

04 Mounting the Inverter

Lift the inverter, hang the back rail on the fixed wall bracket carefully. Fix the grounding terminal to the PE wire with a proper tool and lock the grounding terminal to the grounding hole in the lower right side of the inverter.

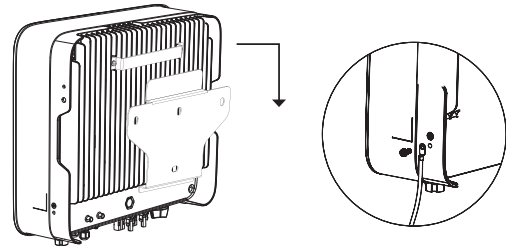


Figure 6 Mounting the inverter

05 DC Connector Assembly Procedure

Use a 2.5-4mm² PV cable, strip off the cable sheath for 7mm, insert the stripped head into the metal terminal and use a crimping plier to press it tight, insert the metal terminal into the corresponding PV connector and tighten the nut.

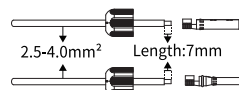


Figure 7 Strip off the cable sheath

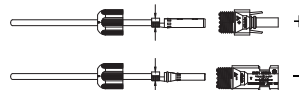


Figure 8 Press the metal terminal

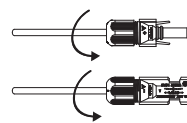


Figure 9 Tighten the DC connector

06 DC Connector Connection

Insert the positive and negative connectors into the inverter PV connectors respectively.

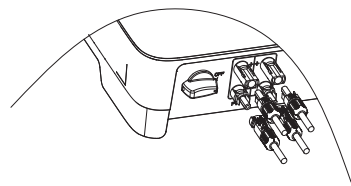


Figure 10 DC connector connection



Note

- ① Disconnect the AC breaker on the grid side when connecting the PV connectors.
- ② The DC switch must be switched to "OFF".
- ③ Seal the unused PV terminals with the terminal caps.

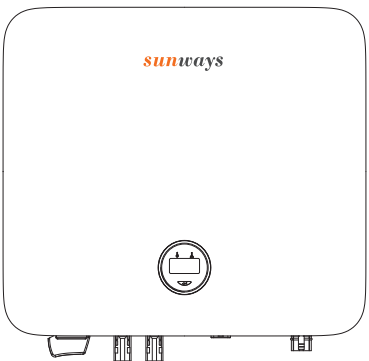
GRID-CONNECTED PV INVERTER

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QUICK INSTALLATION GUIDE

STS 3~6KTL-SE
Grid-connected PV Inverter
Single Phase Dual MPPT

Sunways Technologies Co.,Ltd.
S11-00091-00

Part 1 Inverter installation and wiring

01 Packing List

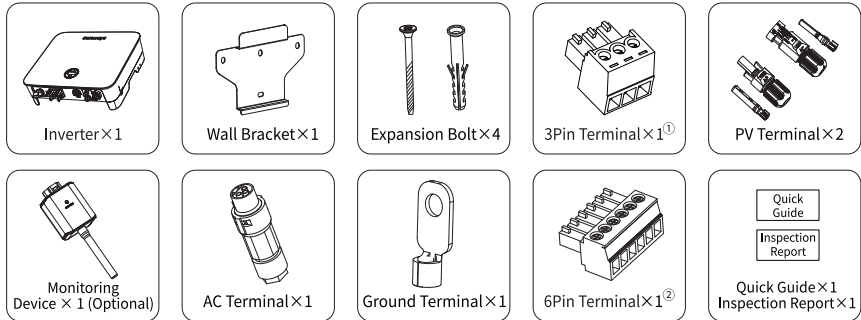


Figure 1 Packing list

Note

- ① Export limitation & control version 2pcs; RS485 and DRED version 1 pcs (This connector already pre-installed inside the inverter).
- ② DRED version only (This connector already pre-installed inside the inverter).
- ③ The AC terminals of STS-3~6KTL-SE and STS-7~11KTL are similar but not exactly same, do not mix them, Sunways has the right to refuse all damages caused by the mixed-use of terminals.

02 Installation Spacing and Angle

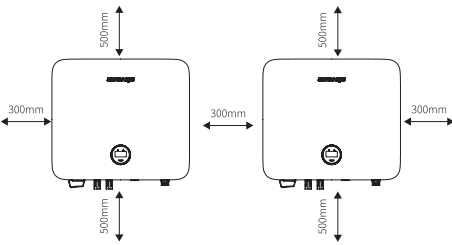


Figure 2 Recommended installation spacing

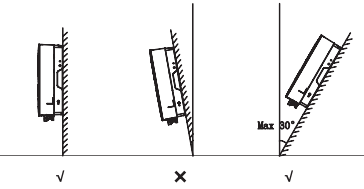


Figure 3 Recommended installation angle

03 Wall bracket installation

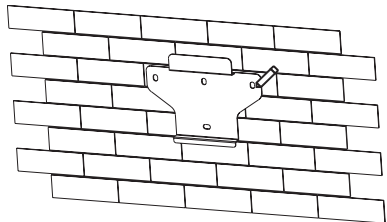


Figure 4 Mark the holes on the wall

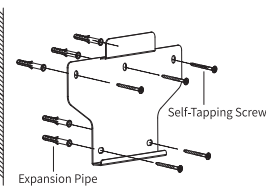


Figure 5 Fix the wall bracket

07 AC Connector Assembly

Strip off the AC cable sheath for 50mm, and strip off the end of L/N/PE each cable for 8mm.

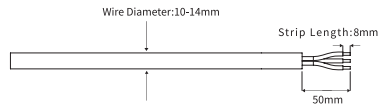


Figure 11 Recommended AC cable info

Insert the stripped end of L/N/PE cable into the AC terminal head. Tighten the screws in the terminal with Allen key to ensure a reliable connection.

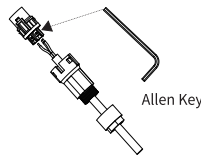


Figure 12 AC connector assembly

08 AC Connector Connection

Connect the AC connector to the inverter AC terminal, and rotate the AC connector buckle clockwise until it's tight enough.

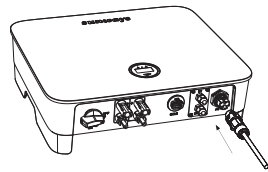


Figure 13 AC connector connection

An AC breaker must be connected on the AC side of the inverter. The recommended AC cable and breaker for Sunways STS 3-6KTL-SE series single phase inverters are shown in the following table:

Model	Cable	Breaker
STS-3KTL-SE	4mm ²	20A
STS-3.6KTL-SE	4mm ²	25A
STS-4KTL-SE	4mm ²	32A
STS-4.6KTL-SE	4mm ²	32A
STS-5KTL-SE	6mm ²	40A
STS-6KTL-SE	6mm ²	40A

09 Monitoring Device Installation

Plug the WiFi, LAN, 4G or GPRS module into the COM1 port in the bottom of inverter. A slight "click" sound during the installation represents that the assembly is in place.

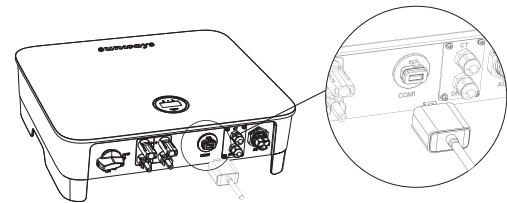


Figure 14 Monitoring device installation

- ① The 4G and GPRS version module does not need to be configured.
- ② The WiFi version module needs to be configured to the router for the first installation. If the router name or password is changed, the WiFi dongle will need to be reconfigured. For details, please refer to the [WiFi module configuration guide] which is below to this document.
- ③ If DHCP is enabled on the router, the LAN version module does not need to be configured. Otherwise, please refer to the [LAN module configuration guide] which is below to this document.

10 Start the Inverter

1. Turn on the AC breaker first (close the AC circuit breaker).
2. Turn on the DC switch in the bottom. If the PV string voltage higher than the inverter start-up voltage, the inverter will start.
3. When both AC and DC power supply are normal, the inverter is ready to start. The inverter will initiate checking its internal parameters and grid parameters, if it is within the range, the green light on the left side of the screen begins to flash, and the "Waiting" message will be displayed on the OLED display.
4. After self-checking completed, the inverter will start generating electricity, the green light will remain on, and the OLED display will display real-time power information.

Part 2 Monitoring Device Configuration Guide

01 WiFi module configuration guide

1. WiFi module configuration.

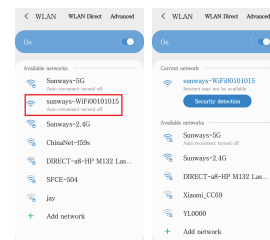


Figure 15

2. Open the browser and browse 10.10.100.254, you will see the following picture, input the username and password "admin" and click "Sign in".



Figure 16

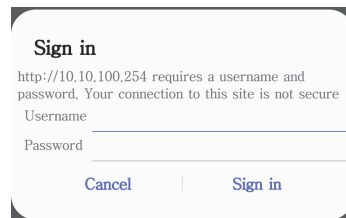


Figure 17

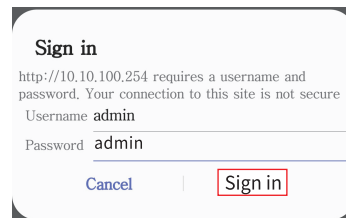


Figure 18

3. You will enter the interface "System".

Note: Click the "Chinese/English" in the upper right corner to switch the interface language.



Figure 19

5. Select the WiFi that you are going to connect and click "OK".

Note: Only support 2.412GHz-2.484GHz router at present.

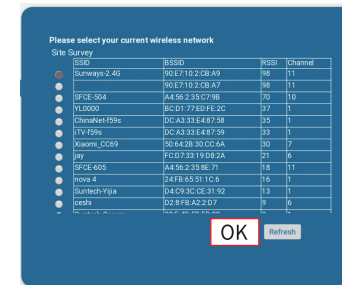


Figure 21

7. Input the password in the blank and click "Save".

Note: Password is case sensitive.



Figure 23

4. Click "STA Setting" to enter the WiFi configuration interface, and click "Scan" a list of WiFi network will show up.

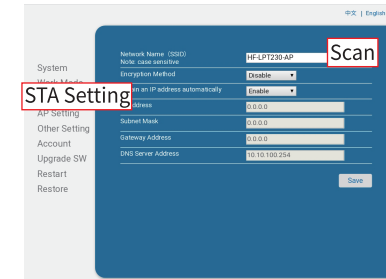


Figure 20

6. Now, a notice will pop-up and reminds you to input the WiFi password, click "OK".

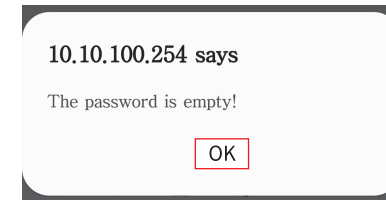


Figure 22

8. The system will show "Saved Successfully!" click "Restart" to complete the WiFi configuration.

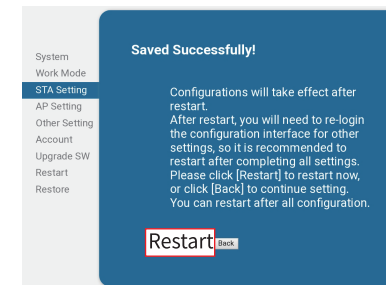


Figure 24

9. After the configuration succeeded, the indicator on the WiFi module will be always on.

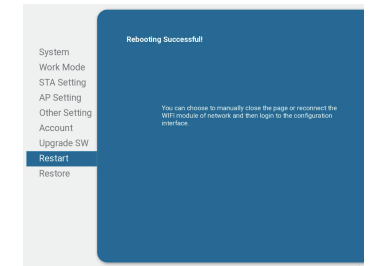


Figure 25

02 LAN module configuration guide

If DHCP is disabled on the router, the LAN version module will need to be configured on inverter screen.

1. Find the "General Settings" by short pressing the button on the inverter screen.
2. Enter the "General Settings" by long pressing the button on the inverter screen.
3. Find "DHCP set" by short pressing the button, then turn off DHCP function by short pressing and long pressing the button on the inverter screen.
4. Then set the "IP Address", "Gateway Address", "Subnet Mask" and "DNS Address" by short pressing and long pressing the button on the inverter screen.

