

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.

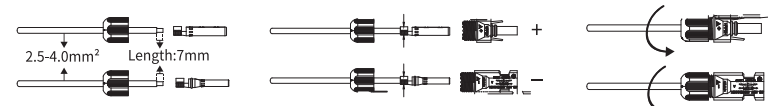


Figure 7 Strip off the cable sheath Figure 8 Press the metal terminal Figure 9 Tighten the DC connector

06 DC Connector Connection

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



Note

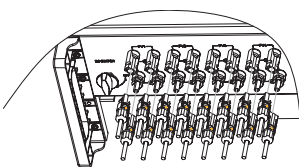


Figure 10 DC connector connection

- 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

07 AC Connector Assembly Procedure

peel the insulation sleeve of AC cable off for 95~100mm, and peel off the end of 3L /PE/ N wires for 20~25mm, as shown in Figure 11:

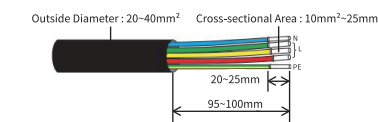


Figure11 Recommended AC cable info

Thread the stripped wire into the lock nut and the main body in turn (the flexible wire needs to be riveted to the insulated terminal), as shown in Figure 12:



Figure12 AC connector assembly

GRID-CONNECTED PV INVERTER

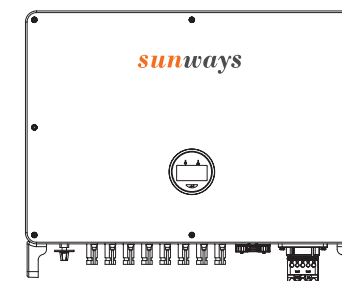
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QUICK INSTALLATION GUIDE

STT 30~60KTL Series
Grid-connected PV Inverter
Three-phase Four MPPT

Sunways Technologies Co.,Ltd.
S11-00041-00

Part 1 Inverter Installation and Wiring

01 Packing List

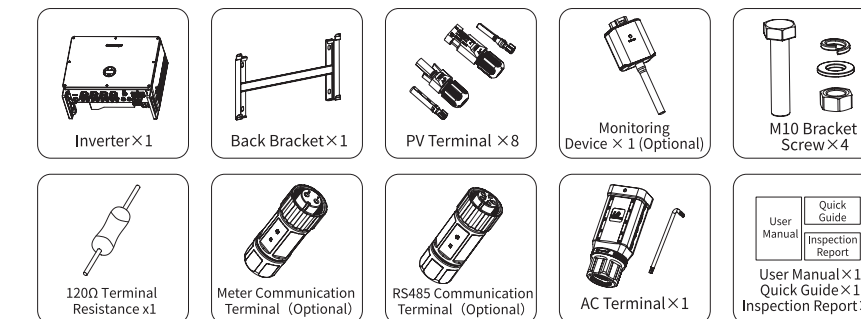


Figure 1 Packing list

02 Installation Spacing and Angle

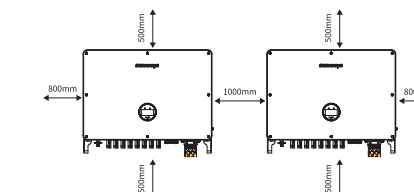


Figure 2 Recommended installation spacing

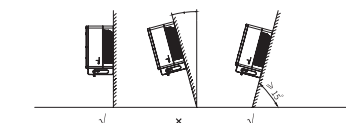


Figure 3 Recommended installation angle

03 Wall Bracket Installation

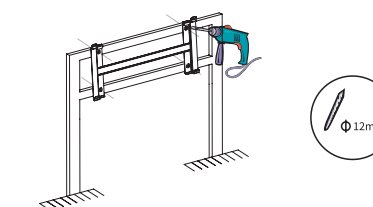


Figure 4 Mark the holes on the wall

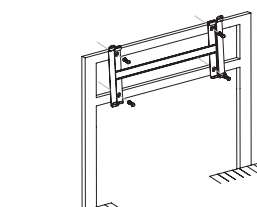


Figure 5 Fix the wall bracket

Mounting the Inverter

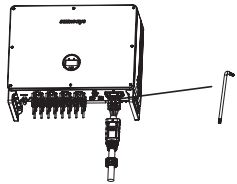
Lift the inverter, hang the back rail on the fixed wall bracket carefully. Fix the grounding terminal to the PE wire with a proper tool and lock the grounding terminal to the grounding hole in the lower right side of the inverter.

08 AC Connector Connection

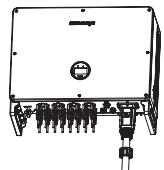
An AC breaker must be connected on the AC side of the inverter. The recommended AC cable and breaker for Sunways STT 30-60KTLseries three-phase inverters are shown in the following table:

Model	Inverter Rated Output Voltage	AC Breaker Rated Voltage	AC Breaker Rated Current
STT-29.9KTL	400V	400V	63A
STT-30KTL	400V	400V	63A
STT-33KTL	400V	400V	63A
STT-36KTL	400V	400V	80A
STT-40KTL	400V	400V	80A
STT-45KTL	400V	400V	100A
STT-50KTL-M	400V	400V	100A
STT-60KTL-M	400V	400V	125A
STT-40KTL-HV	500V	690V	63A
STT-50KTL-HV	500V	690V	80A
STT-60KTL-HV	500V	690V	100A

(1) Insert the cable into the rubber core in the wire sequence, and observe whether the cable is plugged in place through the perspective hole, and finally crimp it with a screwdriver.



(2) Insert the flat cable of the display back to its place and put back the right roof cover and lock with its original screws.



(3) Tighten the nut with an opened wrench and complete the installation with a "click, click, click".

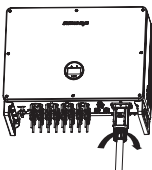


Figure 13 AC connector connection

09 Monitoring Device Installation

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

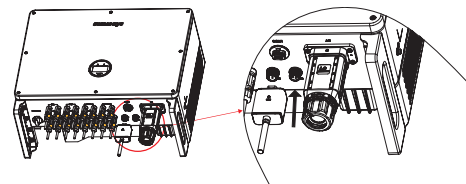


Figure 14 Monitoring device installation

 Note	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 are 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 at the bottom. If the PV input 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.

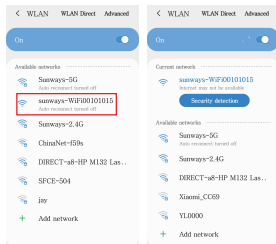


Figure 15

A. Insert the WiFi module into the COM port at the bottom of the inverter and power on the inverter, and the indicator on the module is off now.

B. Prepare a laptop or Smartphone and turn on the WLAN connection.

C. Search for the WiFi name "sunways-WiFi*****" which released by the module (*represents the last 8 numbers of the inverter SN) and click the WiFi name.

D. WiFi connection succeeded as shown in 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".

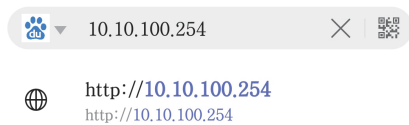


Figure 16

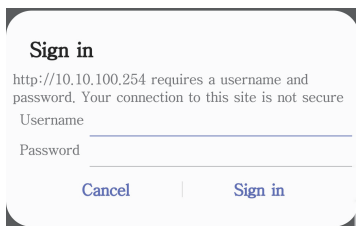


Figure 17



Figure 18

3. You will enter the interface "System".

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

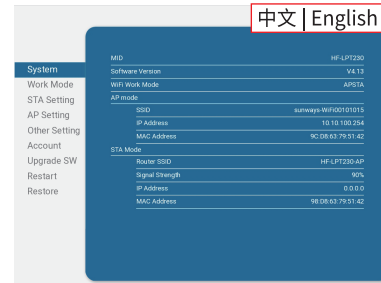


Figure 19

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

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

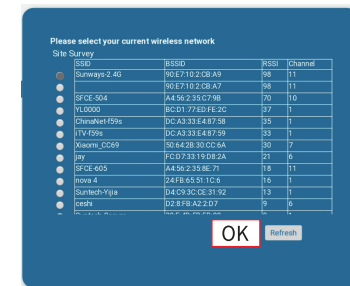


Figure 21

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

Note: Password is case sensitive.

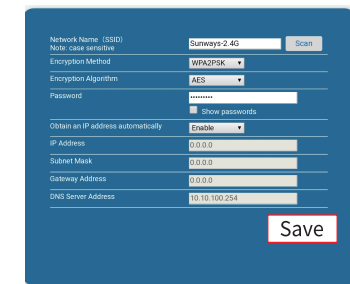


Figure 23

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

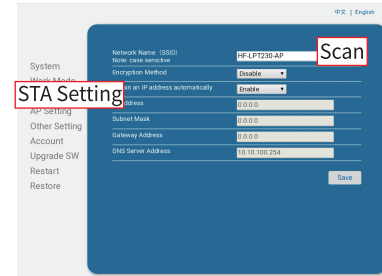


Figure 20

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

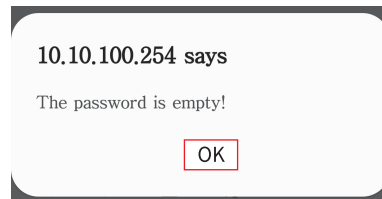


Figure 22

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

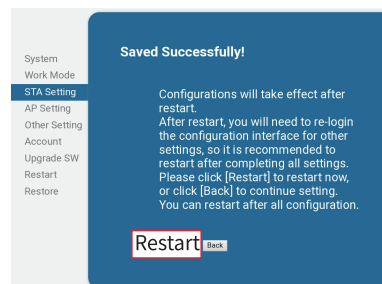


Figure 24

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

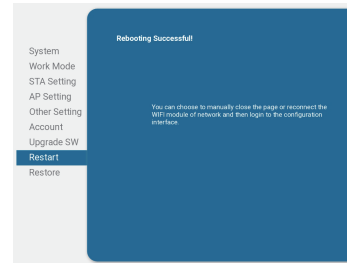
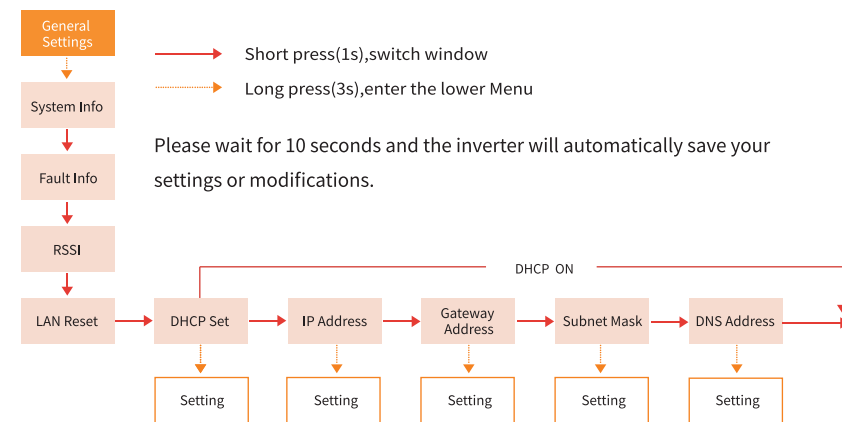


Figure 25

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.



Short press(1s),switch window
Long press(3s),enter the lower Menu

Please wait for 10 seconds and the inverter will automatically save your settings or modifications.