ShineWeLink

User Manual

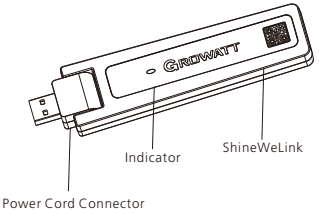


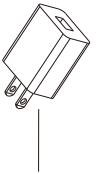
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1. Product Overview

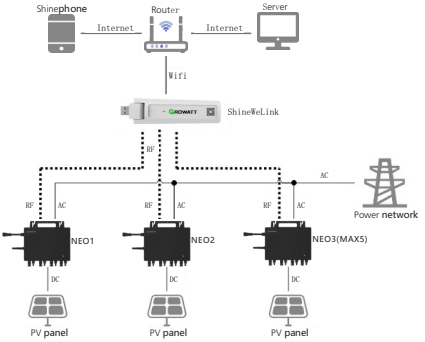
ShineWeLink adopts the device-gateway-server-client architecture model,and connects the inverter device and server to realize all the functions of monitoring,analysis and scheduling. Among them, ShineWeLink acts as a gateway in the system,which can connect the inverter through radio frequencys,connect the router to the Internet through WiFi,and connect to the server to realize cloud monitoring of inverter data.

2. Product Appearance





3. System Diagram



The application scenario is that a ShineWeLink simultaneously monitors three new-generation micro-inverter series products.

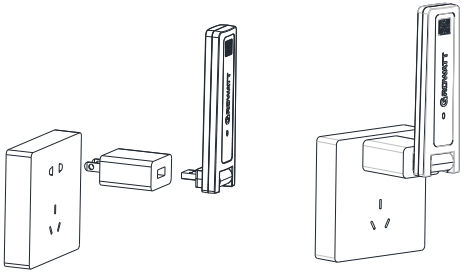
4. Installation and configuration

Note:

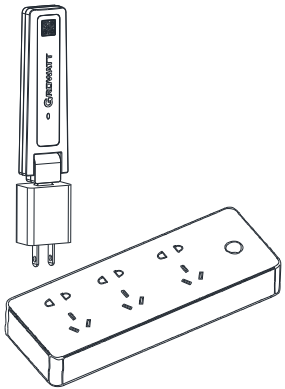
1. Make sure to read the guide before installation in order to understand product information and safety precautions;
2. Build shade and rain shelters to avoid direct exposure to sunlight and rain.

Installation process:

1. Connect ShineWeLink to the adapter, and plug the adapter into the socket on the wall, and install the ShineWeLink outward at 90 degrees.



2. Plug ShineWeLink and adapter directly into the power board.



Precautions

1. When installing ShineWeLink, try not to be close to metal, etc., so as not to affect the signal.
2. The distance between ShineWeLink and the inverter.
3. When the monitoring is abnormal, you can check the status of the indicator light.

5. Working method

5.1 Display and Settings

ShineWeLink has a colored indicator light, which can be connected to multiple devices to work at the same time. The working status of the device can be monitored through the platform, and can also be realized through the basic indicator light and local settings of the device. The LED light status of ShineWeLink indicates the current working condition, as shown in the table below :

LED status	Indication	Troubleshooting
Red light	ShineWeLink is not connected to router	(1) Check router information: a) The wireless name and password of the router should be composed of English,numbers or punctuation marks,etc b) For security reasons, please use encrypted wireless network. c) The network does not currently support secondary authentication. d) Bridged wireless signals are not supported yet. (2) Check if you filled in the correct name and password of the router when configuring it.
Green light	ShineWeLink is connected to the router but not to the server	(1) Check if the router is connected to the Internet. (2) Whether the router restricts the server and port number, ShineWeLink needs to use port 7006.
Blue light	ShineWeLink is connected to the server	Connect to routers and server normally
Any color light is always on	No device connected to ShineWeLink	Need to pair device
Any color light flashes periodically (flashing within 0.5s, then off for 2s, this is a cycle)	There are already devices connected to the ShineWeLink host, and the number of flashes in a cycle indicates the number of devices connected to ShineWeLink	Connect to the device normally

6. Troubleshooting

LED status	Working conditions	Quick check
Steady red light	ShineWeLink is not connected to the router, no device is connected to ShineWeLink	(1) Continue with the network configuration process. (2) Pair device.
Steady green light	ShineWeLink is connected to the router, not connected to the server, and no device is connected to ShineWeLink	(1) Check if the router is connected to the Internet. (2) Whether the router restricts the server and port number, ShineWeLink needs to use port 7006. (3) Pair device.
Steady blue light	ShineWeLink is connected to the server, no device is connected to ShineWeLink	(1) Connect to routers and server normally. (2) Pair device.
Flashing red light	ShineWeLink is not connected to the router, there are already devices connected to ShineWeLink	Continue with the network configuration process
Flashing green light	ShineWeLink is connected to the router, not connected to the server, and there are already devices connected to ShineWeLink	(1) Check if the router is connected to the Internet. (1) Whether the router restricts the server and port number, ShineWeLink needs to use port 7006.
Flashing blue light	There are already devices connected to ShineWeLink	Connect to routers and server normally

7. Specification

Type	Item	Parameter
General parameters	Appearance (Length / Width / Height)	(137*35*14.5mm)
	Weight	37.9g
	User Manual Language	Chinese、English
	Power supply	5V
	Power consumption	2.5W
	Working temperature	-20℃ ~+65℃
	Storage temperature	-40℃ ~+70℃
	Protection grade	Ip20
	Relative humidity (non-condensing)	5%RH~95% RH
	Installation method	USB direct plug
	Certificates	RoHS、FCC、ANATEL
Device management	Number of managed devices	5
	Communication method	LoRa
	RF wireless maximum communication distance	200m (50m when through the wall)
	Internet access	Wi-Fi

Type	Item	Parameter
Wireless parameters (standard & frequency band)	RF-LoRa	RF-LoRa1 Frequency range:860-930MMHz (868/915MHz LoRa)
		Maximum output power :868MHz 14dBm/915MHz 17dBm
	BLE	accord with BlueTooth V4.2(2.4GHz)
	Wi-Fi	Frequency range: 2412~2484MHz\(2.4GHz WWiFi)
		Support 802.11 b/g/na agreement transmission speed 150Mbpse
		Maximum output power 19.5dBm, Receive sensitivity -97dBm
Application parameters	User configuration	APP configuration
	Data transmission interval	5 minutes

8. Datalogger 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 doubting the configuration process, please refer to the 《ShineWeLink Configuration Guide》, which can be downloaded by scanning the QR code.

【ShinePhone APP】

【ShineWeLink Configuration Guide】

9. Declaration of conformity

This product complies with the following regulations and requirements:

- Restriction of Hazardous Substances Directive:2011/65/EU(EU) and 2015/863(RoHS)
- FCC CFR Title 47, Part 15,Subpart B
- 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.

10. After-sales service Contact

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www.ginverter.com

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

Download Manual

Growatt New Energy

Warning	• Do not use this product in places where the use of wireless devices is not allowed. • Do not try to repair or modify the equipment by yourself. If you need any support, please contact us.