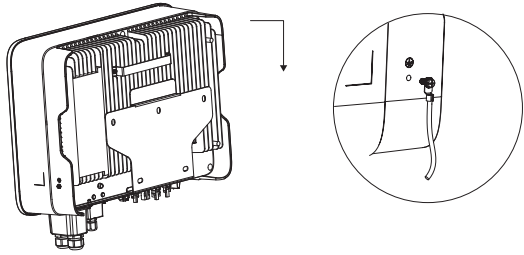
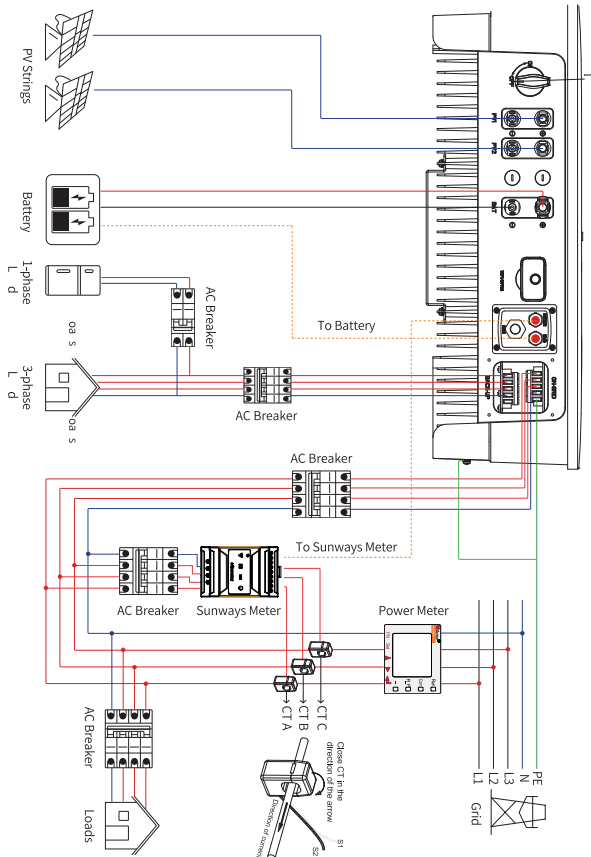


04 Mounting the Inverter

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.

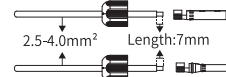


05 Electrical Wiring Diagram

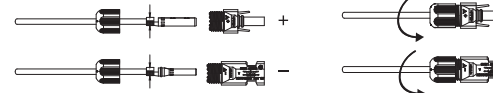


06 PV Connector Assembly Procedure and Connection

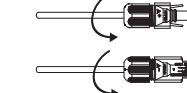
Cable type	Conductor cross-sectional area (mm ²)	
	Scope (mm ²)	Recommended value (mm ²)
General photovoltaic cable	2.5-4.0	4.0



① Strip off the cable sheath



② Press the metal terminal



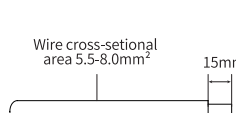
③ Tighten the DC connector



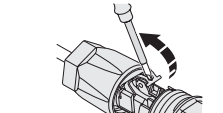
④ Insert the connectors

07 Inverter Battery Connector Assembly Procedure

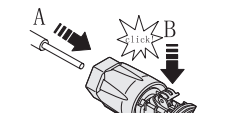
Cable type	Conductor cross-sectional area (mm ²)	
	Outside diameter (mm ²)	Conductor core section (mm ²)
AWG 10	5.5-8.0	4.0-6.0



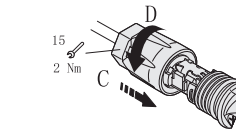
① Strip off the cable sheath



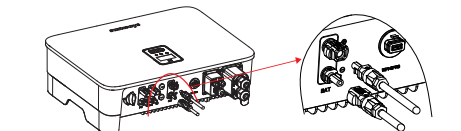
② Open the clamping bracket



③ Insert the cable and toggle the clamping bracket



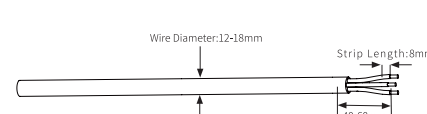
④ Lock the connector



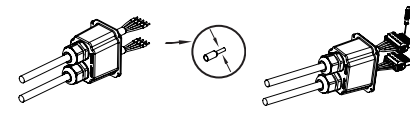
⑤ Insert the connectors

08 AC Output Connector Connection

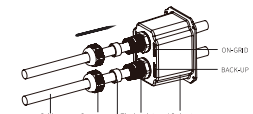
Model	STH-4KTL-HT	STH-5KTL-HT	STH-6KTL-HT	STH-8KTL-HT	STH-10KTL-HT	STH-12KTL-HT
Outside diameter (mm)	12-18	12-18	12-18	12-18	12-18	12-18
Conductor core section (mm ²)	2.5-10	2.5-10	2.5-10	3.2-10	4-10	6-10
Breaker (A)	20	20	20	32	32	40



① Peel off the insulation sleeve

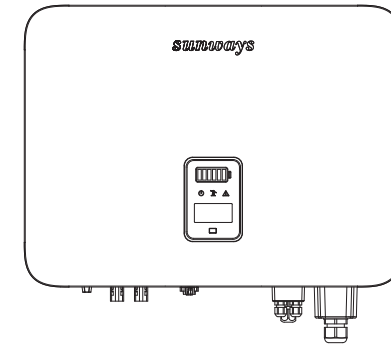


③ Press the cord end terminals and lock it



④ Insert the assembled AC connector

Sunways



QUICK INSTALLATION GUIDE

STH 4~12kW-HT Series
Three Phase Storage Inverter

Sunways Technologies Co.,Ltd.

Hotline: +86 400-9922-958

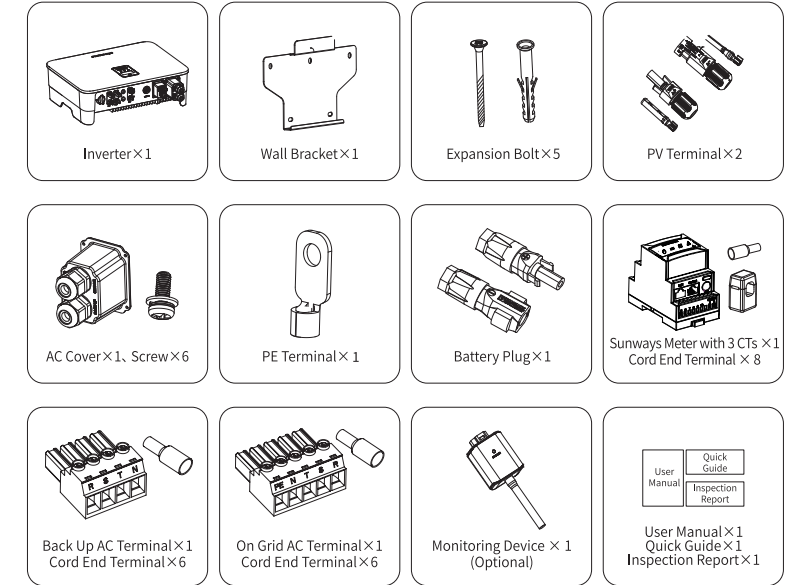
Website: www.sunways-tech.com

Address: No. 1, Second Road, Green Industrial Zone, Chongshou Town,
Cixi City, ZheJiang Province, PEOPLE'S REPUBLIC OF CHINA

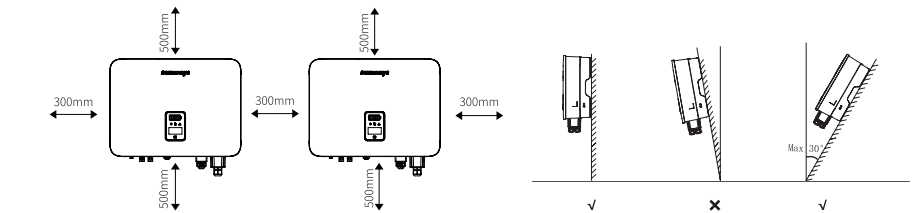
S11-00020-02

Part 1 Inverter installation and wiring

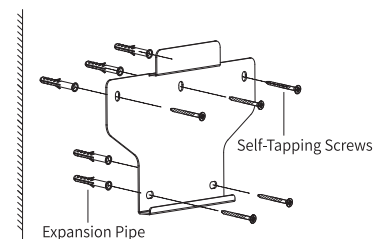
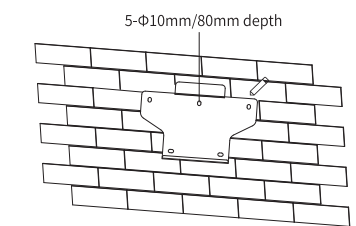
01 Packing List



02 Installation Spacing and Angle

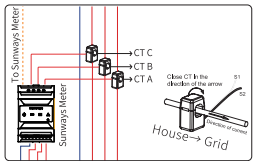


03 Wall bracket installation



09 CT and Meter Connection

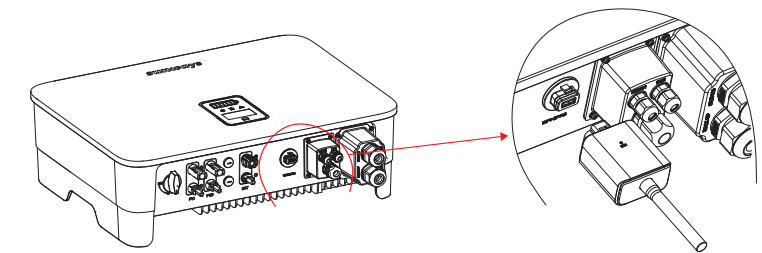
No.	Definition	Function	No.	Definition	Function
1	L1	L1/L2/L3/N connect to grid to detect power grid voltage	1	L1	L1/L2/L3/N connect to grid to detect power grid voltage
2	L2		2	L2	
3	L3		3	L3	
4	N	Connect CT to detect current	4	N	Connect CT to detect current
5	L1-S1		5	L1-S1	
6	L1-S2		6	L1-S2	
7	L2-S1		7	L2-S1	
8	L2-S2		8	L2-S2	
9	L3-S1		9	L3-S1	
10	L3-S2		10	L3-S2	
12	/	/	12	L	Power supplied from grid
13	/	/	13	N	
RS485-2	RS485	Communicate with inverter	RS485	RS485	Communicate with inverter



CT A connected to L1
CT B connected to L2
CT C connected to L3

10 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.



Note

- 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.
- 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.

11 Start the Inverter

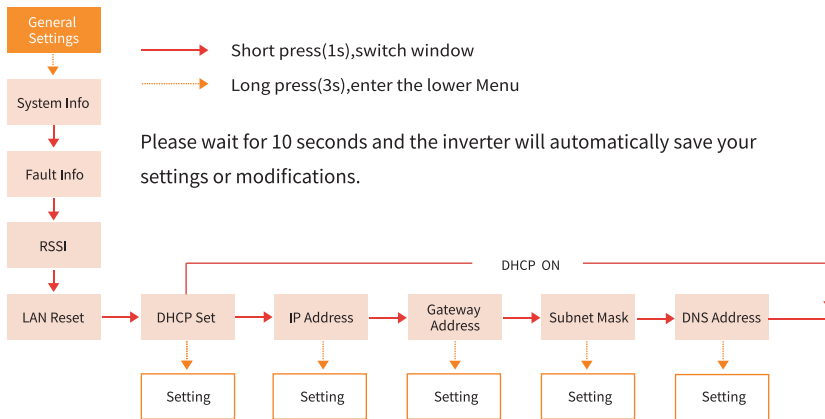
- Turn on the AC breaker first (close the AC circuit breaker).
- Turn on the DC switch in the bottom. If the PV string voltage higher than the inverter start-up voltage, the inverter will start.
- When both AC and DC power supply are normal, the inverter is ready to start. The inverter will initiate 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.
- 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 LAN Module Configuration Guide

01 LAN module configuration guide

If DHCP is disabled on the router, the LAN version module will need to be configured on inverter screen.

- Find the “General Settings” by short pressing the button on the inverter screen.
- Enter the “General Settings” by long pressing the button on the inverter screen.
- 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.
- Then set the “IP Address”, “Gateway Address”, “Subnet Mask” and “DNS Address” by short pressing and long pressing the button on the inverter screen.



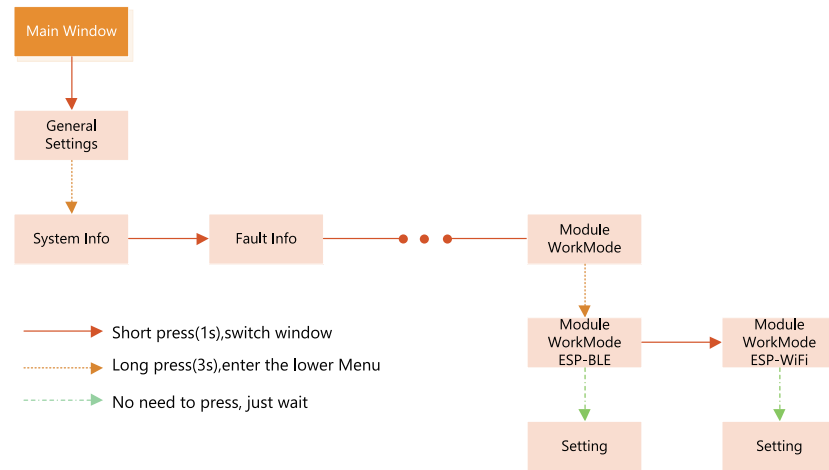
Part 3 WiFi 2.0 Module Configuration Guide

01 Overview

WiFi 2.0 is a new generation of WiFi monitoring module from Sunways, with two modes:Bluetooth and WiFi.The default mode is Bluetooth After hybrid inverter is connected to WiFi 2.0.

02 Bluetooth -WiFi Mode Switching Methods

There are two ways to switch between Bluetooth and WiFi mode.One is to switch quickly by pressing and holding button for 3 seconds when it is on the Home page; the other is as follows:



03 Sunways Setup App Download Method

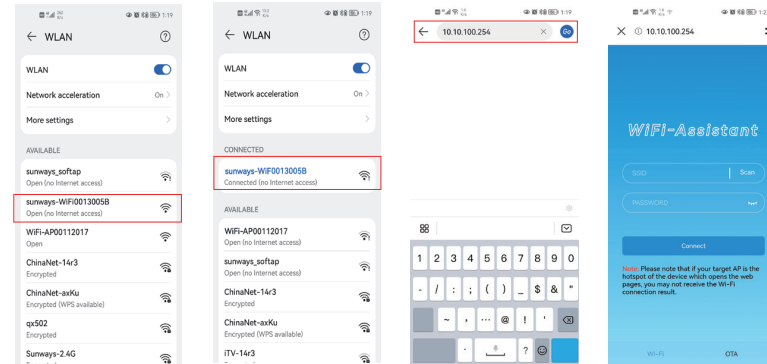
Sunways Setup APP is a mobile application that communicates with hybrid inverters over Bluetooth and allows you to monitor real-time status and configure parameters.

Scan the QR code to download and install the app.



04 Configuration

- Prepare a laptop, tablet or smart phone and turn on the wireless network function on the device.
- Searching for the corresponding WLAN in the WLAN connection list “Sunways-WiFi*****” (“*”represents digital), and tap connect.
- The system information interface will automatically pop up ; If not, manually open the browser and enter 10.10.100.254.



- Tap“Scan”· A list of WiFi network names pop up.
- Click and select the corresponding router network you want to configure.
- Input the password of wireless network (note the case difference) , Tap“Connect”
- If connected successfully “Connection succeeded”will displayed. After successful configure, the indicator status of WiFi 2.0 module will be steady on.

