

sunways STS 3-6kW Series Grid-connected PV Inverter Single Phase Dual MPPT Installation Guide

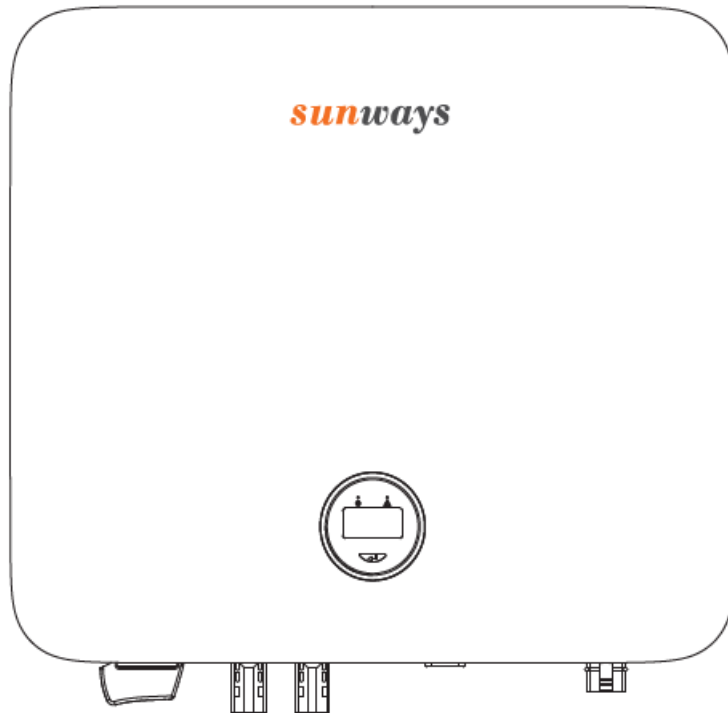
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Packing List

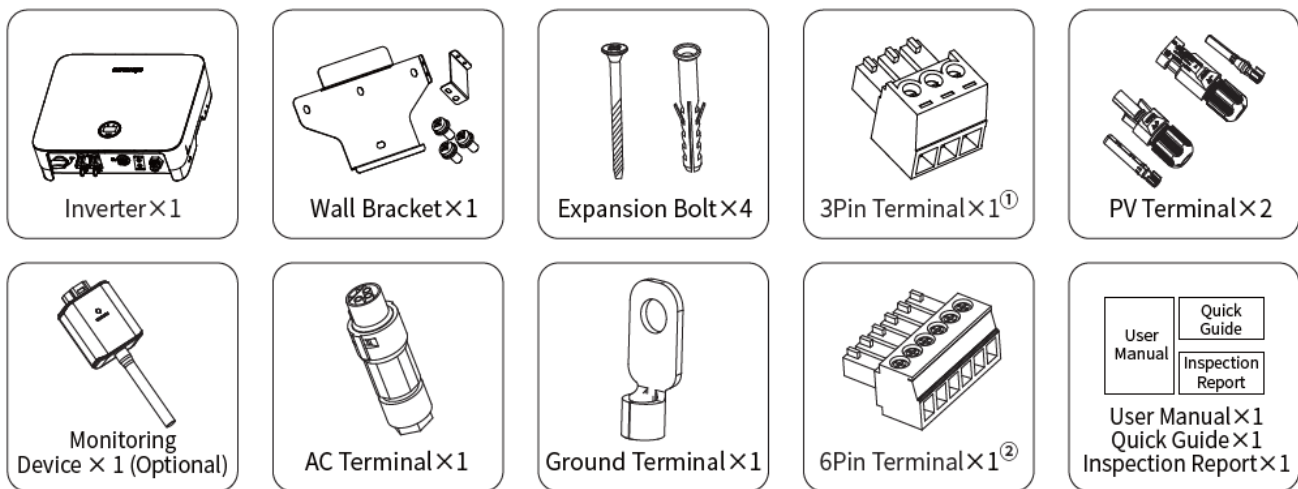
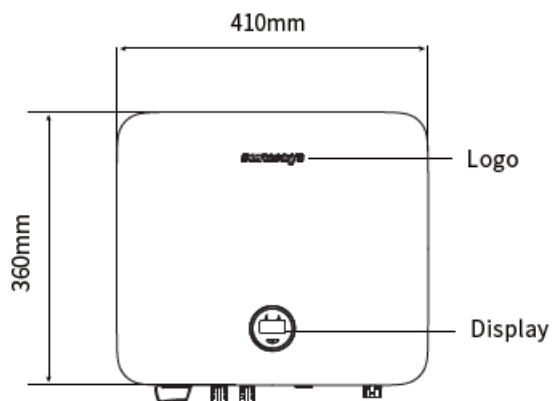
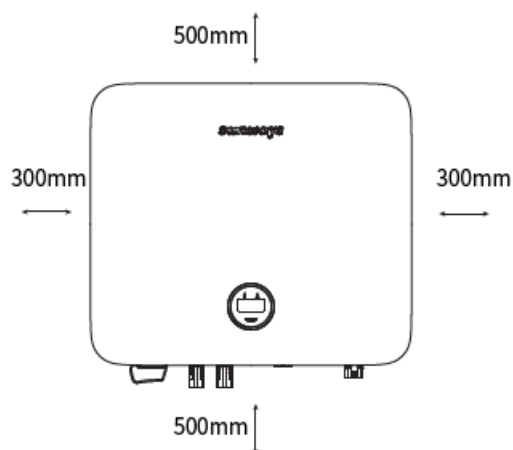


Figure 1 Packing list

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).

Installation Spacing



Bracket Dimensions

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

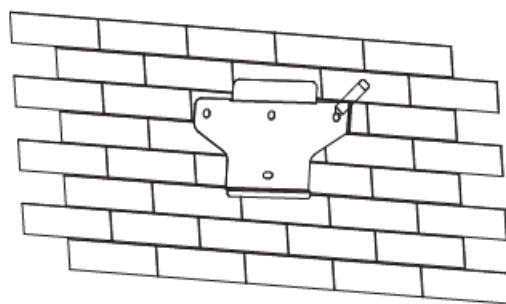
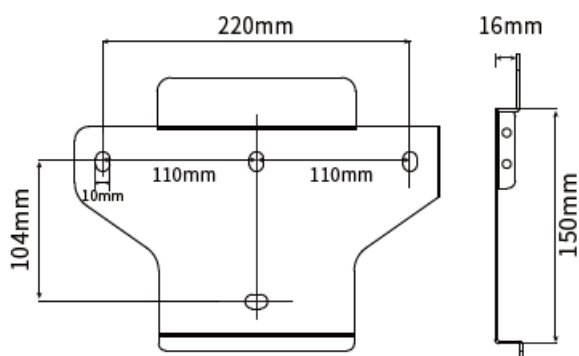


Figure 4 Dimensions of wall bracket

Figure 5 Mark the holes on the wall

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.

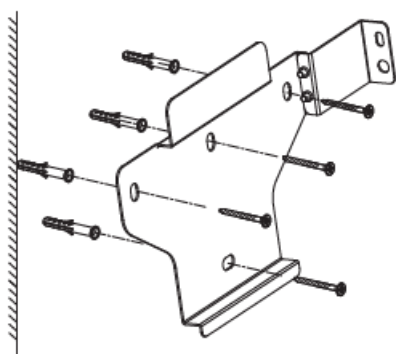


Figure 6 Fix the wall bracket

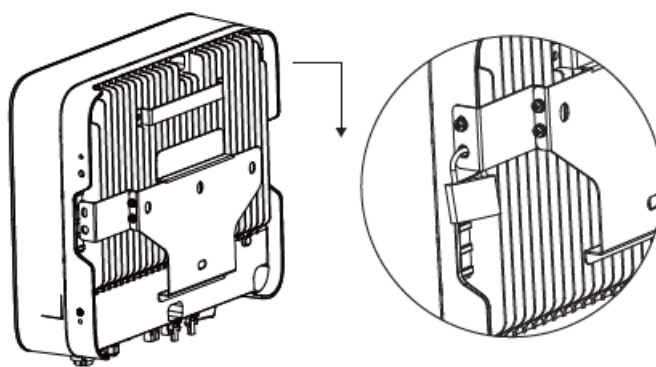


Figure 7 Mounting the inverter

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.

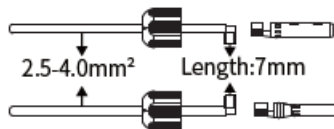


Figure 8 Strip off the cable sheath

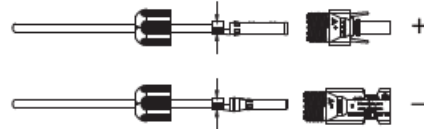


Figure 9 Press the metal terminal

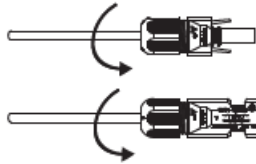


Figure 10 Tighten the DC connector

DC Connector Connection

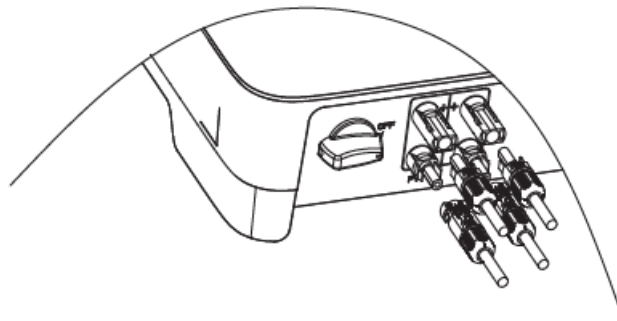


Figure 11 DC connector connection

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.

Ground Terminal Connection

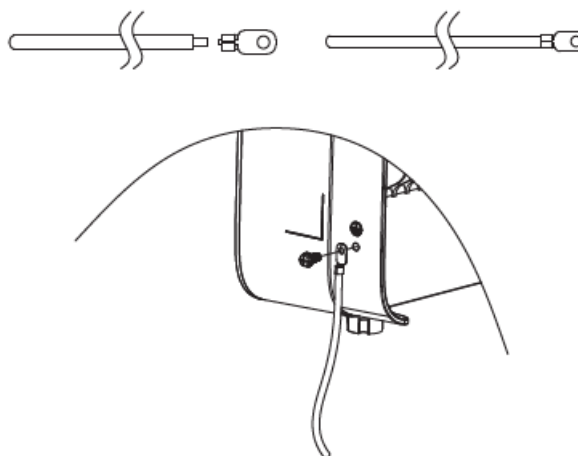


Figure 12 Ground terminal connection

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

AC Connector Assembly

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

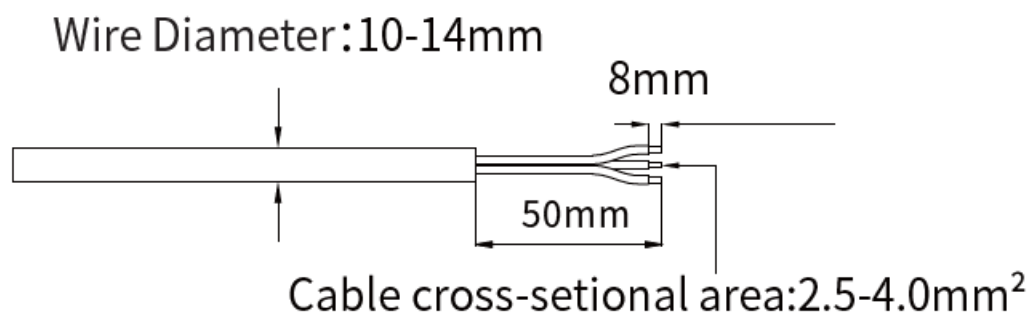


Figure 13 Recommended AC cable info

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.

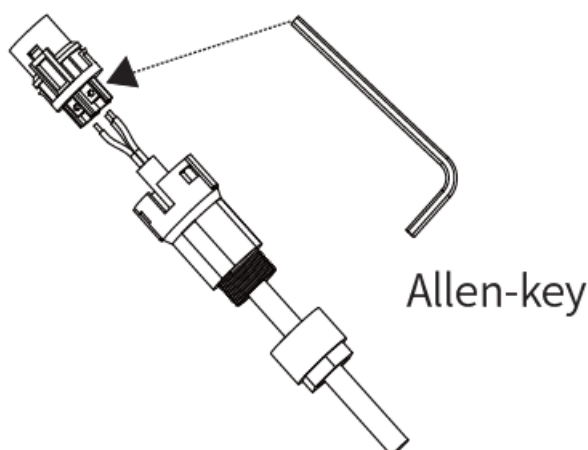


Figure 14 AC connector assembly

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		4mm ²	20A
STS-3.6KTL		4mm ²	25A
STS-4.2KTL		4mm ²	32A
STS-4.6KTL		4mm ²	32A
STS-5KTL		6mm ²	40A
STS-6KTL		6mm ²	ds 40A e
Note: Check the		local standar	for mor

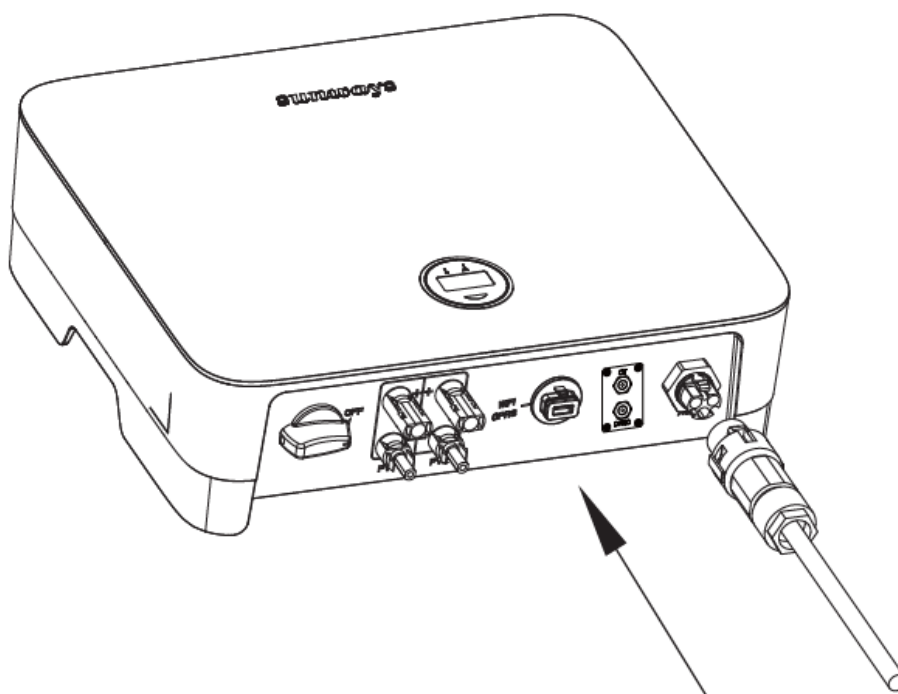


Figure 15 AC connector connection

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.

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.

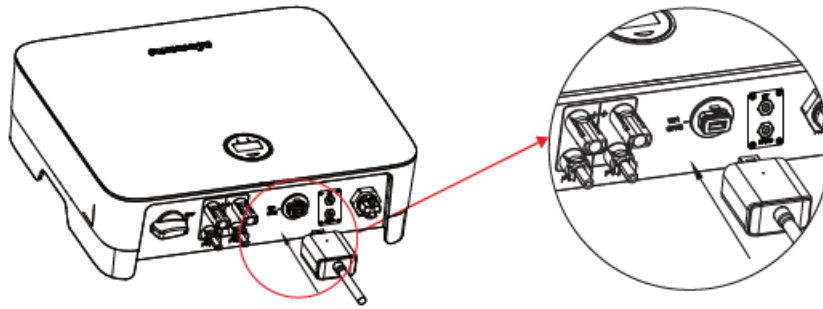


Figure 16 Monitoring device installation

For first time use, the WiFi module needs to be configured. Follow-ing the “WiFi Configuration Guide” below. If the WiFi password has changed. The WiFi dongle will need to be reconfigured.

WiFi module configuration guide

1. WiFi module configuration.

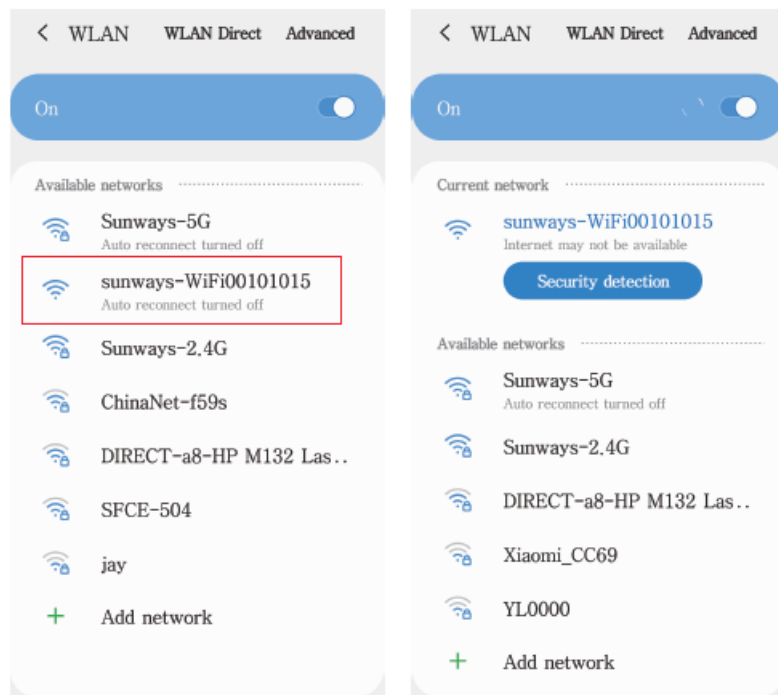


Figure 17

- Insert the WiFi module into the COM port at the bottom of the inverter and power on the inverter.
 - Using a laptop or Smartphone and turn on the WLAN connection.
 - Search for the WiFi name “sunways-WiFi*****” (*represents the last 8 numbers of the inverter SN) and click the WiFi name.
 - 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

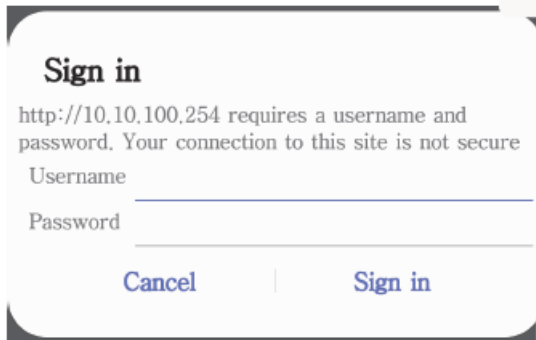


Figure 19



Figure 20

3. Log in to the “System” interface.

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

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

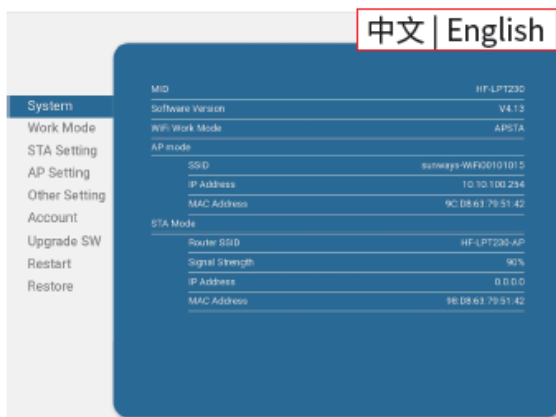


Figure 21

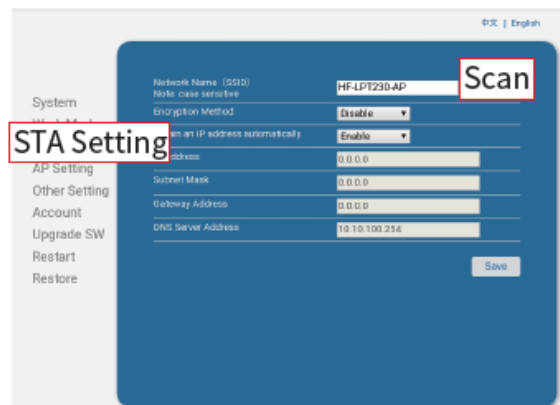


Figure 22

5. Select the household’s WiFi name and click “OK”.

Note: Only support 2.4GHz WiFi.

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

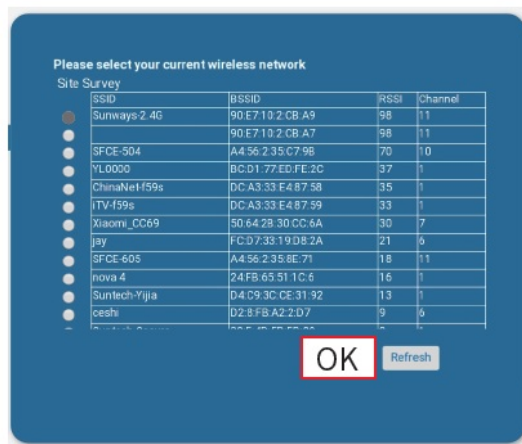


Figure 23

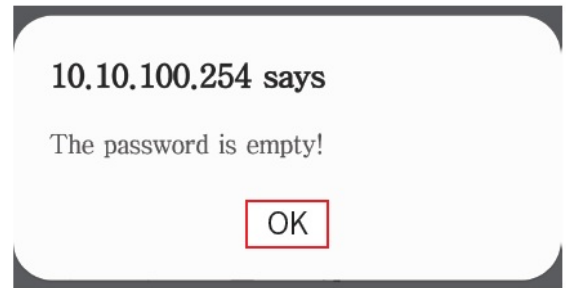


Figure 24

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

Note: Password is case sensitive.

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

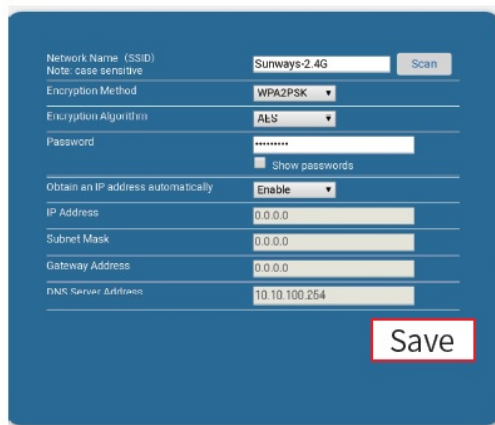


Figure 25

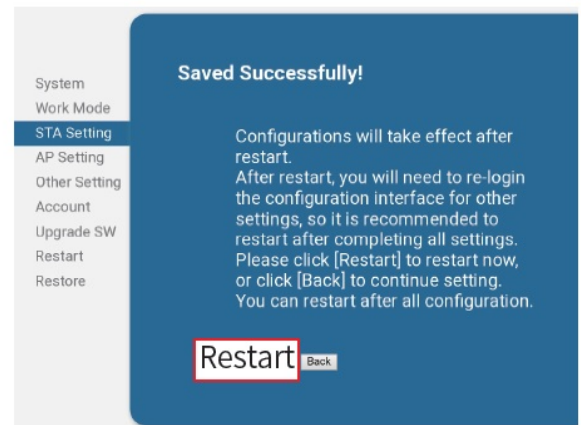


Figure 26

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

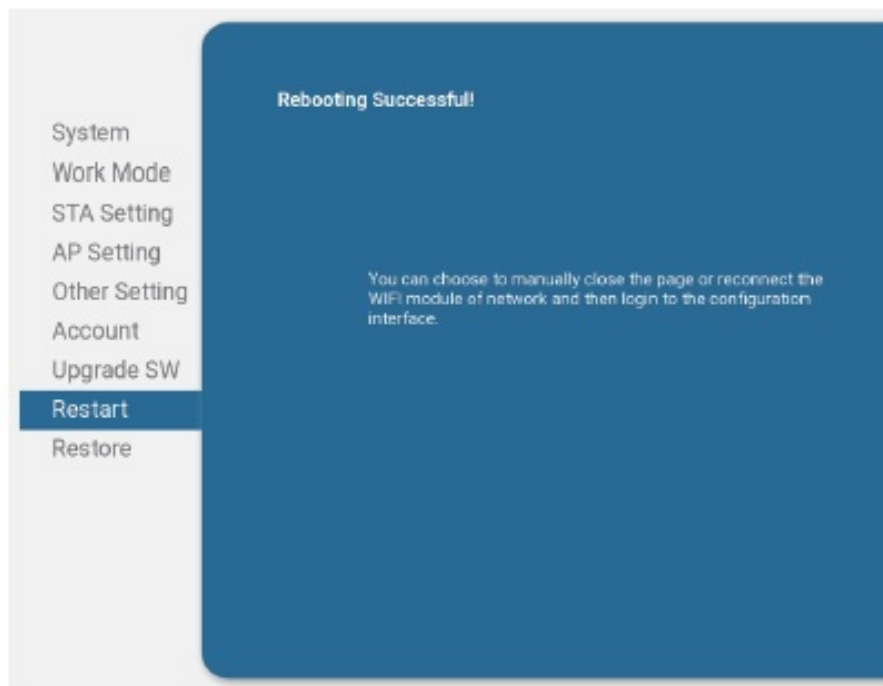
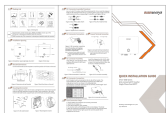


Figure 27

Documents / Resources

	sunways STS 3-6kW Series Grid-connected PV Inverter Single Phase Dual MPPT [pdf] Installation Guide STS 3 6kW Series Grid-connected PV Inverter Single Phase Dual MPPT, STS 3 6kW Series, Grid-connected PV Inverter Single Phase Dual MPPT
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References

- [Home | Suntech](#)