

QUICK INSTALLATION GUIDE

Single-phase Grid-tied PV String Inverter

CPS SCA7KTL-PSM/EU

CPS SCA7.5KTL-PSM/EU

CPS SCA8KTL-PSM/EU

CPS SCA10KTL-PSM/EU

Version: 0.0

Date: 21/10/2024

SHANGHAI CHINT POWER SYSTEMS CO.,LTD

Office Site: www.chintpower.com

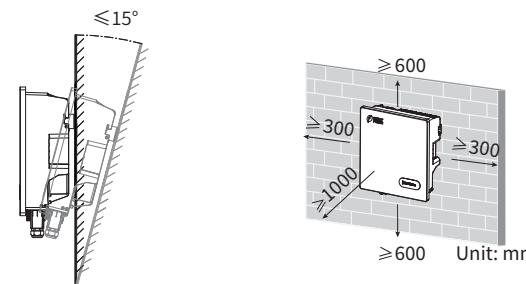
Customer Service Line: +86-21-37791222-866300

2 INSTALLATION LOCATION

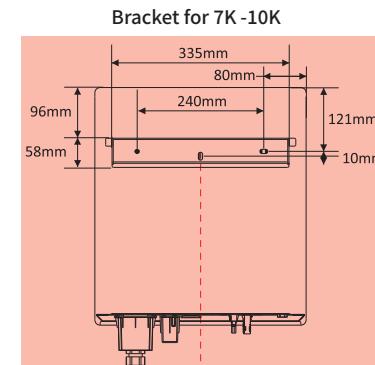
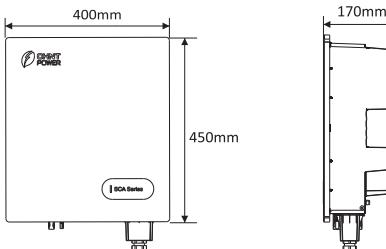
 $\leq 60^\circ$

 $\geq -25^\circ\text{C}$

 $\leq 100\%$



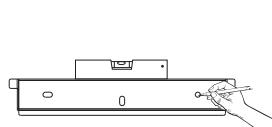
3 DIMENSIONS



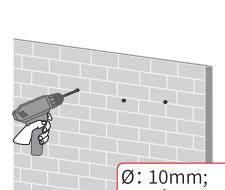
4 INSTALLATION



1. The walls must be fireproof and non-flammable materials, otherwise there is a fire risk.
2. Before drilling holes, check whether there are electric power pipes or other pipes buried in the walls to avoid risks.

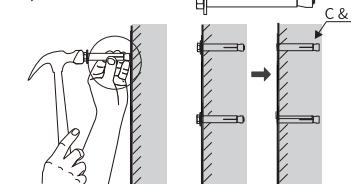


Set bracket horizontally.
Mark the holes position on the wall.

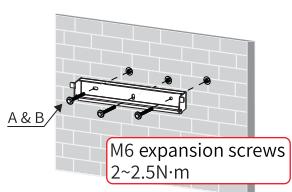


2 Drill the holes.

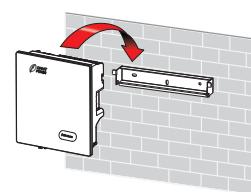
Expansion screw group (M6; 3 sets)



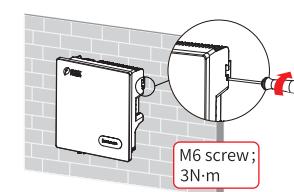
3 Install the expansion tubes.



4 Install bracket.



5 Install the inverter.

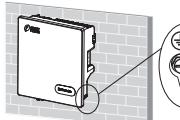
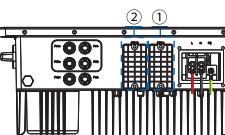


6 Tighten the M6 screw.

5 GROUNDING



1. According to regulations, the secondary protection grounding can't replace the PE terminal connection of the AC cable. Ensure that both are grounded reliably.
2. Ensure that inverter and all cables to be installed are completely powered off during whole installation and connection. Otherwise, fatal injury can occur due to the high voltage caused from AC and DC cables.



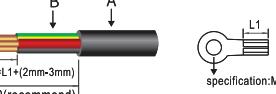
Items	Remark
Screw	M4 X 12mm; 1.2 N·m
OT Terminal	OT6-4
Green-yellow wire	S (Green-yellow wire) $\geq S$ (PE line of AC cable) S is the cross-sectional area.

Note: ① is for WiFi/4G communication
② is for RS485 communication

6 AC CONNECTION



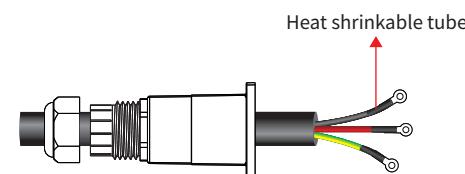
Before connecting the AC terminal, ensure that both the AC terminal and the DC terminal are powered off and the DC switch is OFF. Otherwise there is a risk of high voltage shock.



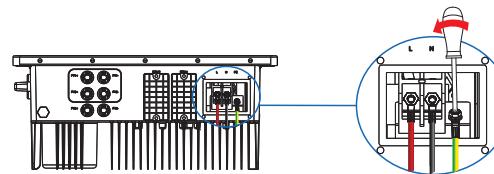
It is recommended to use outdoor dedicated cables with multiple copper cores.

No.	Name	Model	7K-10K
A	Wire outer diameter (mm)	14-20	
B	Cross-sectional area (mm ²)	Range Recommended	8-14 8

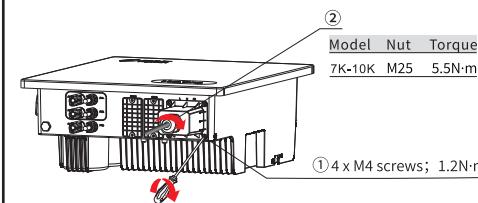
1 Wires making.



2 Wires threading and pressing.



3 Lock the AC cable to the corresponding AC terminal.

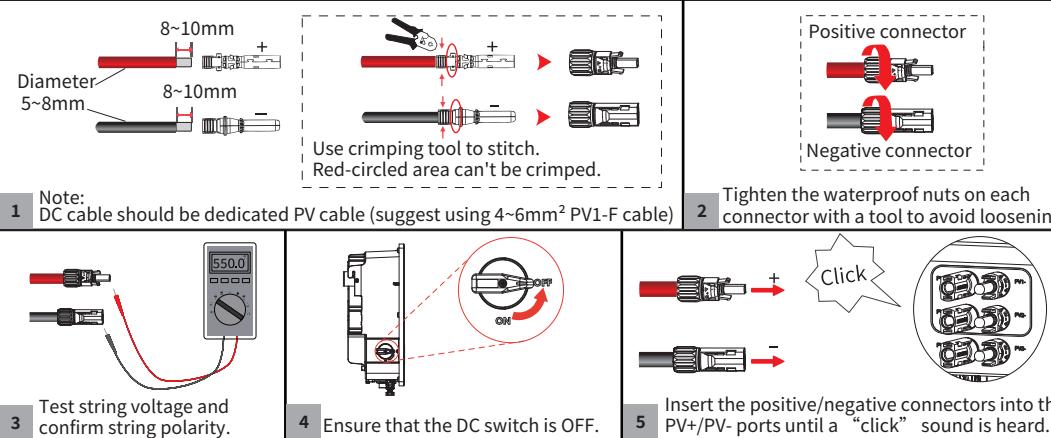


① Align the AC cover with the 4 holes and tighten it firmly with 4 x M4 screws.
② Fasten the nut (waterproof cap).

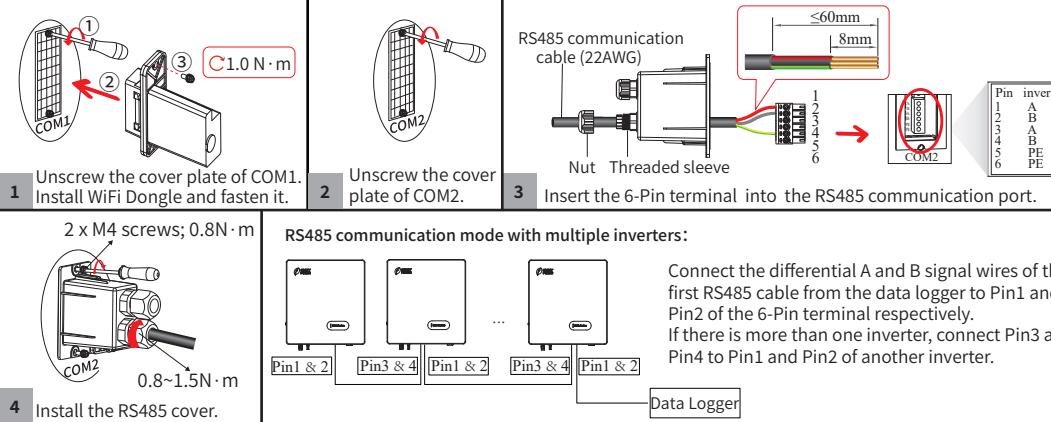
7 PV CONNECTION



1. Photovoltaic arrays exposed to sunlight will generate dangerous voltages!
2. 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.



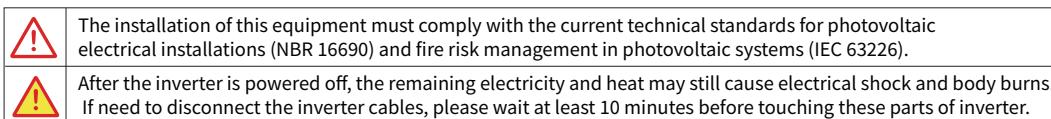
8 WiFi INSTALLATION (COM1) & RS485 CONNECTION (COM2)



9 STARTUP / SHUTDOWN PROCEDURE

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 ensure 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.



10 BLUETOOTH CONNECTION SETTING



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



1. 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.

2. Install WiFi module into the COM1 port of the inverter.

3. Power on the inverter.

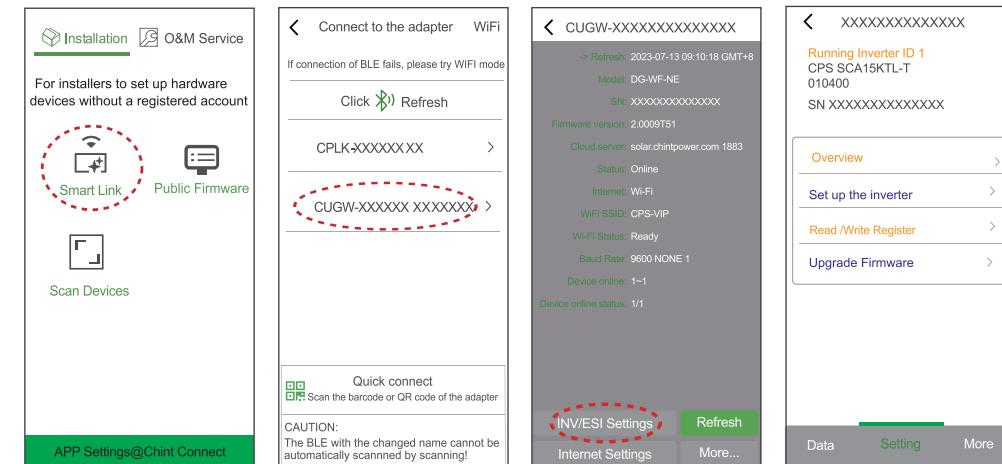
4. Open Bluetooth function on your phone, then open the APP and operate as below.

4-1. Touch "Smart Link" icon to enter smart link interface and then click "Next" button to enter "Connect to the adapter" interface.

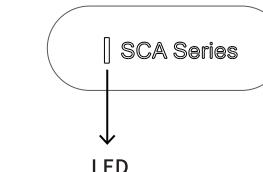
4-2. Choose correct wireless network name (can be found on the WiFi module) from the Bluetooth List, it will connect to WiFi dongle.

4-3. Click "INV/ESI settings" button to enter inverter setting page.

4-4. Click "Set up the inverter" to set standard code and synchronize local time. Click "Read/Write Register" and then "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.



11 DISPLAY



LED status

Red/green/blue light up in turn

Explanation

1. Inverter firmware updating
2. Initial status of power-on

Blue blinks slowly (1s/time)

Standby

on

Normal status

Green on

Power limited status

Red blinks slowly (1s/time)

Output side fault

on

Input side fault

on

Inverter internal fault

As the technology is constantly updated and improved, the illustrations in this document are for reference only. Contents including illustrations in this document are subject to change without notice.