01 Packing List

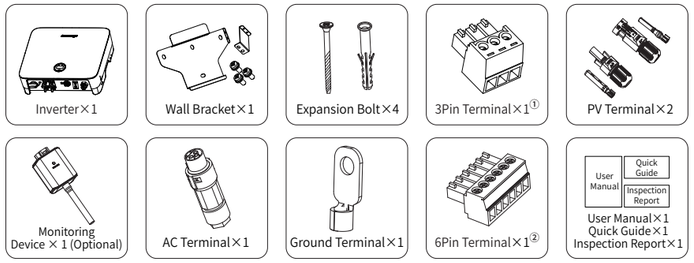


Figure 1 Packing list

Note	①	Export limit & control version 2pcs; RS485 and DRED version 1pcs (This connector is already pre-installed inside the inverter).
	②	DRED version only (This connector is already pre-installed inside the inverter).

02 Installation Spacing

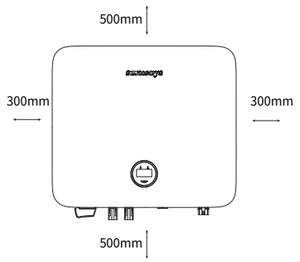


Figure 2 Installation spacing(Single Inverter)

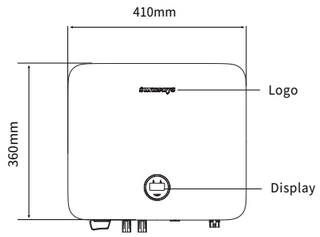


Figure 3 Front view

03 Bracket Dimensions

Use the wall bracket as the template to mark the position of 4 holes on the wall.

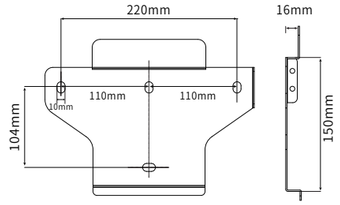


Figure 4 Dimensions of wall bracket

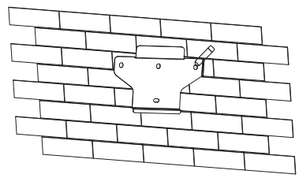


Figure 5 Mark the holes on the wall

04 Mounting the Inverter

Insert the expansion tubes into the holes and tighten them, then fix the bracket onto the wall with expansion screws by using a cross screwdriver. Lift up the inverter with both hands, hang the back rail on the fixed wall bracket carefully.

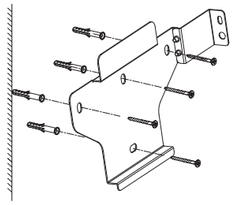


Figure 6 Fix the wall bracket

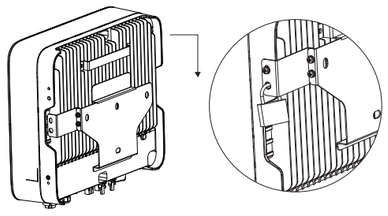


Figure 7 Mounting the inverter

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.

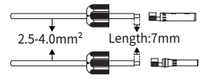


Figure 8 Strip off the cable sheath

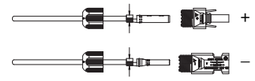


Figure 9 Press the metal terminal

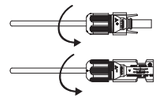


Figure 10 Tighten the DC connector

06 DC Connector Connection

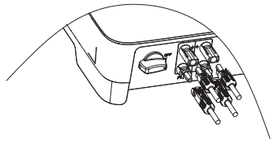


Figure 11 DC connector connection

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

Note:1. Disconnect the AC breaker on the grid side when connecting the PV connectors.
2. The DC switch must be switched to "OFF" position.

07 Ground Terminal Connection

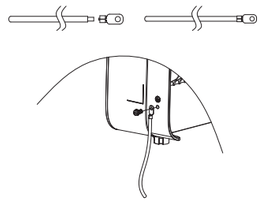


Figure 12 Ground terminal connection

Note:Inverter must be well-grounded for resisting surge voltage shock and improving EMI performance.

08 AC Connector Assembly

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

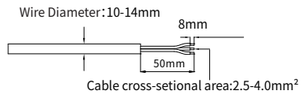


Figure 13 Recommended AC cable info

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

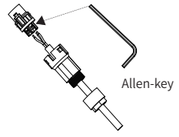


Figure 14 AC connector assembly

09 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 3-6kW series single-phase inverters are shown in the following table:
Connect the AC connector to the inverter AC terminal, and the slight “click” represents the connection is in place.

Model	Copper wire	Breaker
STS-3KTL	4mm²	20A
STS-3.6KTL	4mm²	25A
STS-4.2KTL	4mm²	32A
STS-4.6KTL	4mm²	32A
STS-5KTL	6mm²	40A
STS-6KTL	6mm²	40A

Note: Check the local standards for more details.

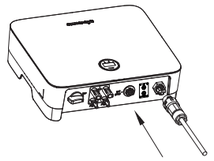
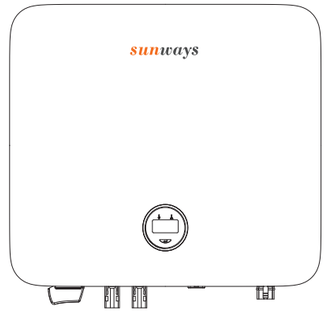


Figure 15 AC connector connection

10 Grid Connection Steps

1. Check whether all connectors are correctly connected.
2. Switch the AC breaker on.
3. Turn the DC Switch to "ON" position.
4. The inverter starts self-checking and the screen displays “checking”.
5. After self-checking is completed, the inverter will start to generate power. The power indicator will be light up and the real-time power will be displayed on the screen.

sunways



QUICK INSTALLATION GUIDE

STS 3~6kW Series
Grid-connected PV Inverter
Single Phase Dual MPPT

Sunways Technologies Co.,Ltd.
S11-00033-00

Monitoring Device Configuration Guide

01 Monitoring Device Installation

Insert the module into the COM port at the inverter bottom and pay attention to the direction of the module when assembling (the side with indicator light is facing up). A "click" sound heard represents the assembly is in place.

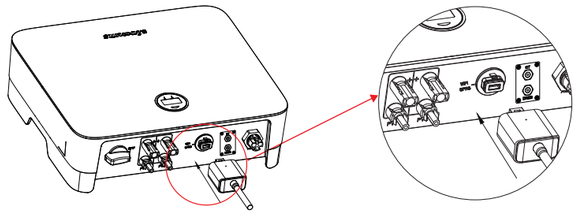


Figure 16 Monitoring device installation

For first time use, the WiFi module needs to be configured. Following the "WiFi Configuration Guide" below. If the WiFi password has changed. The WiFi dongle will need to be reconfigured.

02 WiFi module configuration guide

1. WiFi module configuration.

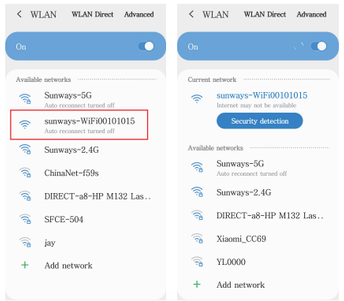


Figure 17

A. Insert the WiFi module into the COM port at the bottom of the inverter and power on the inverter.

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

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

D. WiFi connection succeeded as shown in Figure 17.

2. Open the Website http://10.10.100.254, see the following picture, the username and password are all "admin" and click "Sign in".

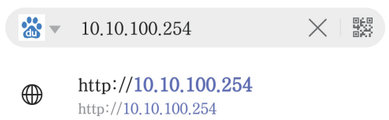


Figure 18

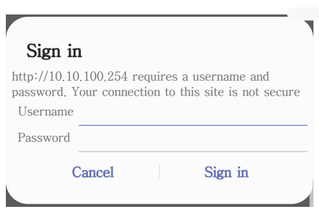


Figure 19

Figure 20

3. Log in to the "System" interface.

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

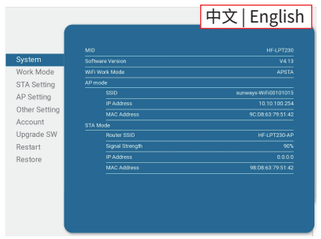


Figure 21

4. Select "STA setting" and click "Scan". A list of WiFi network will show up.

Figure 22

5. Select the household's WiFi name and click "OK".

Note: Only support 2.4GHz WiFi.

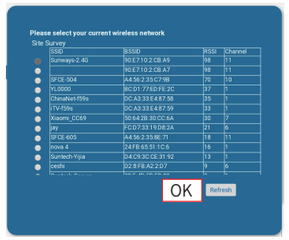


Figure 23

6. In the pop-up window, click "OK" to key in the WiFi password.

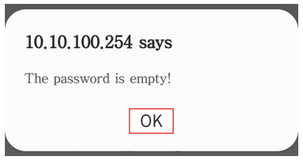


Figure 24

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

Note: Password is case sensitive.

Figure 25

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

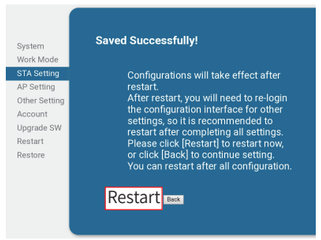


Figure 26

9. After the reboot, the green indicator on the WiFi module will be always on.

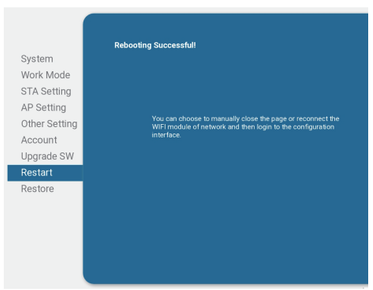


Figure 27

GRID-CONNECTED PV INVERTER

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