

# QUICK INSTALLATION GUIDE

Single-phase Grid-tied PV String Inverter

CPS SCA3KTL-PS2/EU  
CPS SCA3.6KTL-PS2/EU

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## 1 Packing List

① Inverter	② Mounting bracket
③ AC output connector	④ File package
⑤ DC terminal connector group	⑥ M6 screw
⑦ Expansion screw group	⑧ Removal tool for PV connector
⑨ Wi-Fi	⑩ RS485 connector

## 2 Location

$\leq 60^{\circ}\text{C}$   
 $\geq -25^{\circ}\text{C}$   
 $\leq 100\%$

Unit:mm

## 3 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.

1 Set bracket level. Mark the holes position on the wall.  
 2 Drill the holes.  $\phi: 10\text{mm};$  Depth: 60mm  
 3 Don't apply too much strength to avoid damaging the expansion tubes. Install the expansion tubes.  
 4 M6 Expansion screws 2~2.5N·m  
 5 Hang the inverter on the bracket. After the machine is mounted on the bracket, push the inverter to the right.  
 6 1 x M6 screw 2.5~3N·m

## 4 Grounding

**DANGER** Ensure that inverter and AC and DC cables are completely powered off during whole installation and connection. Otherwise there is a risk of high voltage shock.

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

## 5 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.

1 Diameter (mm) 10~14  
 2 Cross Section (mm<sup>2</sup>) ≤4  
 2.5(Recommended)

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

2.0±0.5N·m  
 2.5±0.5N·m  
 Tighten nut to avoid loosening.

1 Insert the connector to the AC OUTPUT port.  
 2 Turn knob to locked-in position (as shown above).

## 6 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.

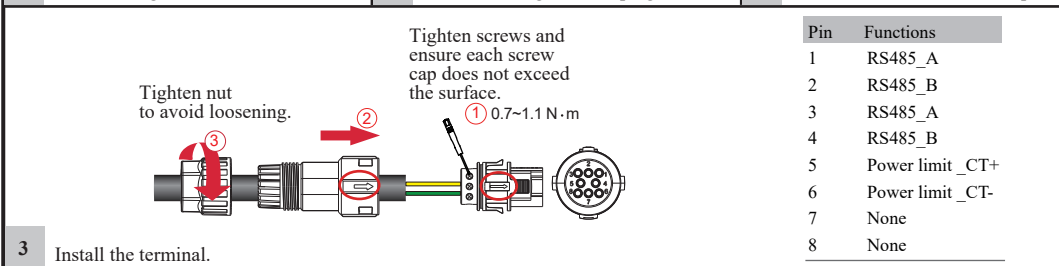
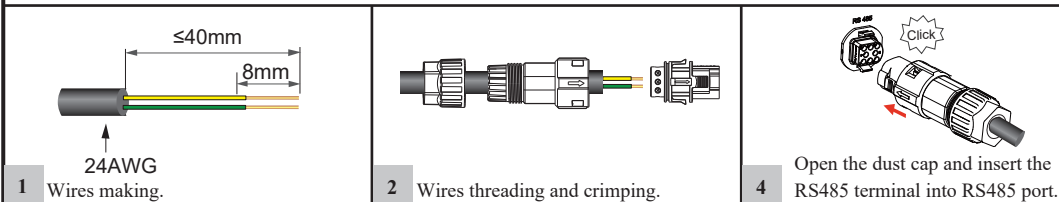
1 PV cable should be dedicated PV cable (suggest using 4~6mm<sup>2</sup> PV1-F cable).  
 2 Tighten the waterproof nuts on each connector with a tool to avoid loosening.

3 Test string voltage and confirm string polarity.

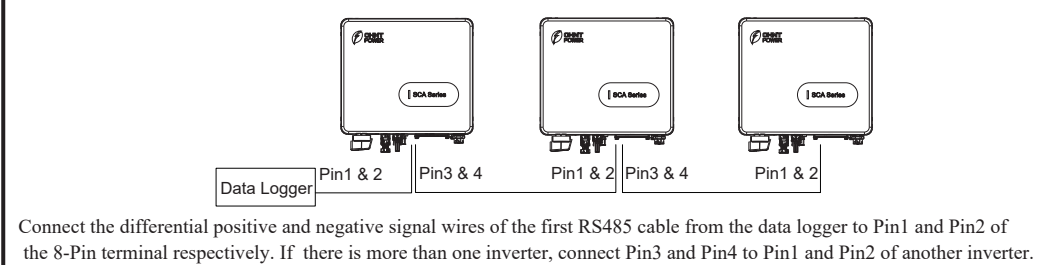
4 Ensure that the DC switch is OFF.

5 Insert the positive/negative connectors into the PV+/PV- ports until a "click" sound is heard.

## 7 RS485 Connection



### RS485 communication mode with multiple inverters

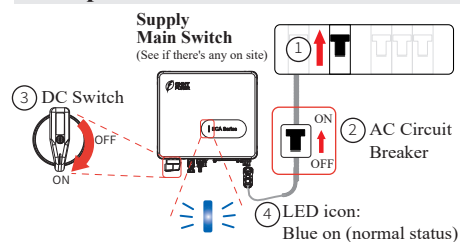


## 8 Startup / Shutdown Procedure

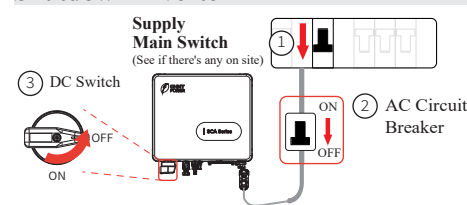
### Inspection

- | 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 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.   |

### Startup Inverter



### Shutdown Inverter



- 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.

## 9 Bluetooth Connection Setting

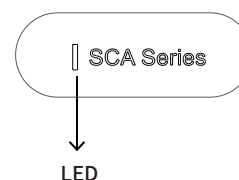
**NOTICE** After the inverter is installed and powered on, please use the APP (Chint Connect) to connect to the mobile phone Bluetooth to calibrate the time.



- 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.
- Install WiFi module into the COM1 port of the inverter.
- Power on the inverter.
- 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.



## 10 Display



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

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