GROWATT

Shine WiFi-X
User Manual

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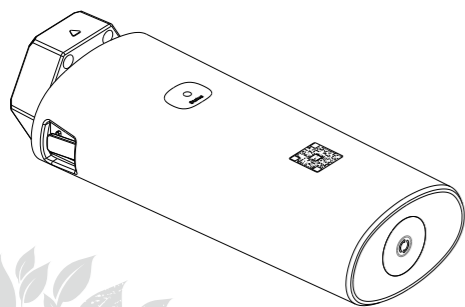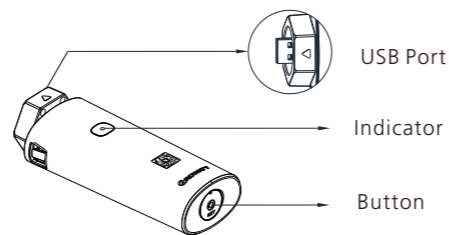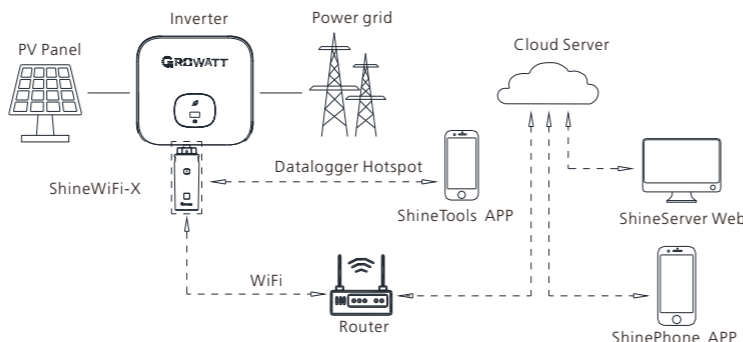## 1. Product Overview

ShineWiFi-X is compatible with all on-grid inverters with USB port, which enables remote monitoring and maintenance of PV systems through WiFi connection.
➢ Support mobile APP and server web page monitoring
➢ Support local commissioning and firmware upgrade
➢ Supports local data saving and breakpoint retransmission
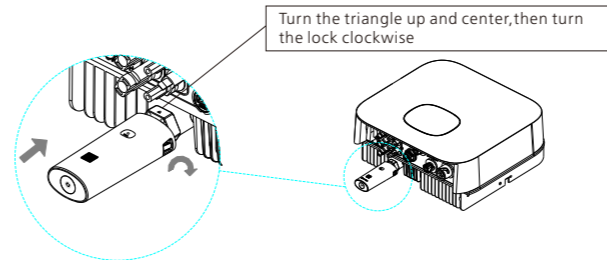
2. Product Appearance

USB Port

Indicator

Button

3. System Diagram

Inverter
Power grid
PV Panel
Cloud Server
ShineWiFi-X
Datalogger Hotspot
ShineTools APP
ShineServer Web
WiFi
Router
ShinePhone APP

4. Installation and configuration

4.1 Installation instructions

1.Rotate the USB cover of the photovoltaic device counterclockwise;
2.Rotate the datalogger locker on the upper, make sure the triangle is on the front side and in the middle;
3.Connect the datalogger to the inverter USB port, make sure the triangle is on the front side,press the the locker and rotate clockwise until it is tighten.

Turn the triangle up and center,then turn the lock clockwise

4.2 Turn on inverter and check ShineWiFi-X state

After install the ShineWiFi-X module, turn on the inverter, red LED flashing indicates the inverter and ShineWiFi-X communication is normal. The following is the status description of LED lights:

LED status	Indication
LED off	ShineWiFi-X not connected well with inverter USB port
Red LED flashes	ShineWiFi-X and inverter communication is OK
Green LED flashes	ShineWiFi-X, inverter and router communication is OK
Blue LED flashes	ShineWiFi-X, inverter, router and ShineServer communication is OK

4.3 Data logger configuration

1.Scan the QR code below to download ShinePhone, also you can search ShinePhone in Apple Store or Google Play, download and install it.
2.After the APP is installed, you can follow the steps prompted on the APP interface to complete the datalogger configuration and build the PV plant. If there is any doubt in the configuration process, please refer to the 《ShineWiFi-X Configuration Guide》, which can be downloaded by scanning the QR code.

【ShinePhone APP】 【ShineWiFi-X Configuration Guide】

4.4 ShineWiFi-X Button Description

Operation	Description
When ShineWiFi-X is powered on, and press the button. (ShineWiFi-X LED will change from flash to always ON)	ShineWiFi-X will enter to APmode.(AP mode is a debug mode, only allowed for professional)
When ShineWiFi-X in AP mode, press The button of ShineWiFi-X (ShineWiFi-X LED will change from always ON to flash)	Quit AP mode
Press and hold the button for 6s until the three LEDs (red, green and blue) light up at the same, then release	Reset ShineWiFi-X to Factory settings

4.5 Troubleshooting

LED status	Indicate	Troubleshooting
Red LED flashes	ShineWiFi-X can't connect to the home router	If the initial network configuration is normal, continue with the network configuration process
Blue LED flashes	ShineWiFi-X communication OK with inverter,home router, and Growatt ShineServer	Normal working state
Blue LED always ON	ShineWiFi-X module is in AP mode	Debug mode, short press the KEY button to quit
Green LED flashes	ShineWiFi-X already connected to the home router, but not connected To Growatt ShineServer	(1)Check if home router is connected to the internet (2)Check if the router firewall allows to select port 5279 and 5280
Green LED always ON	ShineWiFi-X can't connect to the home router	(1)Check router information a)Router name should consist of English letters and numbers, it does not support special symbols b)For safety reason, please use encrypted wireless network c)It does not support public network that use secondary authentication (2)Check if you filled in the correct name and password of the home router when configuring it
Red LED always ON	ShineWiFi-X module error	Need to replace with a new ShineWiFi-X
LED off	ShineWiFi-X can not find inverter via USB port	Try to reconnect ShineWiFi-X to the inverter USB port

5. Specification

Type	Item	Parameter
General parameters	Long/Wide/High	122mm/47mm/32mm
	Manual language	Chinese、 English
	Protection grade	IP65
	Data transmission interval	5 Min
Wireless parameters	Certificates	CE、UKCA、RoHS
	Wireless standard	802.11 b/g/n
	Wireless frequency range	2.4GHz～ 2.5GHz
	Maximum output power	+20dBm
	Sensitivity of reception	CCK, 1 Mbps :-90dBm CCK,11 Mbps:-85dBm 6 Mbps (1/2 BPSK): -88dBm
		54 Mbps (3/4 64-QAM): -70dBm HT20, MCS7 (65 Mbps, 72.2 Mbps):-67dBm
	Launch power	802.11b:16±2 dBm (@11Mbps) 802.11g:14±2 dBm (@54Mbps) 802.11n:13±2 dBm (@HT20, MCS7)
	Encryption scheme	WPA、WPA2、WPA/WPA2

Type	Item	Parameter
Electrical parameters	Data rate	USART: 9600bps/38400bps/115200bps
	Nominal voltage	5V(±5%)
	Nominal current	1A
	Working temperature	-20℃ ~ +65℃
	Storage temperature	-40℃ ~ +85℃
	Working humidity	5%RH～95%RH
	Elevation	≤3000m
Application parameters	Supported servers	ShineServer
	Inverter communication	USB(Modbus RTU protocol)
	Server communication	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 instruction: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.growatt.com.

7. After-sales service Contact

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