SUNGROW
Clean power for all

Quick Installation Guide
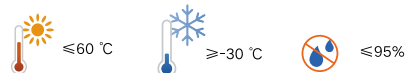## Communication Module
WiNet-S2

WiNet-S2-QIEN-Ver12-202211

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1 Application Scenarios

iSolarCloud App
iSolarCloud
WLAN
LAN
Router
LAN
WLAN
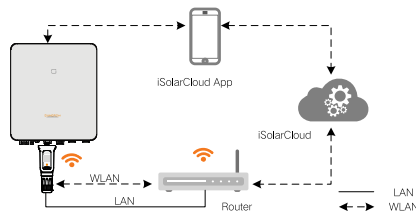
2 Installation Environment

≤60 ℃   ≥-30 ℃   ≤95%
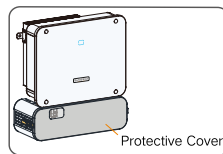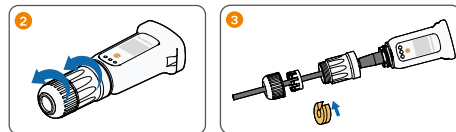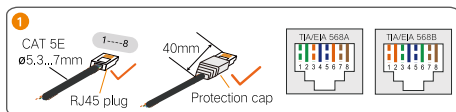
3 Installation (Choose one of the Two Methods)

• Installation with WLAN communication

① ②Click

• Installation with LAN communication

①

CAT 5E
ø5.3...7mm
RJ45 plug

40mm
Protection cap

TIA/EIA 568A
1 2 3 4 5 6 7 8
TIA/EIA 568B
1 2 3 4 5 6 7 8

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② ③ ④ ⑤Click

Protective Cover

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

Communication Module S/N
Multi-function Button
RUN WLAN LAN
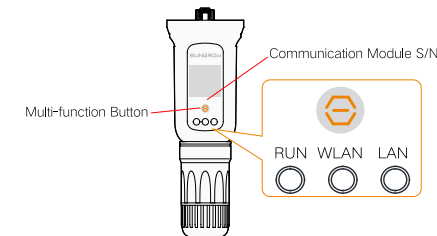
• Indicator Description

Indicator	Status	Description
RUN	Off	Disconnected from external power supply
	Slow blinking (Green)	Normal operation
	Fast blinking (Green)	Networking mode（Successfully connected with the wireless meter）
	Steady on (Red)	Fault
WLAN	Off	No WiFi connection
	Steady on	Connected to WiFi
	Slow blinking	Data communication in progress via WiFi
	Fast blinking	In EasyConnect mode (wireless hotspot is off only at this time)
	Fault blinking	No data communication after the WiFi connection is established for 1 min
LAN	Off	No Ethernet connection
	Steady on (Green)	Normal Ethernet connection
	Blinking (Red)	Data communication in progress via Ethernet
	Fault blinking	No data communication after the WiFi connection is established for 1 min

Note: The slow blinking interval is 1s, and network indicators blink slowly when the communication is in process. They are steady on if there is no data communication. The fast blinking interval is 0.2s.
Fault blinking is defined as off for 3 s and on for 1s, and repeats.Network indicators stop fault blinking if the fault is cleared.

• Multi-function Button Description

Operation	Description
Press and hold for over 30 s	Restore default values
Press and hold for 5 - 10 s	The device is in networking mode
Short press once	Enter SmartConfig mode
Short press three times	Exit SmartConfig mode

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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.

  • 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) Connect your PC or iPad to the WLAN hotspot named "SG-WiNet-S2 communication module S/N".

2) 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".
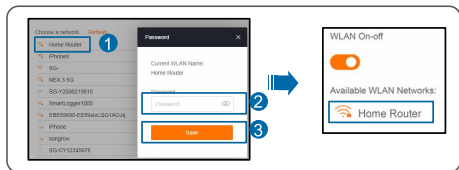
3) Click "System-> Port Parameter ->WLAN." Find the home router network in the list of available WLAN networks nearby.

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

5) 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.
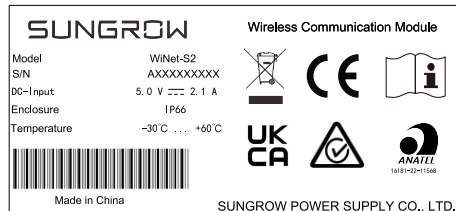
• Initial grid connection via the built-in Web

1) Refer to Steps 1 to 2 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.

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

SUNGROW

Sungrow Power Supply Co., Ltd.

www.sungrowpower.com

MH00269108-6

QEN M-H-002691

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6 Performance Parameters

• Nameplate

Wireless Communication Module

Model	WiNet-S2
S/N	AXXXXXXXXX
DC-Input	5.0 V ⎓ 2.1 A
Enclosure	IP66
Temperature	−30℃ … +60℃

Made in China

SUNGROW POWER SUPPLY CO., LTD.

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
	UKCA mark of conformity
	RCM mark of conformity
	ANATEL mark of conformity

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• Wireless Transmit Power

Mode	TRP
802.11b	⩽ 20.5 dBm
802.11g	⩽ 20 dBm
802.11n HT40	⩽ 18.5 dBm
802.11n HT20	⩽ 19 dBm

• Wireless Operating Frequency

Parameter	Value
Operating frequency	2412 MHz ~ 2484 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 1 min and then turns to fault blinking	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 or 16668 is not blocked. 4) Check whether the S/N of the communication device is input correctly 5) If the fault still persists, contact SUNGROW.
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.

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No.	Fault	Corrective Measure
5	LAN indicator is on for 1 min and then turns to fault blinking	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.