SUNGROW
Clean power for all

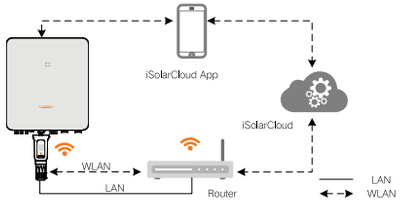
Quick Installation Guide

Communication Module

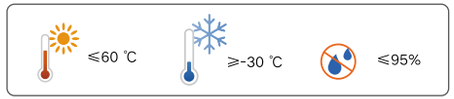
WiNet-S



1 Application Scenarios

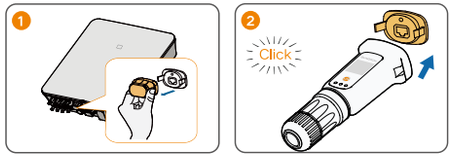


2 Installation Environment

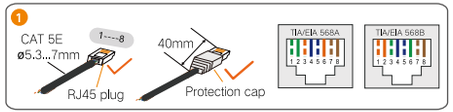


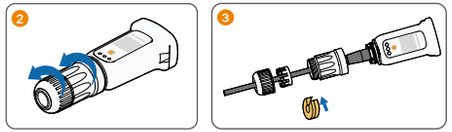
3 Installation (Choose one of the Two Methods)

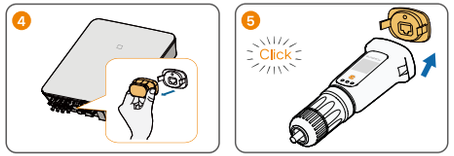
- Installation with WLAN communication

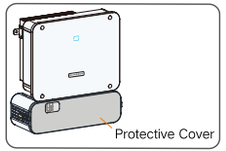


- Installation with LAN communication



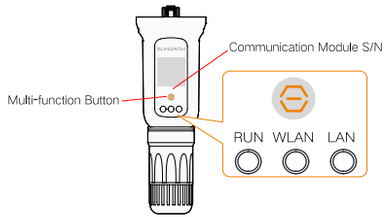






Note: If a protective cover is installed at the inverter bottom, it may cause wireless communication signals to attenuate, thus shortening the communication distance of the communication module.

4 Indicators and Multi-function Button



- Indicator Description

Indicator	Status	Description
RUN	Off	Not connected to external power supply
	Slow blinking (Green)	Normal operation
	Fast blinking (Green)	Networking Mode（Successfully connected with the wireless meter)
	Steady red	Module failure
WLAN	Off	The module is not connected to the wireless network of the home router
	On	The module is connected to the wireless network of the home router, but there is no data communication
	Slow blinking	Data communication
	Fast blinking	EasyConnect mode (factory default)
LAN	Off	There is no network cable connecting the module and the home router
	Steady green	A network cable connects the module and the home router, but there is no data communication
	Steady green, blinking red	Data communication

Note:The slow blinking interval is 1s. The fast blingking interval is 0.2s.

- Multi-function Button Description

Operation	Description
Press once	• For products purchased before Sept. 1, 2021, press once to turn on/off EasyConnect mode. • For products purchased after Sept. 1, 2021, press once to turn on EasyConnect mode, which will be automatically turned off when network configuration is finished. If the network configuration is not completed within 10 minutes, press again to refresh the automatic shutdown time, otherwise this mode will be automatically turned off. WLAN indicator blinks fast when EasyConnect mode is turned on (only used to "Creating Plant" through iSolarCloud App).
Press 3 times	Turn on WLAN hotspot. By default it requires no password to access within 30 minutes. If the wireless network named "SG-WiNet-S communication module S/N" is in the WLAN list of the mobile phone, the WLAN hotspot is turned on. The communication module S/N is under the QR code on the front of the module. See the above product drawing. It only turns on WLAN hotspot and does not turns it off. Note: Only one device (mobile phone, PC, iPad, etc.) is allowed to connect to WLAN hotspot at a time.
Press for 5-10s	The device is in networking mode
Press for more than 30s	Restore the factory settings of the communication module and the WLAN indicator blinks fast

5 Initial Grid Connection

- Scan the QR code to install the iSolarCloud App

- Initial Grid Connection Methods
  - Method 1: Upload device data to iSolarCloud

Initial grid connection can be done via the iSolarCloud App. For detailed instructions, refer to the chapter "Creating Plant" in the iSolarCloud App User Manual. Click the ··· icon in the upper right corner of the iSolarCloud App login interface to view the iSolarCloud App User Manual. After the operation of creating plant is completed, the initial grid connection of the inverter is completed.

If the home router is changed or the home router password is reset, the WLAN indicator is turned off. Device data could not be uploaded to iSolarCloud. Network can be configured again using the iSolarCloud App or the built-in Web.

More information in the QR code or at http://support.sungrowpower.com

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Sungrow Power Supply Co., Ltd.
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- Network configuration via iSolarCloud App

Refer to the "WLAN Configuration" section of the iSolarCloud App User Manual for details.

- Network configuration via built-in Web

1) Verify whether the WLAN hotspot named "SG-WiNet-S communication module S/N" is turned on. If the hotspot is not turned on, press the multi-function button three times. Please refer to "Multi-function Button Description" for details.

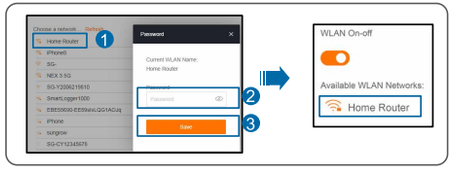
2) Connect your PC or iPad to the WLAN hotspot named "SG-WiNet-S communication module S/N".

3) Open the browser (Chrome 60 or newer version is recommended) and enter 11.11.11.1 in the address bar to access the built-in Web. Click "Login" in the upper right corner of the interface, and enter the user name "admin" and the default password "pw8888".

4) Click "System-> Port Parameter ->WLAN." Find the home router network in the list of available WLAN networks nearby.

5) Click the home router network and enter the password to connect to it.

6) When the icon in the lower left corner lights up, network configuration is successful.



- Method 2: Device data is not required to be uploaded to iSolarCloud

Initial grid connection can be done with the iSolarCloud App or the built-in Web.

- Initial grid connection via iSolarCloud App

Refer to the "WLAN Login-> Login" section of the iSolarCloud App User Manual for details. Click the ・・・ icon in the upper right corner of the iSolarCloud App login interface to view the iSolarCloud App User Manual.

- Initial grid connection via the built-in Web

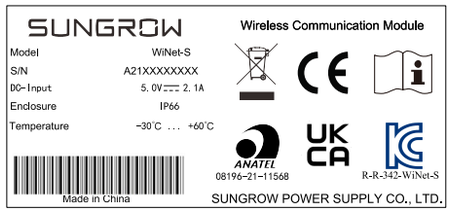
1) Refer to Steps 1 to 3 of Method 1 "Network configuration via built-in Web".

2) Click "Device Monitoring", and then complete the initial grid connection configuration according to the prompts on the interface.

Note: The "Country /Region" must be set to the country where the inverter is installed. Otherwise, the inverter may report errors.
When the inverter is connected to grid for the first time, the "Boot" operation is required.

6 Performance Parameters

- Nameplate



Parameter	Description
DC-Input	⎓ : Direct current
Enclosure	Dustproof and waterproof rating IP66: The product is completely dustproof and can withstand waves of water and pressurized jets, causing no harm.
Temperature	Operating temperature range
	Do not dispose of the communication module together with household waste
	CE mark of conformity
	Refer to the corresponding instructions
	Anatel mark of conformity

Parameter	Description
	UKCA mark of conformity
	KC mark of conformity

- Wireless Transmit Power

Mode	TRP
802.11b	≤ 20 dBm
802.11n HT20	≤ 14 dBm

- Wireless Operating Frequency

Parameter	Value
Operating frequency	2412 MHz ~ 2472 MHz

7 Troubleshooting

If the module fails to be connected to the iSolarCloud, troubleshoot as follows:

No.	Fault	Corrective Measure
1	WLAN indicator is off	Check, through the iSolarCloud App or the built-in Web, if the module is connected to the home router.
2	WLAN indicator blinks fast	Check, through the iSolarCloud App, if the module is connected to the home router.
3	WLAN indicator is on for more than 1min	1) Check and ensure that the home router can access the network normally. 2) Check the whitelist/blacklist settings of the home router. Add the domain name (iot.isolarcloud.com, iot.isolarcloud.com.hk, iot.isolarcloud.eu,auiot.isolarcloud.com) to the whitelist or remove it from the blacklist when necessary. 3) Check the home router settings and ensure that the port 19999 and 16668 are not blocked. 4) If the fault still persists, contact SUNGROW.

No.	Fault	Corrective Measure
4	LAN indicator is off	1) Check and ensure that the network cable is securely connected to the module and the home router. 2) Replace the network cable and repeat the previous step.
5	LAN indicator is on for more than 1min	Method 1: 1) Check if the home router is assigned a static IP. If so, configure the static IP through the built-in Web. 2) Replace the network cable and repeat the previous step. Method 2: Refer to the corrective measure to No. 3.