovoltaic systems (IEC 63226).

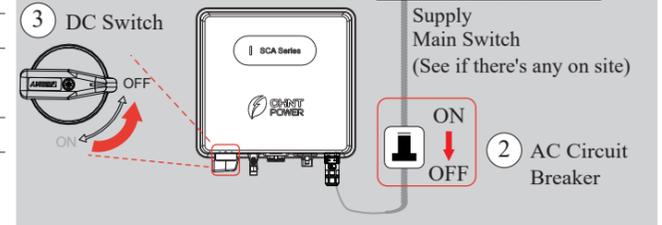


After the inverter is powered off, the remaining electricity and heat may still cause electrical shock and body burns. If need to disconnect the inverter cables, please wait at least 10 minutes before touching these parts of inverter.

Startup Inverter



Shutdown Inverter



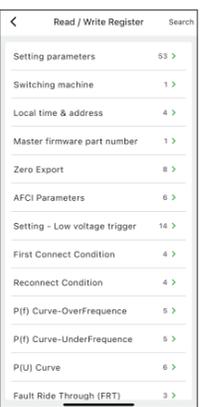
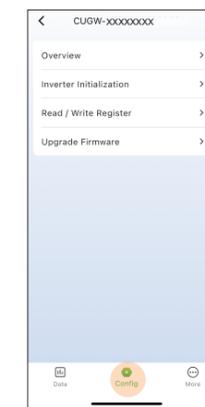
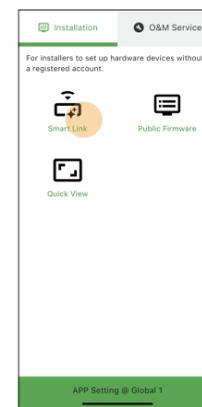
9 BLUETOOTH CONNECTION SETTING



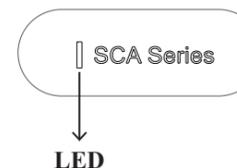
After the inverter is installed and powered on, please use the APP (Chint Connect) to connect via mobile phone Bluetooth to calibrate the time.



- Scan the QR code to download "Chint Connect" APP.
Note: Grant all access rights in all pop-up windows when installing the APP or setting your phone.
- Power on the inverter.
- Open Bluetooth function on your phone, then open the APP and operate as below:
 1. Touch "Smart Link" icon.
 2. Choose correct wireless network name (can be found on the WiFi module) from the Bluetooth List, it will connect to WiFi dongle.
 3. Click the "Device Settings" button to enter data page.
 4. Click "Config" and then click "Inverter Initialization" to set standard code and synchronize local time.
 5. Click "Read/Write Register", and then click the "Read" button to get current parameter values of the inverter. Then you can set or change "Setting parameters", "Zero Export" or other parameters if necessary. Now click "Overview" to see basic information.



10 DISPLAY



| Indicator | Status | Description |
|-----------|----------------------------------|----------------------------------|
| Red | On | Inverter is abnormal. |
| | Flash slow (1s) | AC is abnormal. |
| | Flash fast (0.25s) | Input side fault. |
| Green | On | Inverter runs normally. |
| | Flash slow (1s) | Standby before normal status. |
| Blue | On | Inverter power reduction. |
| | Red/Blue/Green flash in rotation | Updating firmware or self-check. |
| | Off | PV is unavailable. |