

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(torque 1.5~2N·m).

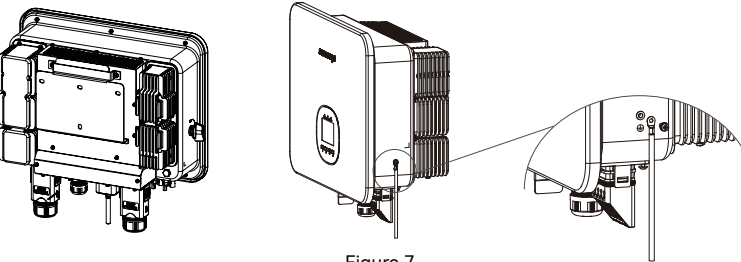


Figure 7

05 Electrical Wiring Diagram

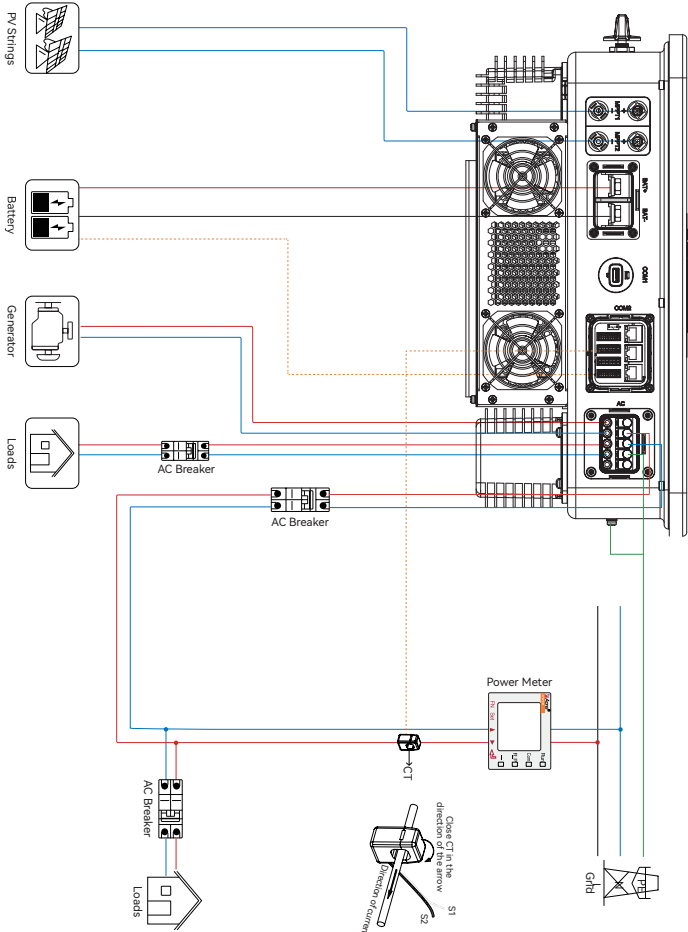
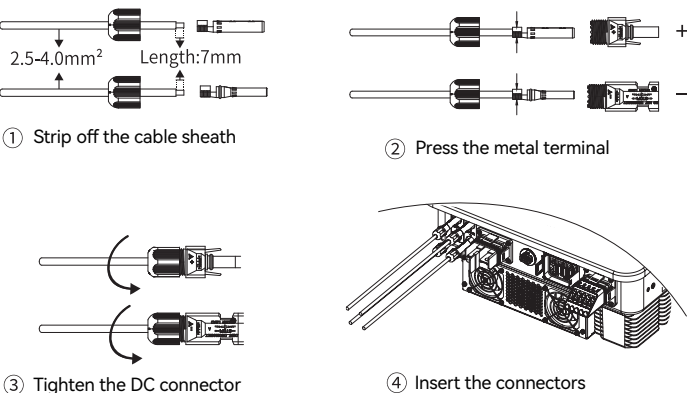


Figure 8 Electrical wiring diagram

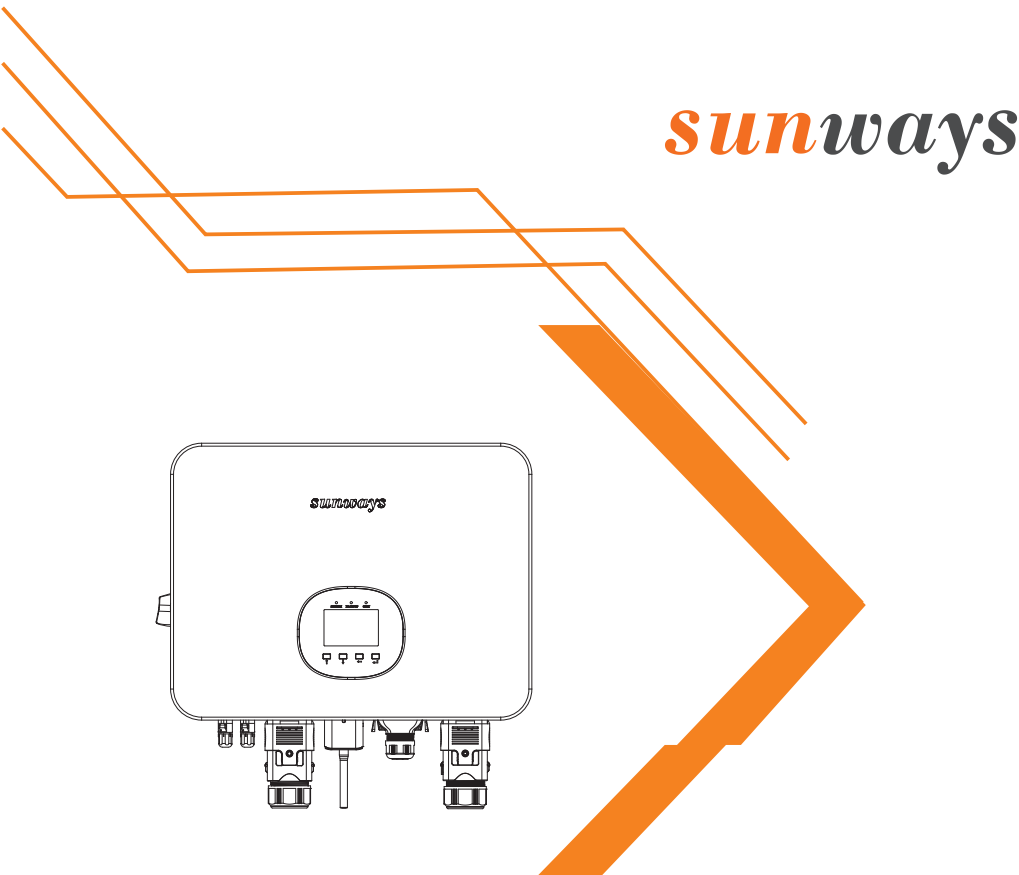
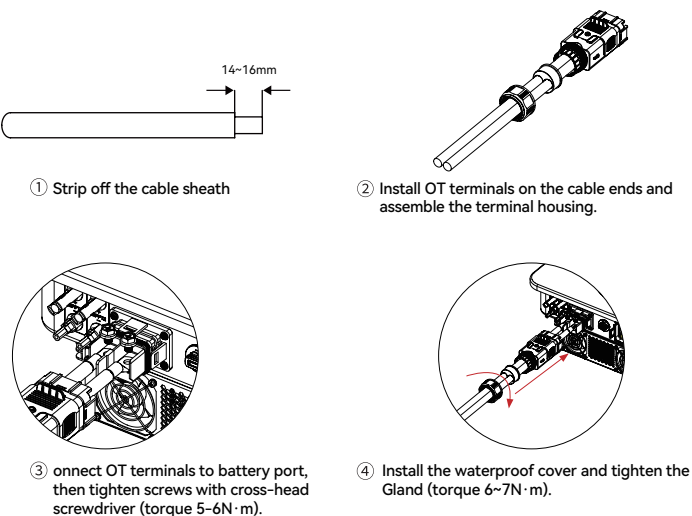
06 PV Connector Assembly Procedure and Connection

Cable type	Conductor cross-sectional area (mm²)	
General photovoltaic cable	Scope (mm²)	Recommended value (mm²)
	2.5~4.0	4.0



07 Inverter Battery Connector Assembly Procedure

Model	Cable type	Outside diameter (mm)
STH 3-8KTL-LS	Single-core Cable: 1AWG (2pcs)	12-14



QUICK INSTALLATION GUIDE

STH 3-8KTL-LS
Low Voltage Hybrid Inverter
Single Phase 1/2 MPPT

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Cixi City, ZheJiang Province, PEOPLE' S REPUBLIC OF CHINA

S11-00128-00

Part 1 Inverter Installation And Wiring

01 Packing List

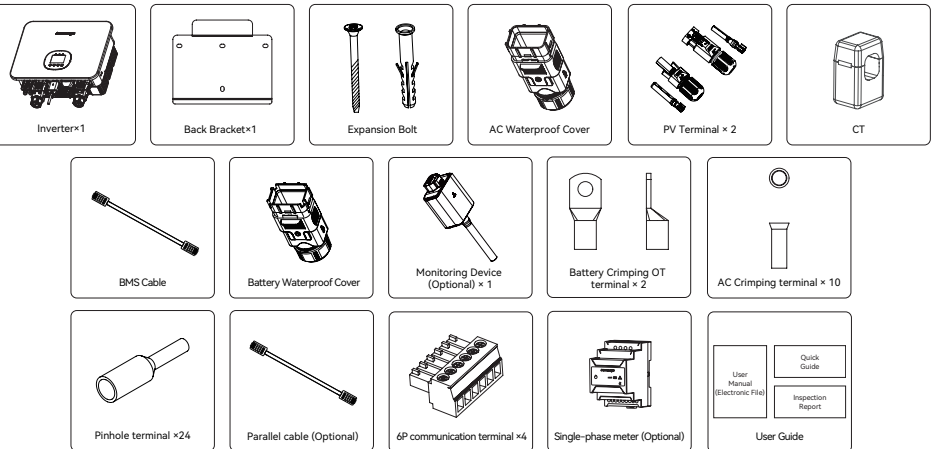


Figure 1 Packing list

02 Installation Spacing and Angle

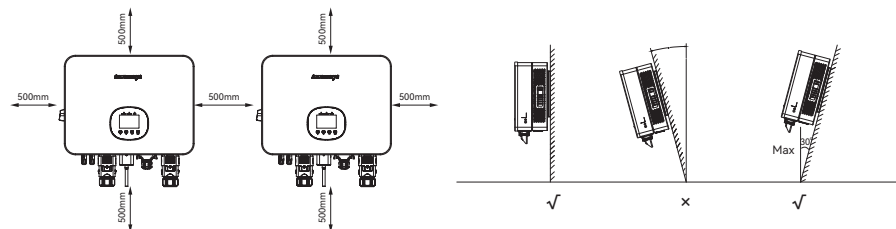


Figure 2 Recommended installation spacing

Figure 3 Recommended installation angle

03 Wall Bracket Installation

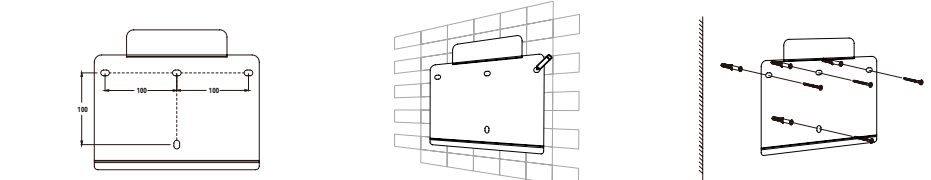


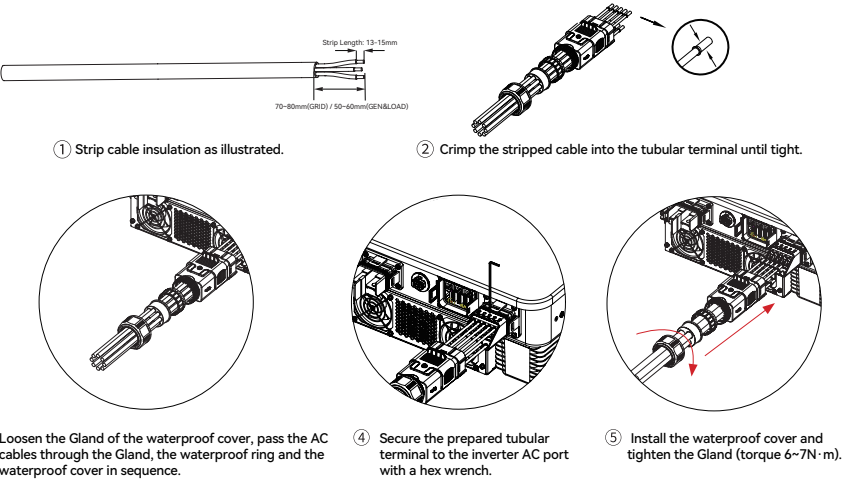
Figure 4 Dimensions of wall bracket

Figure 5 Mark the holes on the wall

Figure 6 Fix the wall bracket

08 AC Output Connector Connection

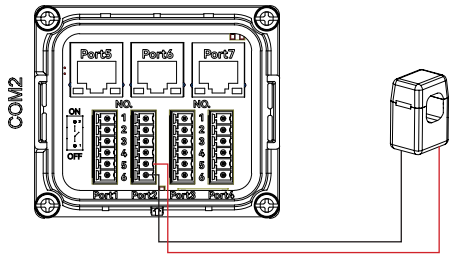
Model	STH-3KTL-LSS	STH-3.6KTL-LSS	STH-4.2KTL-LS	STH-4.6KTL-LS	STH-5KTL-LS	STH-6KTL-LS	STH-7.5KTL-LS	STH-8KTL-LS
Cable specification (Single-core Cable)	GRID: 8AWG (3pcs) LOAD: 8AWG (3pcs) GEN: 8AWG (2pcs)							
Cable specification (Multi-cores Cable)	GRID: 8AWG*3 (1pcs) LOAD: 8AWG*3 (1pcs) GEN: 8AWG*2 (1pcs)							
Outside diameter(mm)	Single-core Cable(Grid&LOAD&GEN:4~6.6) Multi-cores Cable(Grid&LOAD:10-15 GEN:10-13.5)							



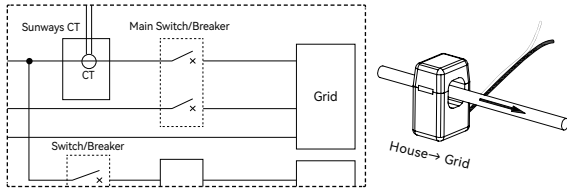
09 CT Connection

Port	Function	NO.	Definition
Port2 (CN4)	DI1/DO3/CT	1	GND-S
		2	DI1_IN
		3	DO3
		4	DO3-
		5	CT+
		6	CT-

On the Inverter communication side, CT needs to be connected with the Port 2 NO.5 and NO.6 Terminal in the communication port. Do not reverse the positive and negative poles when wiring.



For the Fire wire side, please install the CT on the Fire wire between the house loads and the power grid.



10 Monitoring Device Installation

Sunways STH 3-8KTL-LS series hybrid inverter can be monitored through WiFi, GPRS or LAN(Optional), and you can alternatively select according to your preference. Plug the Monitoring module into the Com1 port in the bottom of inverter. A slight “click” sound during the installation represents that the assembly is in place.

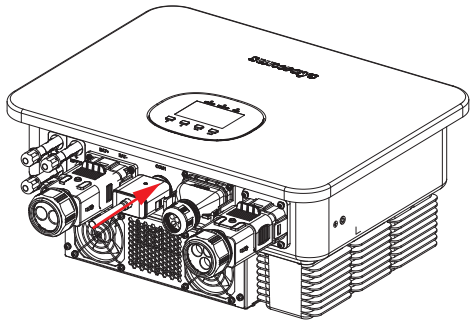


Figure 10 Monitoring Device Installation

11 Start the Inverter

When starting the inverter, follow these steps:

- 1) Turn on the AC breaker (close the AC circuit breaker).
- 2) Turn on the lithium battery switch.
- 3) Turn the DC switch in the inverter bottom to the “ON” position.
- 4) The inverter will start to check the DC and AC input parameters and self-check, and if everything is normal, the inverter will start to work according to the work mode which you set on the App. The inverter display and indicators will show relative parameters and status.

Part 2 Monitoring Device Configuration Guide

01 WiFi Module Configuration Guide

1. WiFi Module Configuration.

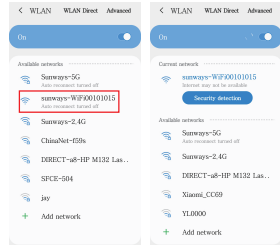


Figure 14

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

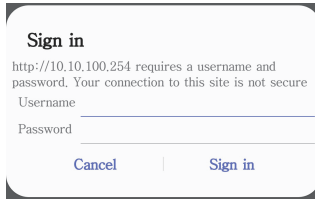


Figure 16

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

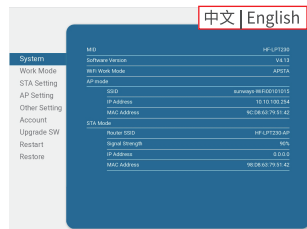


Figure 18



Figure 17

4. Please ensure the Work mode is selected to AP+STA mode.

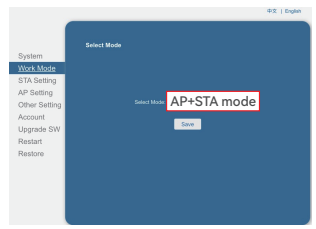


Figure 19

5. Click “STA Setting” to enter the WiFi configuration interface, and click“Scan”. A list of WiFi networks will be displayed.



Figure 20

7. Now, a notice will pop-up and reminds you to input the WiFi password, click“OK”.

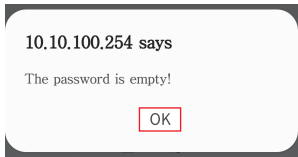


Figure 22

9. The system will show“ Saved Successfully !” click “Restart” to complete the WiFi configuration.

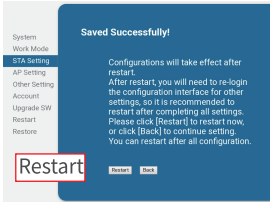


Figure 24

6. Select the WiFi that you are going to connect and click“OK”.

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

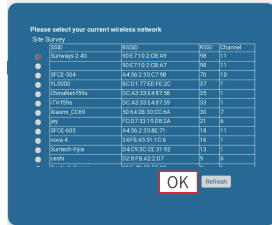


Figure 21

- 8.Input the password in the blank and click “Save”.

Note: Password is case sensitive.

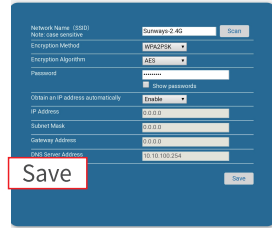


Figure 23

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

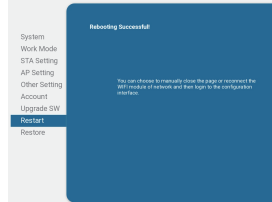


Figure 25