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.

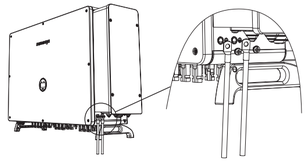

Figure 6 Mounting the inverter

05 DC Connector Assembly Procedure

Use a 2.5-4mm² PV cable, strip of 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.

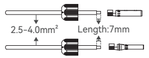

Figure 7 Strip of the cable sheath

Figure 8 Press the metal terminal

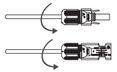

Figure 9 Tighten the DC connector

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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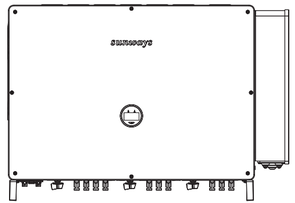
sunways



QUICK INSTALLATION GUIDE

STT 100~150kW Series
Grid-connected PV Inverter
Three Phase Ten MPPT

Sunways Technologies Co.,Ltd.
S11-00105-00 V01

Part 1 Inverter installation and wiring

01 Packing List

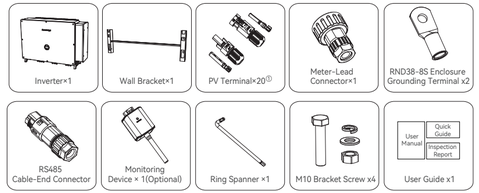


Figure 1 Packing list

02 Installation Spacing and Angel

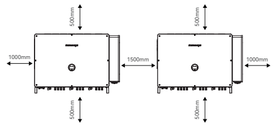


Figure 2 Recommended installation spacing

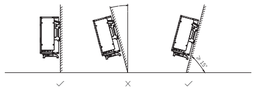


Figure 3 Recommended installation angle

03 Wall Bracket Installation

Figure 4 Mark the holes on the wall

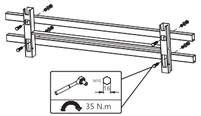


Figure 5 Fix the wall bracket

07 AC Connector Assembly

Put the cable through the cable gland, and strip off the outer insulation sheath < 190mm, according to the size of OT/DT terminals to peel off a proper length of the 3L /PE N wires, then insert the conductor core into the OT/DT terminals and press with a hydraulic clamp. As shown in Figure xx:

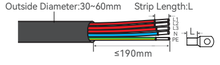


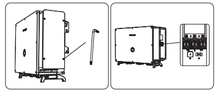
Figure 11 Recommended AC cable info

08 AC Connector Connection

An AC breaker must be connected on the AC side of the inverter. The recommended AC breaker for Sunways STT 100-150kW series three-phase inverters are shown in the following table.

Model	Inverter Rated Output Voltage	AC Breaker Rated Voltage	AC Breaker Rated Current
STT-100KTL-SE	400V	400V	200A
STT-110KTL-SE	400V	400V	200A
STT-125KTL-SE	400V	400V	250A
STT-136KTL-SE	400V	400V	250A
STT-150KTL-SE	400V	400V	250A

(1) Take out the ring spanner from the accessory box and remove the cover aftel unscrewed the screws on it.



(2) Select the appropriate threading hole on the wiring board based on the wire type. Align and cut the opening with scissors according to the corresponding wire diameter indicated beside each hole. Then thread the cable through the wiring board and connect it sequentially to terminals R, S, T, and N.

(3)Put back the right side cover and lock with its original screws.

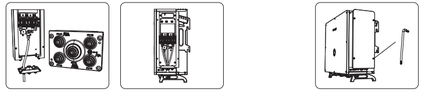


Figure12 AC connector connection

Note

If there're more than one inverter in a project, do not open all inverters roof cover at the same time if you cannot finish the AC connection immediately. Any damages caused by the moisture and dust that came into the inverter on account of exposed to the air for a long time are out of warranty.

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.

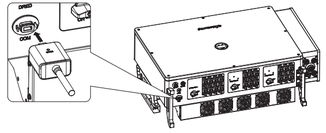


Figure 13 Monitoring device installation

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 [QUICK INSTALLATION GUIDE] which is attached to the accessory bag.

③ If DHCP is enabled on the router, the LAN version module does not need to be configured. Otherwise, please refer to the [QUICK INSTALLATION GUIDE] which is attached to the accessory bag.

10 Start the Inverter

① Turn on the AC breaker first (close the AC circuit breaker).

②Turn on the DC switch in the bottom. If the PV string voltage higher than the inverter start-up voltage, the inverter will start.

③When 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.

④After 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 Confguration Guide

1. WiFi Module Confguration.

Figure 14

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 of 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 14.

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 15

Figure 16

Figure 17

3. You will enter the interface "System".
Note:Click the"chinese/English" in the upper right corner to switch the interface language.

Figure 18

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

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 20

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

Figure 21

7.Input the password in the blank and click "Save".
Note: Password is case sensitive.

Figure 22

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

Figure 23

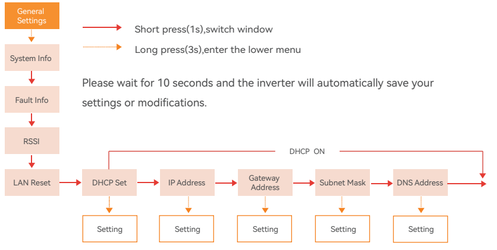
9. After the configuration succeeded, the indicator on the WiFi module will be always on.

Figure 24

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.



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