

# ShineWiFi-X

## User Manual



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# **1. Product Overview**

ShineWiFi-X is compatible with all Growatt on-grid inverters equipped with the USB port, which enables remote monitoring and maintenance of PV systems through WiFi connection.

- > Supports mobile APP and Server web page monitoring
- > Supports remote configuration and firmware upgrade
- > Supports local data saving and breakpoint retransmission

### 2. Product Appearance



### 3. System Diagram



# 4. Installation and configuration

#### 4.1 Installation instructions

1. Twist counterclockwise to remove the cover of the USB port on the inverter;

2.Rotate the lock on the upper end of the datalogger until the triangle icon is facing upward;

3.Align the datalogger with the inverter's USB port, ensuring that the triangle icon is facing upward and centered; press the lock and rotate clockwise until it is tightened.



4.2 Turn on the inverter and check the status of ShineWiFi-X

After installing the ShineWiFi-X module, turn on the inverter. If the indicator is flashing red, it indicates that the communication between the inverter and ShineWiFi-X is normal. The LED status meanings are shown below:

LED status	Indication
Off	Fails to connect to the inverter
Flashing red	Successfully connected to the inverter
Flashing green	Successfully connected to the inverter and the router
Flashing blue	Successfully connected to the inverter, the router and ShineServer

#### 4.3 Data logger configuration

1.Scan the QR code below to download ShinePhone, or you can search for ShinePhone in Apple Store or Google Play, then download and install it.

2.Once the APP is installed, you can configure the datalogger and add the PV plant as prompted. For details about configuring the datalogger, refer to ShineWiFi-X Configuration Guide. Scan the QR code below to download the documentation.



【ShinePhone APP】



[ShineWiFi-X Configuration Guide]

#### 4.4 ShineWiFi-X Button Description

Operation	Description
After ShineWiFi-X is powered on, press the button. (The indicator will change from flashing to steady-on)	ShineWiFi-X will enter the AP mode, which is a debug mode intended only for use by professionals.
When ShineWiFi-X is in AP mode, press the button. (The indicator will change from steady-on to flashing)	Exit AP mode
Press and hold the button for 6s until the indicator displays three colors (red, green and blue) at the same time, then release the button	Restore ShineWiFi-X to factory settings

#### 4.5 Troubleshooting

LED status	Indication	Troubleshooting
Flashing red	ShineWiFi-X is successfully connected to the inverter	The initial network configuration is normal. Please continue with the network configuration process
Flashing blue	ShineWiFi-X is successfully connected to the inverter, the home router, and Growatt ShineServer	Operating properly
Steady blue	ShineWiFi-X module is in AP mode	Configure in Hotspot mode. Please continue with the configuration process. If you do not need to configure the network, press the button to exit the mode.
Flashing green	ShineWiFi-X is successfully connected to the home router, but fails to connect to Growatt ShineServer	(1)Check if the home router is connected to the internet (2)Check if the router firewall is blocking Port 5279 or Port 5280
Steady green	ShineWiFi-X fails to connect to the home router	<ul> <li>(1)Check the router</li> <li>a)The router's name should be a combination of English letters and numbers; special symbols are not allowed: (<sup></sup> €¥)</li> <li>b)For security reasons, please use the encrypted wireless network c)It does not support public network that uses secondary authentication</li> <li>(2)Check if you had entered the correct name and password of the home router when configuring it</li> </ul>

LED status	Indication	Troubleshooting
Steady Red	ShineWiFi-X module is faulty	Replace the ShineWiFi-X module
Off	ShineWiFi-X fails to connect to the inverter	Reconnect the ShineWiFi-X module to the USB port

# 5. Specification

Туре	ltem	Parameter
General parameters	Dimensions (L*W*H)	122mm/47mm/32mm
	Manual language	Chinese, English
	Degree of Protection	IP65
	Data transmission interval	5 Min
Wireless parameters	Certificates	CE, UKCA, RoHS
	Supported standards	802.11 b/g/n
	Supported frequencies	2.4GHz ~ 2.5GHz
	Maximum output power	+20dBm
	Dessionersitisite	CCK, 1 Mbps :-90dBm CCK,11 Mbps:-85dBm 6 Mbps (1/2 BPSK): -88dBm
	Receiver sensitivity	54 Mbps (3/4 64-QAM): -70dBm HT20, MCS7 (65 Mbps, 72.2 Mbps):-67dBm
	Encryption mechanism	WPA, WPA2, WPA/WPA2

Туре	ltem	Parameter
Wireless parameters	Transmit power	802.11b:16±2 dBm (@11Mbps) 802.11g:14±2 dBm (@54Mbps) 802.11n:13±2 dBm (@HT20, MCS7)
Electrical parameters	Data rate	USART: 9600bps/38400bps/115200bps
	Nominal voltage	5V(±5%)
	Nominal current	1A
	Operating temperature	-20℃ ~ +65℃
	Storage temperature	-40℃ ~ +85℃
	Relative humidity	5%RH~95%RH
	Operating altitude	≤3000m
Application parameters	Supported server	ShineServer
	Communication with the inverter	USB(Modbus RTU protocol)
	Communication with the server	TCP(Modbus TCP protocol)

# 6. Declaration of conformity

This product complies with the following regulations and requirements:

- Electromagnetic Compatibility Directive:2014/30/EU (EMC)
- > Radio Equipment Directive: 2014/53/EU (RED)
- Electrical Equipment (Safety) Regulations 2016:2014/35/EU(LVD)
- Restriction of Hazardous Substances Directive: 2011/65/EU(EU) and 2015/863 (RoHS)

You can download the Declaration of Compliance at https://www.ginverter.com.

# 7. Contact

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For local customer support, please visit https://www.ginverter.com/support/contact



<b>W</b> arning	<ul> <li>This product can only be powered by the USB port of Growatt inverters. Do not connect it to other USB ports or adapters.</li> <li>If the inverter displays a low insulation resistance alarm, it indicates that a ground fault might have occurred in the chassis. Do not connect the data logger to the</li> <li>inverter or perform other operations to avoid personal injury</li> </ul>
	<ul> <li>Do not use this product in places where the use of wireless devices is not allowed.</li> <li>Do not try to repair or modify the equipment by yourself. If you need any support, please contact us.</li> </ul>