Manuals+ — User Manuals Simplified.

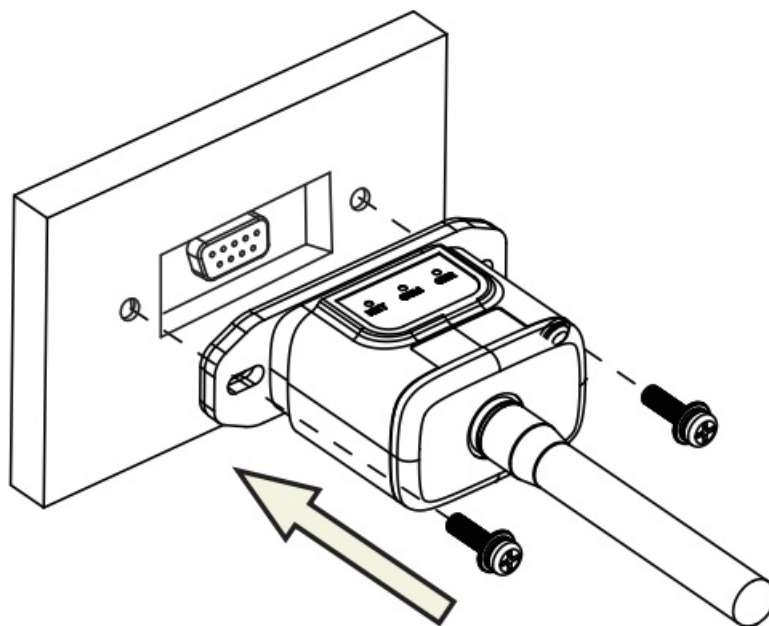# invt LSW-3 Stick Logger User Manual
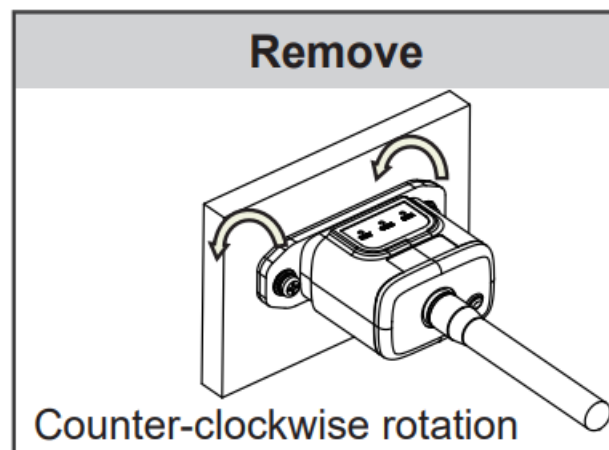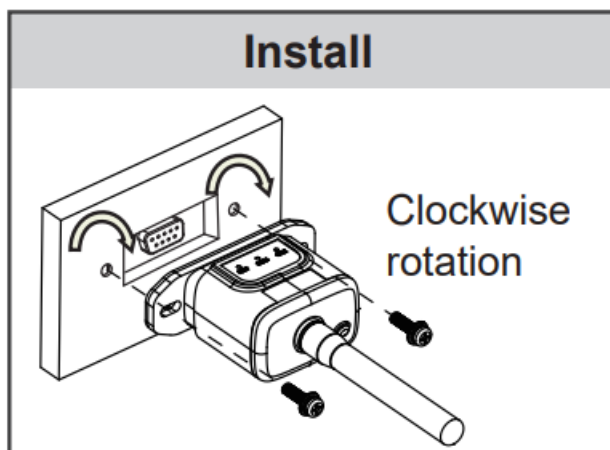
Contents

invt LSW-3 Stick Logger

Stick logger installation

1. Step1: Assemble logger to the inverter communication interface as shown in the diagram.

2. Step2: Install/Remove

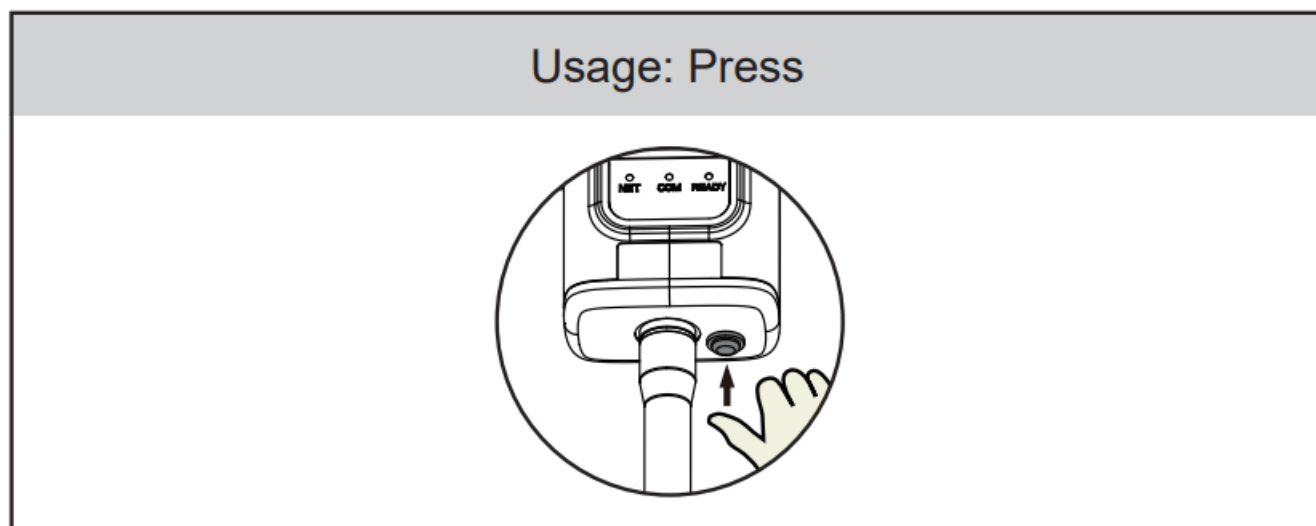| Install	Remove
Clockwise rotation	Counter-clockwise rotation

Warning:
Please do not hold the logger body to rotate while install or remove the logger.

Operations and notices for Reset button

Operations and key-press descriptions for Reset button

Usage: Press

Notices for Reset button

Notice: Do not remove waterproof plug.

Set WiFi connection on PC

**Notice:** The setting hereinafter is operated with Windows XP for reference only. If other operating systems are used, please follow the corresponding procedures.

1. Prepare a computer or device with WiFi, e.g. tablet PC and smartphone with WiFi function.
2. Obtain an IP address automatically.
3. Set WiFi connection to the logger.

Open wireless network connection and click View
Wireless Networks:
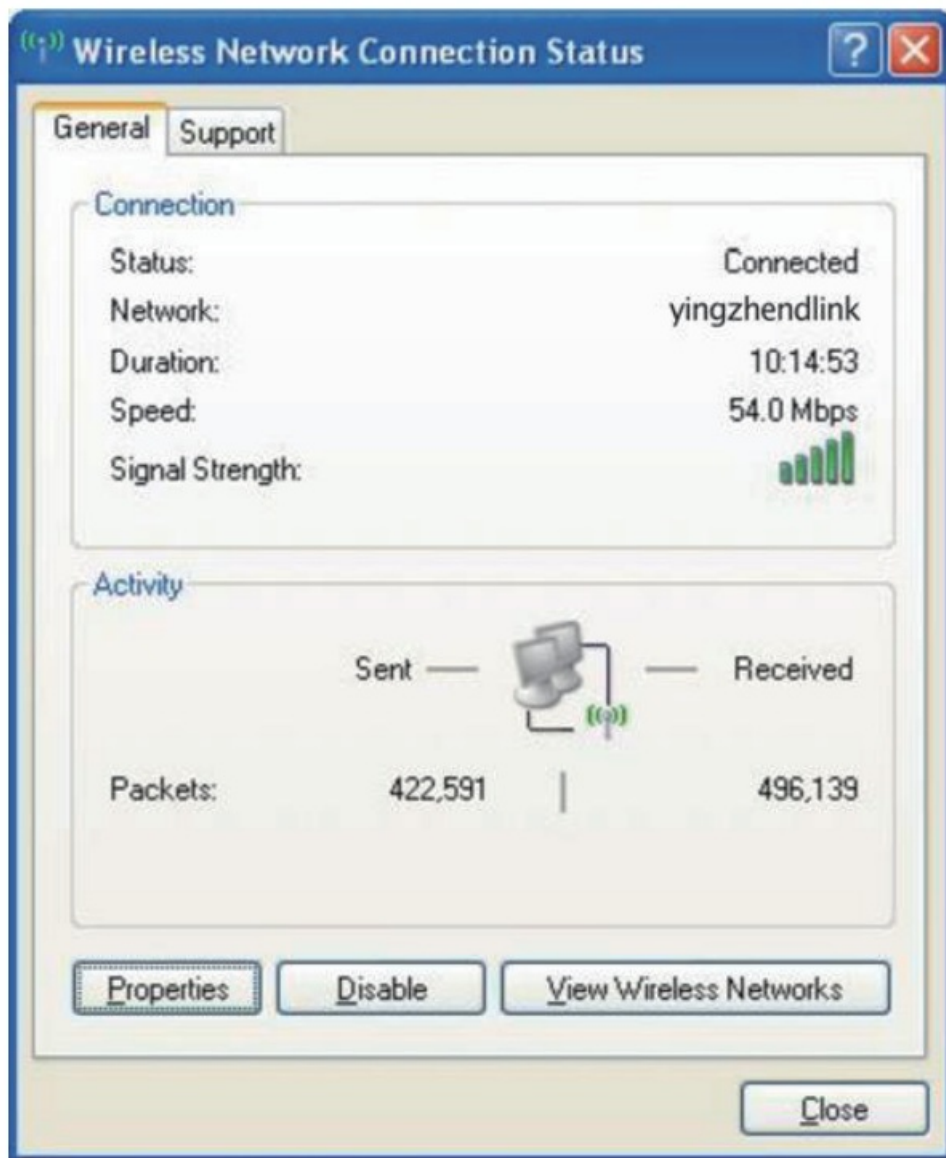
Select wireless network of the logger. The network name consists of AP and the serial number of the product. Input the password shown on the logger. Then click Connect.
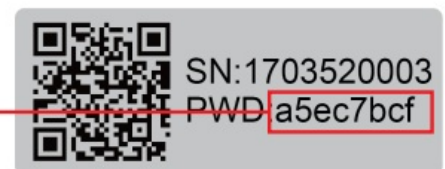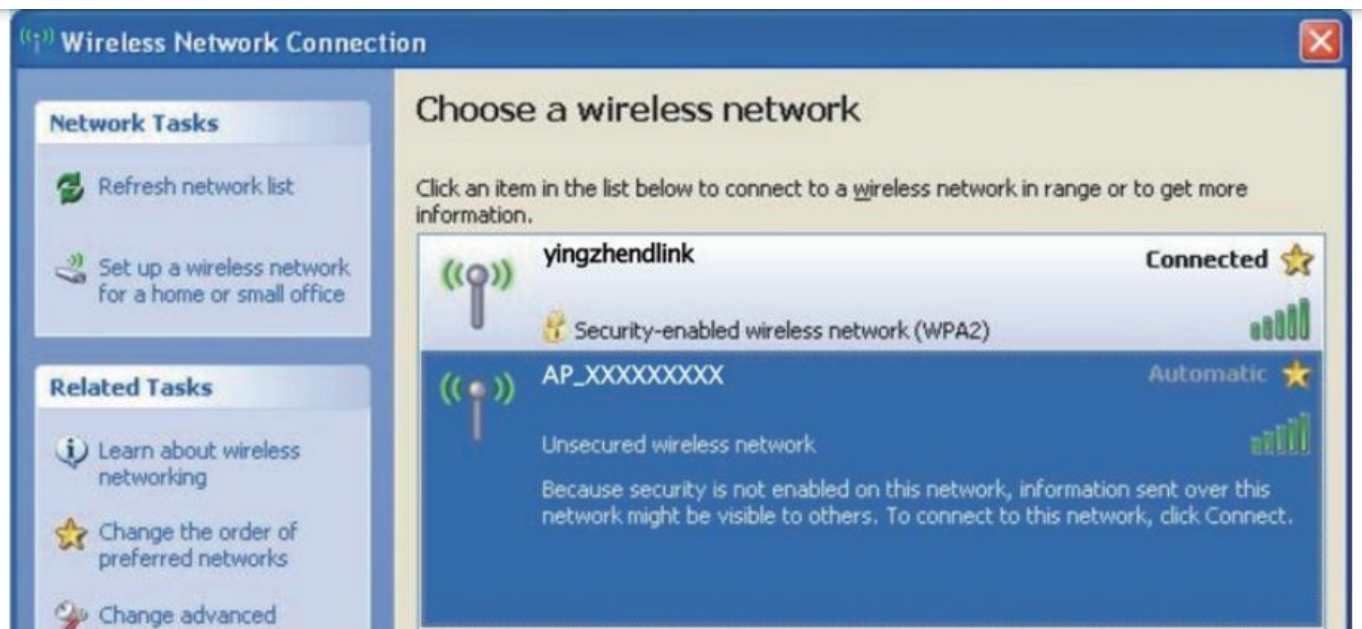
Notice: If AP_(serial number of product) is not available in the wireless network list, there may be problems in the connection or setting of logger. Please wait several minutes to refresh the list or plug in the logger again.

Set parameters of logger

Open a web browser, and enter 10.10.100.254, then fill in username and password, both of which are admin as default.

Recommended browsers: Internet Explorer 8+, Google Chrome 15+, Firefox 10+
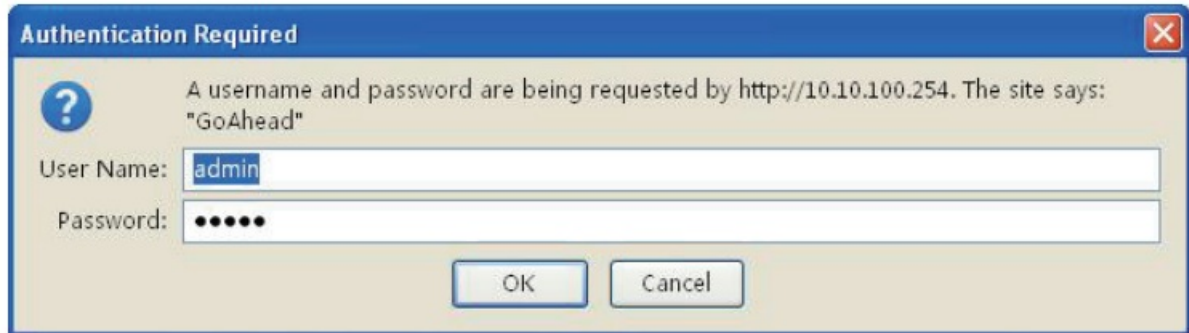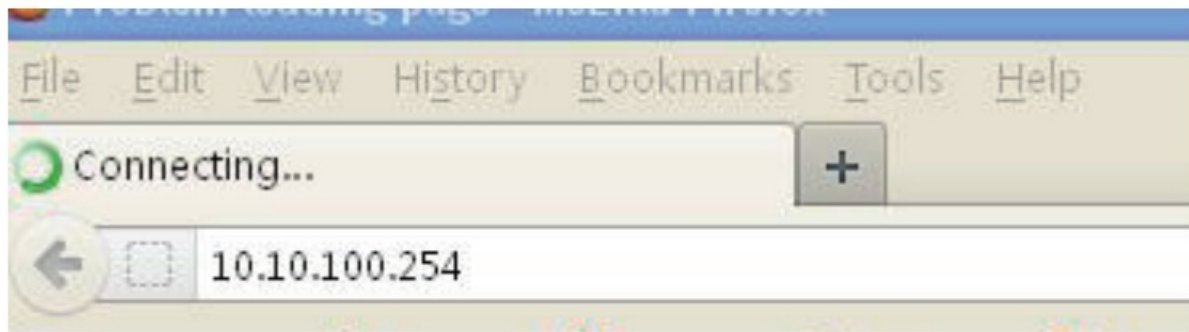
In the Status page, you can view general information of the logger.
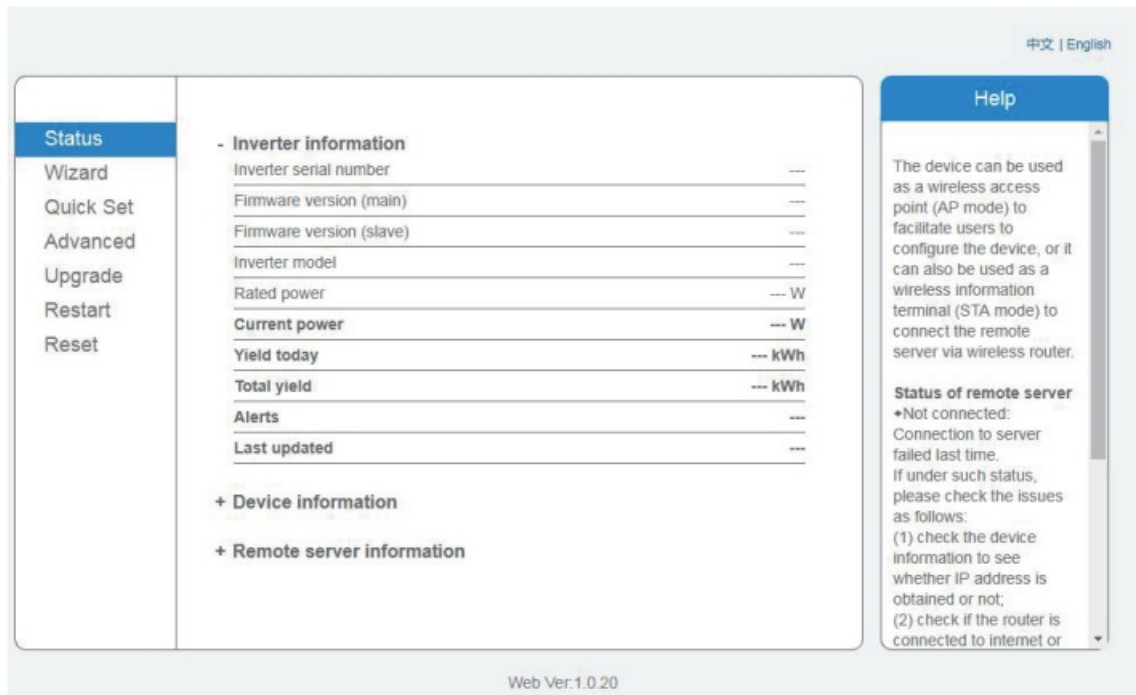
Follow the setup wizard to start quick setting.

- **(a)** Click Wizard to start. Select the wireless network you need to connect, then click Next.

Status
Wizard
Quick Set
Advanced
Upgrade
Restart
Reset

Please select your current wireless network:

Site Survey

SSID	BSSID
○ R&D	A4:99:47:29:67:F0
○ HF-2405000501	98:D8:63:F:6F:33
○ AP_711241528	98:D8:63:F:6D:67
○ BYD_902000501	98:D8:63:F:6D:E3
○ IGEN-HILINK	94:77:2B:49:1F:5C
○ AP_711161522	98:D8:63:F:6D:CB
○ TP-LINK 3	48:7D:2E:62:16:2D
○ null	5A:56:5A:10:C:65

★Note: When RSSI of the selected WiFi network is lower than 15%, the connection may be unstable, please select other available network or shorten the distance between the device and router.

Refresh

Add wireless network manually:

Network name (SSID)
(Note: case sensitive)   NETGEAR-TEST

Encryption method Disable ▼

Next

1   2   3   4

Notice: If the signal strength (RSSI) of the selected network is <15%, which means unstable connection, please adjust the antenna of the router, or use a repeater to enhance the signal. The SSID of your selected router network should be less than 30 characters, in which blank space should not be included.

- **(b)** Enter the password for the selected network, select Enable to obtain an IP address automatically, then click Next.

Notice: Router password cannot be recognized if it contains any character such as '&', '#', '%', and blank space. The password is being verified, please wait for a while. If you have entered an invalid password or encryption method, an error notice will pop up.

- **(c)** Enhance security settings of the WiFi logger by selecting any options as listed, then click Next.

- **(d)** If setting is successful, the following page will display. Click OK to restart.

Status	**Setting complete!**	**Help**
Wizard		After clicking OK, the system will restart immediately.
Quick Set		
Advanced		
Upgrade		
Restart	Click OK, the settings will take effect and the system will restart immediately.	
Reset		
	If you leave this interface without clicking OK, the settings will be ineffective.	
	Back　**OK**	
	1　2　3　4	

- **(e)** If restart is successful, the following page will display. If this page does not display automatically,please refresh your browser.

Status	**Setting complete! Please close this page manually!**	**Help**
Wizard		★Note: The IP address of the device may have changed, please refer to User Manual to check the procedures to obtain the new IP address.
Quick Set		
Advanced		
Upgrade		
Restart	Please login our management portal to monitor and manage your PV system.(Please register an account if you do not have one.)	
Reset		
	To re-login the configuration interface, please make sure that your computer or smart phone and our device are in the same network segment, and enter the new IP address of the device to access the interface.	

- **(f)** Re-log in this setting page to Status page after the Web server restart, and check the network connection status of the logger.

Status		
Wizard	**Device information**	
Wireless	Device serial number	603040574
Cable	Firmware version	H4.01.40Y2.0.02W1.0.03
Advanced	Wireless AP mode	**Enable**
Upgrade	SSID	AP_603040574
Restart	IP address	10.10.100.254
Reset	MAC address	AC:CF:23:10:F3:48
	Wireless STA mode	**Enable**
	Router SSID	yingzhendlink
	Signal Quality	76%
	IP address	192.168.1.130
	MAC address	AC:CF:23:10:F3:49
	Cable mode	**Disable**
	IP address	
	MAC address	

Connected Inverter

Remote server information

Help

The device can be used as a wireless access point (AP mode) to facilitate users to configure the device, or it can also be used as a wireless information terminal (STA mode) to connect the remote server via wireless router.

Notice: After network setting is complete, the Wireless AP mode should be enabled and relative information of your router will display on the interface automatically. Besides the Remote server A should be connected.
If you meet any problems and need support, please provide the screenshot of the status page as shown below.

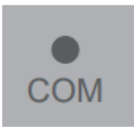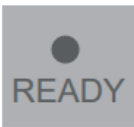| Status		
Wizard	- Inverter information	
Quick Set	Inverter serial number	---
Advanced	Firmware version (main)	---
Upgrade	Firmware version (slave)	---
Restart	Inverter model	---
Reset	Rated power	--- W
	Current power	--- W
	Yield today	--- kWh
	Total yield	--- kWh
	Alerts	---
	Last updated	---
	- Device information	
	Device serial number	515290981
	Firmware version	LSW3_10_5406_1.16_MW3
	Wireless AP mode	**Enable**
	SSID	AP_515290981
	IP address	10.10.100.254
	MAC address	f0:fe:6b:fa:6d:df
	Wireless STA mode	**Disable**
	Router SSID	
	Signal Quality	
	IP address	
	MAC address	
	- Remote server information	
	Remote server A	Not connected
	Remote server B	Not connected

The device can be used as a wireless access point (AP mode) to facilitate users to configure the device, or it can also be used as a wireless information terminal (STA mode) to connect the remote server via wireless router.

Status of remote server
◆Not connected:
Connection to server failed last time.
If under such status, please check the issues as follows:
(1) check the device information to see whether IP address is obtained or not;
(2) check if the router is connected to internet or not;
(3) check if a firewall is set on the router or not;

◆Connected:
Connection to server successful last time;

◆Unknown: No connection to server.Please check again in 5 minutes.

Logger Status

Check Indicator light

Lights	Implication	Status Description(All lights are single green lights.)
NET	Communication with router	1.Light off: Connection to router failed. 2.On 1s/Off 1s(Slow flash): Connection to router is successful. 3.Light keeps on: Connection to server is successful. 4.On 100ms/Off 100ms(Fast flash): Fast setting network.
COM	Communication with inverter	1.Light keeps on: Logger connected to inverter. 2.Light off: Connection to inverter failed. 3.On 1s/Off 1s(Slow flash): Communicating with inverter
READY	Logger running status	1.Light off: Running abnormally. 2.On 1s/Off 1s (Slow flash): Running normally. 3.On 100ms/Off 100ms(Fast flash): Restore factory settings.

Normal operation status of the stick logger is as follows, when router connected to the network normally:

1. Connection to server is successful: NET light keeps on after the logger powered on.

2. Logger is running normally: READY light flashes.

3. Connection to inverter is successful: COM light keeps on.

Troubleshooting

If the data on platform is abnormal when the stick logger is running, please check the status of indicator lights according to the table below for simple troubleshooting. If problems still cannot be solved or indicator lights status is different from the table below, please contact Customer Support.
(**Note:** Please wait for at leat 2 minutes after logger is powered on)

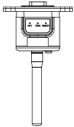| NET	COM	READY	Fault Description	Fault Cause	Solution
Any state	OFF	Slow flash	Communication with inverter abnormal	1.Connection between stick logger and inverter is loose. 2.Inverter does not match with stick logger's communication rate.	1.Check the connection between stick logger and inverter. Remove the stick logger and install again. 2.Check inverter's communication rate to see if it matches with stick logger's. 3.Long press Reset button for 5s, reboot stick logger.
OFF	ON	Slow flash	Connection between logger and router abnormal	1.Stick logger does not connect to network. 2.Antenna abnormal 3.Router's WiFi signal strength is weak.	1.Check if the wireless network is configured. 2.Check if the antenna is damage or loose. 3.Enhance router's WiFi signal strength. 4.Long press Reset button for 10s, reboot stick logger and networking again.
Slow flash	ON	Slow flash	Connection between logger and router normal, connection between logger and remote server abnormal.	1.Router's networking abnormal. 2.The server point of logger is modified. 3.Network is limited, server cannot be connected.	1.Check if the router has access to the network. 2.Check the router's setting to see if the connection is limited. 3.Contact our customer service.

NET ● NET	COM ● COM	READY ● READY	Fault Description	Fault Cause	Solution
OFF	OFF	OFF	Power supply abnormal	1.Connection between stick logger and inverter is loose or abnormal. 2.Power supply from inverter is in-sufficient. 3.Stick Logger abnormal.	1.Check the connection, remove the stick logger and install again. 2.Check inverter output power. 3.Contact our customer service.
Any state	Any state	Fast flash	Restore factory settings	Normal	1.Exit automatically after 1mins. 2.Long press Reset button for 5s, reboot stick logger. 3.Long press Reset button for 10s, restore factory settings.

Warning: Please make sure the stick logger is working properly before you leave the site. If there is anything abnormal, please do not leave the site and contact customer service at the first time.

If you have any technical queries about our products, please contact us and provide the following information:

1. Product model and serial number of stick logger.
2. Product model and serial number of connected inverter.

Documents / Resources

Stick Logger (WiFi)
Model : LSW-3

invt LSW-3 Stick Logger [pdf] User Manual
LSW-3 Stick Logger, LSW-3, Stick Logger, Logger