

- Note 1 X means uncertain status.
- Note 2 When screw or adjust the antenna, please note that only the metal part can be touched, and do not screw the plastic part, otherwise the antenna may be damaged.
- Note 3 If the equipment still fails to work upon above solutions, please contact your device customer service.



H:Contact

If any technical problems, please contact us, with the following information in hand:

- ◆ Device model
- ◆ Serial number of product

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Web: www.ginlong.com

Please record the serial number of your monitor and quote this when you contact us.



Quick Guide

Data Logging Box WiFi GL-WE01

Version: 1.2

From this page

Data Logging Box WiFi is an external data logger in the Ginlong monitoring series.

By connecting with single or multiple inverters through RS485/422 interface, the Kit can collect information of PV/wind systems from inverters. With the integrated WiFi function, the Kit can connect to router and transmit data to the web server, realizing remote monitoring for users. In addition, Ethernet is also available for connection to router, enabling transmission of data.

Users can check the runtime status of the device by checking the 4 LEDs on the panel, indicating Power, 485/422, Link and Status respectively.

A: Unpack

B: Install data logger

C: Connect data logger and inverters

D: Network setting

E: Create Solis Home account

F: Create plants

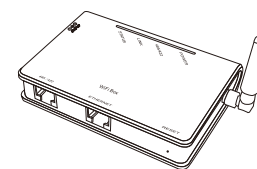
G: Trouble shootings

This Quick Guide is intended to assist users in quick installation and start of Data Logging Box WiFi. If any problem, please refer to corresponding chapters of [WiFi Box User Manual](#) for details.

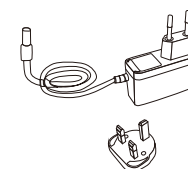
A:Unpack

1. Checklist

After unpacking the box, please make sure all the items are contained as follows:



① 1 PV/wind data logger (Data Logging Box WiFi)



② 1 power adapter with European or British plug



③ 2 screws

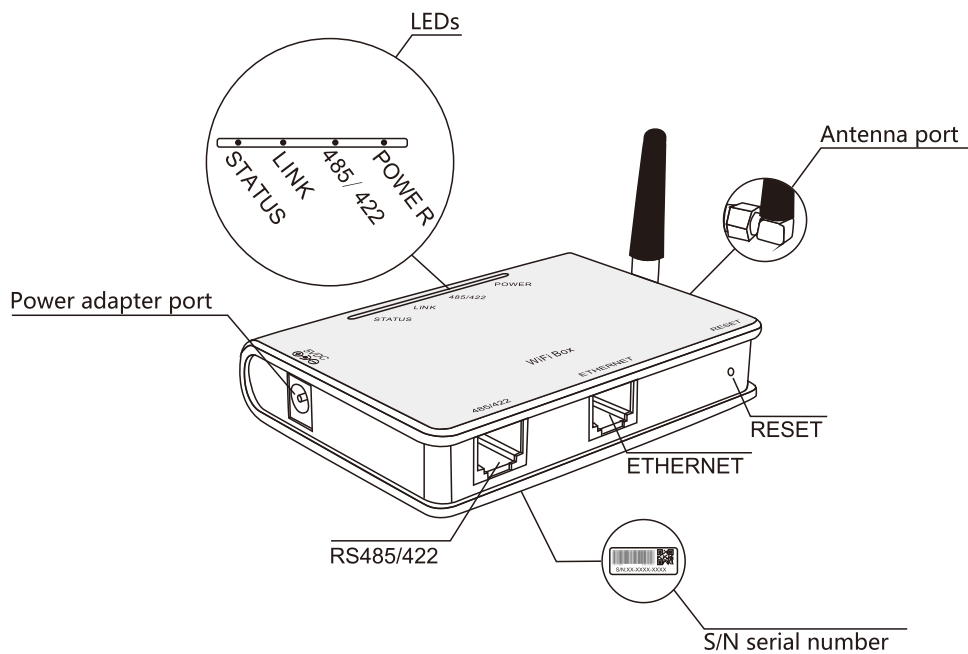


④ 2 expandable rubber hoses



⑤ 1 Quick Guide

2. Interface and connection



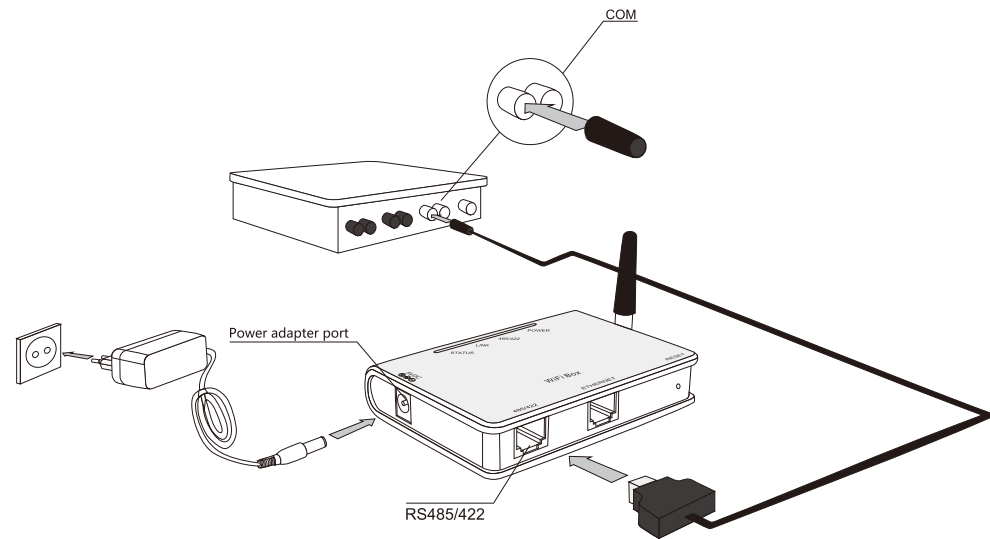
B:Install data logger

WiFi Box can be either wall-mounted or flatwise.

C:Connect data logger and inverters

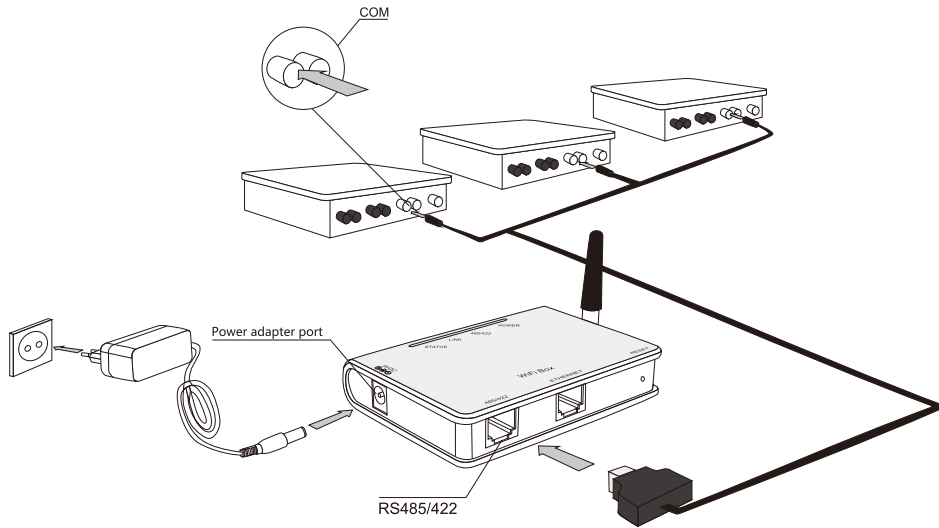
Notice: Power supply of inverters must be cut off before connection. Make sure that all connections are completed, then power the data logger and inverters, otherwise personal injury or equipment damage may be caused.

1. Connection with single inverter



Connect inverter and data logger with 485 cable, and connect data logger and power supply with power adapter.

2. Connection with multiple inverters



- 1.Parallel connect multiple inverters with 485 cables.
- 2.Connect all inverters to data logger with 485 cables.
- 3.Set different address for each inverter. For example, when connecting three inverters, the address of first inverter must be set as "01", the second must be set as "02", and the third must be set as "03" and so on.
- 4.Connect data logger to power supply with power adapter.

3. Confirm connection

When all connections are finished and with the power on for about 1 minute, check the 4 LEDs. If POWER and STATUS are permanently on, and LINK and 485/422 are permanently on or flashing, connections are successful. If any problems, please refer to G:Debug.

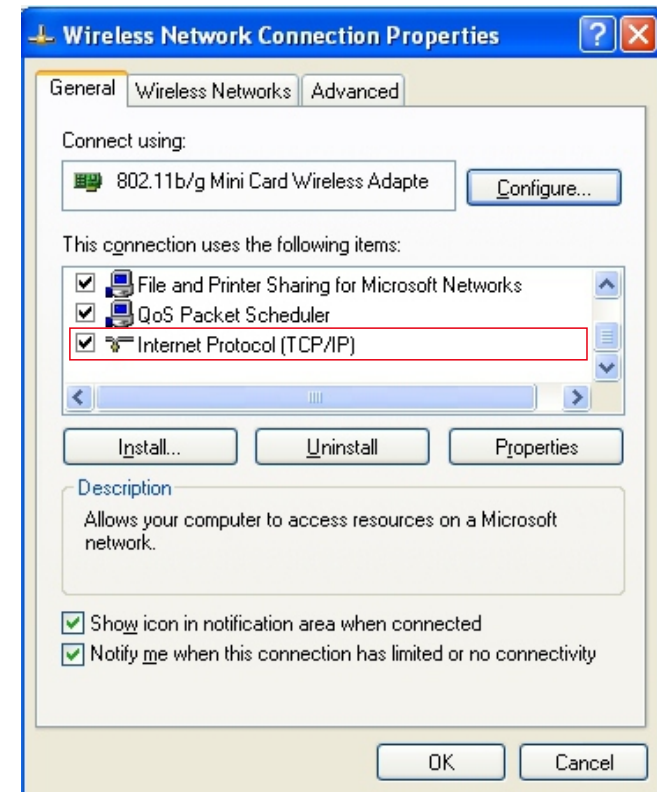
D:Network setting

WiFi Box can transfer information via either WiFi or Ethernet, users may choose the appropriate method accordingly.

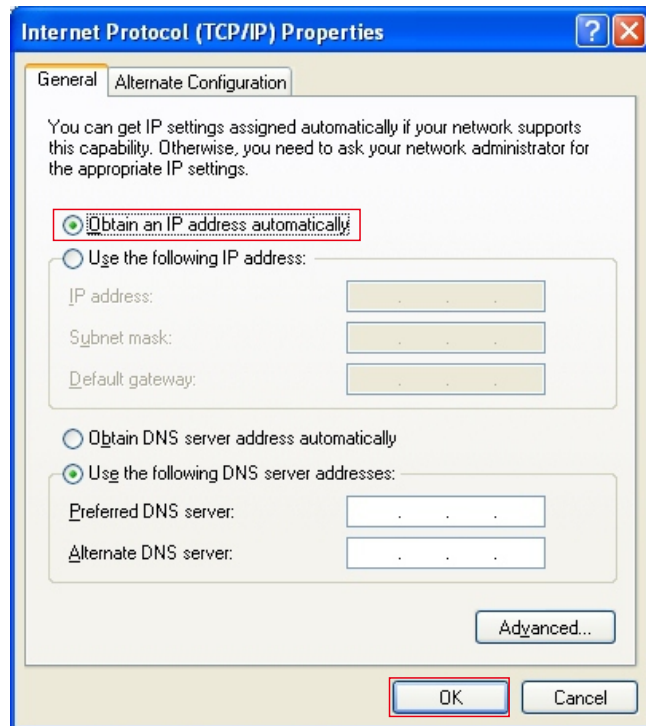
I. Connection via WiFi

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

1. Prepare a computer or device, e.g. tablet PC and smartphone, that enables WiFi.
2. Obtain an IP address automatically
 - ① Open [Wireless Network Connection Properties](#), double click [Internet Protocol \(TCP/IP\)](#).

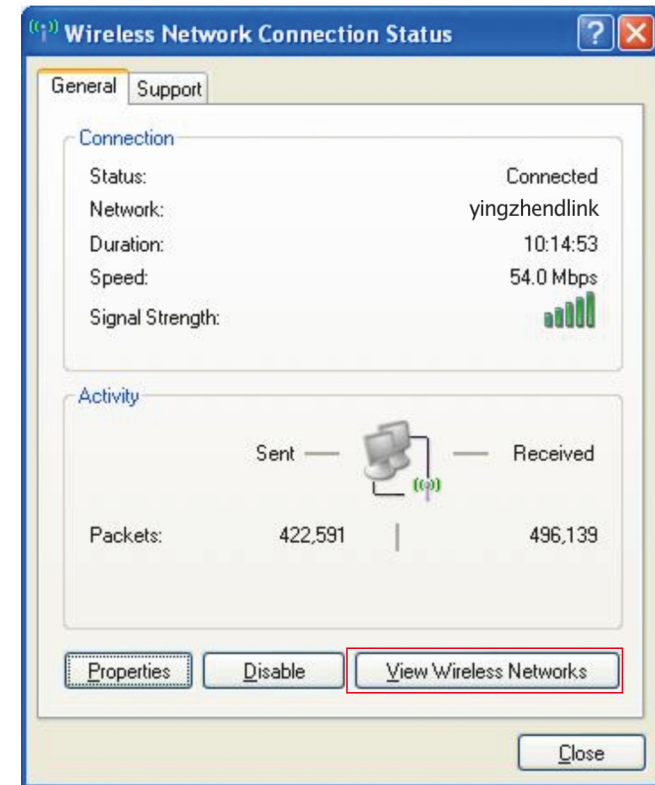


- ② Select **Obtain an IP address automatically**, and click **OK**.

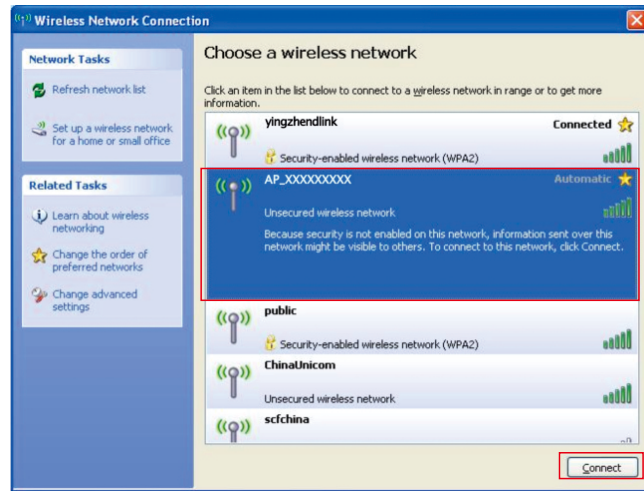


3. Set WiFi connection to the data logger

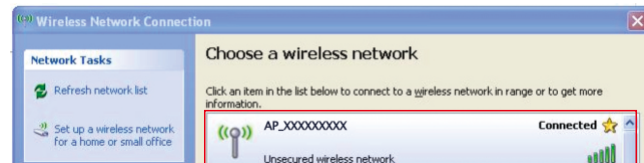
- ① Open wireless network connection and click **View Wireless Networks**.



- ② Select wireless network of the data logging module, no passwords required as default. The network name consists of **AP** and the **serial number of the product**. Then click **Connect**.



- ③ Connection successful.

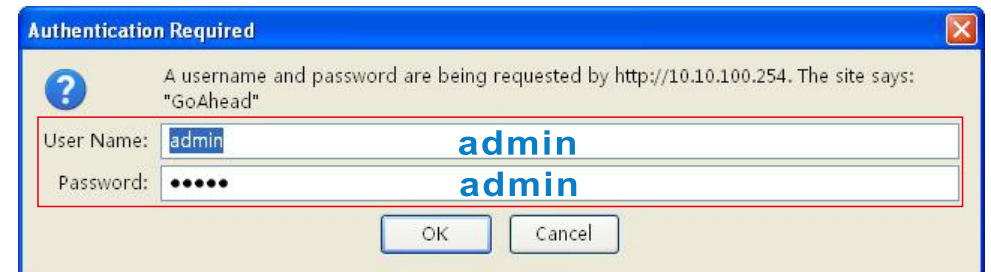
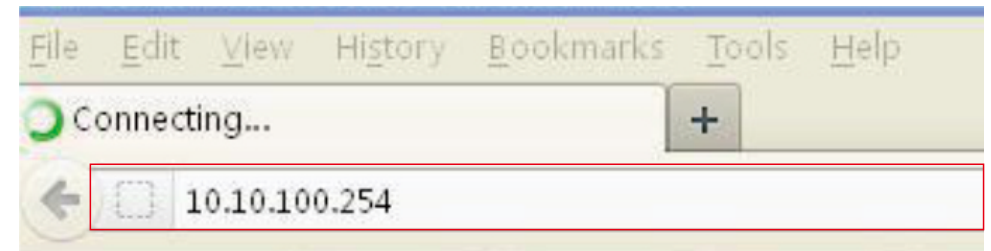


Notice: If **AP_(serial number of product)** is not available in the wireless network list, there may be problems in the connection or setting of data logging. Please refer to 5. Debug of User Manual for troubleshooting.

4. Set parameters of data logger

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

Supported browsers: Internet Explorer 8+, Google Chrome 15+, Firefox 10+



- (b) In the configuration interface of data logger, you can view general information of the data logger.

Follow the setup wizard to start quick setting.

① Click **Wizard** to start.

The screenshot shows a web interface with a sidebar menu on the left containing: Status, **Wizard**, Wireless, Cable, Advanced, Account, Update, Restart, and Reset. The main content area is titled "Device information" and displays the following details:

Device serial number	501292599
Firmware version	S-W01 V2.0.4A(ginlong)
Wireless AP mode	Enable
SSID	AP_501292599
IP address	10.10.100.254
MAC address	AC:CF:23:10:F3:58
Wireless STA mode	Disable
Router SSID	
Signal Quality	
IP address	
MAC address	
Cable mode	Enable
IP address	0.0.0.0
MAC address	AC:CF:23:10:F3:5B

Below this is a section for "Remote server information". To the right of the main content is a "Help" box with text explaining the device's capabilities as a wireless access point (AP) or a wireless information terminal (STA).

② Click **Start** to continue.

The screenshot shows a "Dear user:" screen with the following text:

Thank you for choosing our device.
Next, you can follow the setup wizard to complete the network setting step by step;
or you can select the left menu for detailed setting.

*Note: Before setting, please make sure that your wireless or cable network is working.

At the bottom right, there is a **Start** button. The sidebar menu on the left is the same as in the previous screenshot. A "Help" box on the right explains that the setup wizard will assist in completing device settings within one minute.

③ Select **Wireless connection**, and click **Next**.

The screenshot shows the "Network connection:" screen. The sidebar menu on the left includes: Status, **Wizard**, Wireless, Cable, Advanced, Account, Update, Restart, and Reset. The main content area has two radio buttons: **Wireless connection** (selected) and "Cable connection". To the right of the "Wireless connection" radio button is a dropdown menu currently set to "Wireless" with an "Enabled" status. At the bottom right, there are "Back" and **Next** buttons. A "Help" box on the right explains that the STA mode of wireless connection will be turned off by the system automatically when a cable network connection is chosen.

④ Click **Refresh** to search available wireless networks, or add it manually.

The screenshot shows the "Please select your current wireless network:" screen. The sidebar menu on the left is the same as in the previous screenshots. The main content area includes a "Site Survey" table with columns for SSID, BSSID, RSSI, and Channel. Below the table is a note: "*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." At the bottom right, there is a **Refresh** button. Below this is a section for "Add wireless network manually:" with fields for Network name (SSID) (set to "dink"), Encryption method (set to WPA2PSK), and Encryption algorithm (set to TKIP). At the bottom right of this section are "Back" and "Next" buttons. A "Help" box on the right provides instructions on how to connect the device to a desired WLAN and how to handle cases where the router does not broadcast its SSID.

- ⑤ Select the wireless network you need to connect, then click **Next**.

Notice: If the signal strength (RSSI) of the selected network is <10%, which means unstable connection, please adjust the antenna of the router, or use a repeater to enhance the signal.

Please select your current wireless network:

Site	SSID	BSSID	RSSI	Channel
○	dlink	14:d6:4d:75:71:a0	85%	6

*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)

Encryption method

Encryption algorithm

Back Next

1 2 3 4 5 6

Help
This step will help to connect the device to your desired WLAN. If you do not find your wireless router on the left list, please refresh several times or add it manually.

Please check your wireless router for the right encryption method and encryption algorithm.

If your wireless router does not broadcast SSID, please set the desired wireless network in Wireless interface.

- ⑥ Enter the password for the selected network, then click **Next**.

Please enter the wireless network password:

Password (8-64 bytes)
(Note: case sensitive)

Re-enter password

Show Password

Back Next

1 2 3 4 5 6

Help
Please make sure you have entered the correct password.

- ⑦ Select **Enable** to obtain an IP address automatically, then click **Next**.

Please fill in the following information:

Obtain an IP address automatically

IP address

Subnet mask

Gateway address

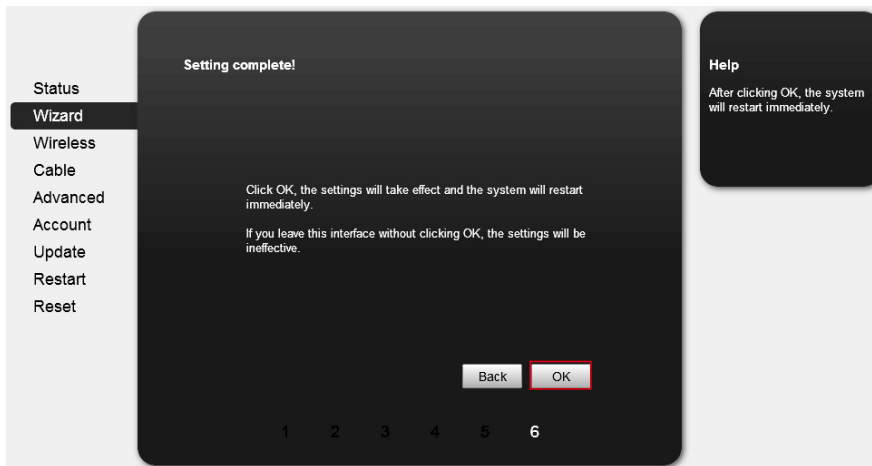
DNS server address

Back Next

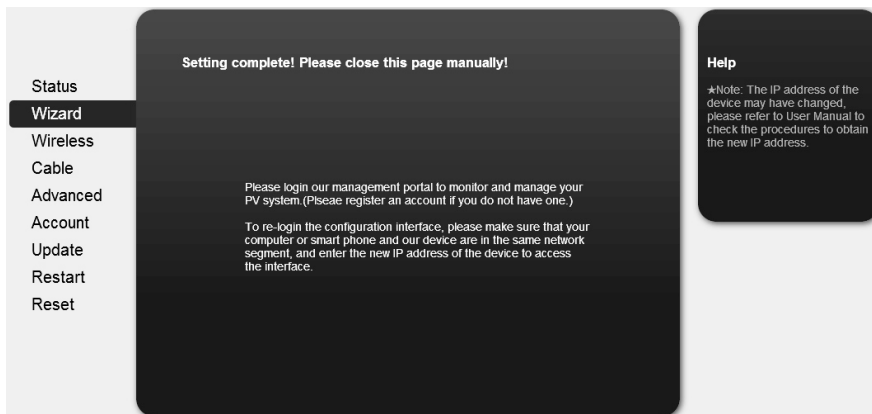
1 2 3 4 5 6

Help
Most systems support the function of DHCP to obtain IP address automatically. Please select disable and add it manually if your router does not support such function.

- ⑧ If setting is successful, the following page will display. Click **OK** to restart.



- ⑨ If restart is successful, the following page will display.



Notice: After setting is completed, if STATUS is permanently on after about 30 seconds, and the 4 LEDs are all on after 2-5 minutes, the connection is successful. If STATUS is flashing, which means unsuccessful connection, please repeat the setting from step 3.

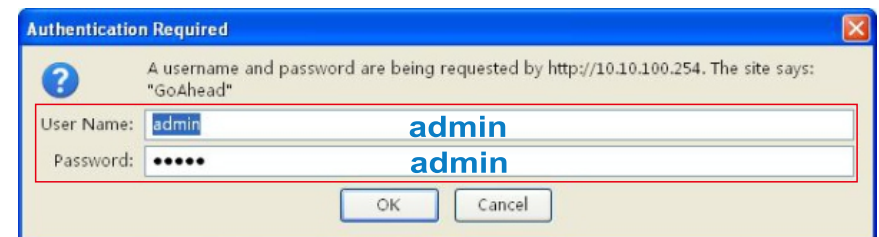
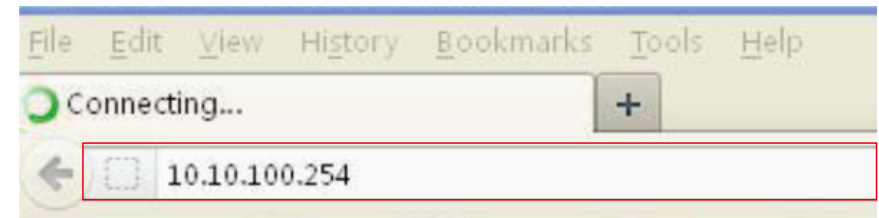
II.Connection via Ethernet

1. Connect router and data logger via Ethernet port with network cable .
2. Reset the data logger.

Reset: Press the reset button with a needle or open paper clip and hold for a while when the 4 LEDs should be on. Reset is successful when 3 LEDs, except POWER, turn off.

3. Enter the configuration interface of your router, and check the IP address of the data logger assigned by the router. Open a web browser and enter the assigned IP address to get access to the configuration interface of the data logger. Fill in username and password, both of which are **admin** as default.

Supported browsers: Internet Explorer 8+, Google Chrome 15+, Firefox 10+

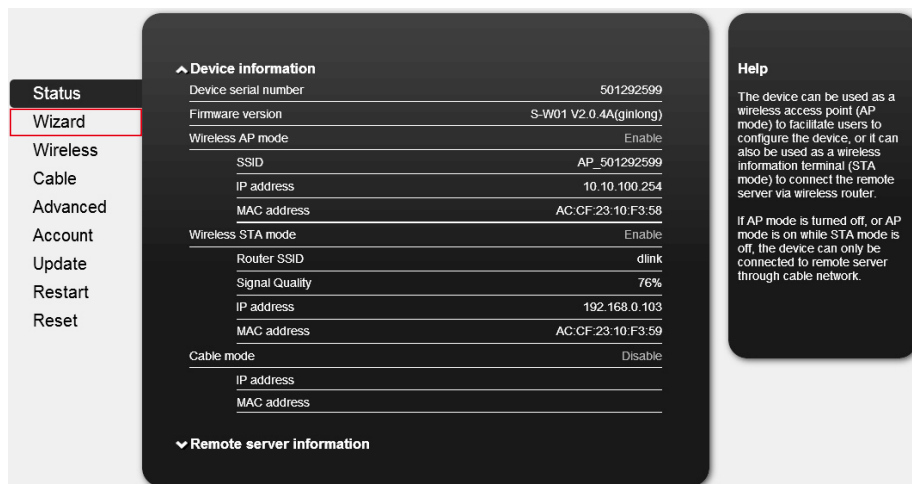


4. Set parameters of data logger

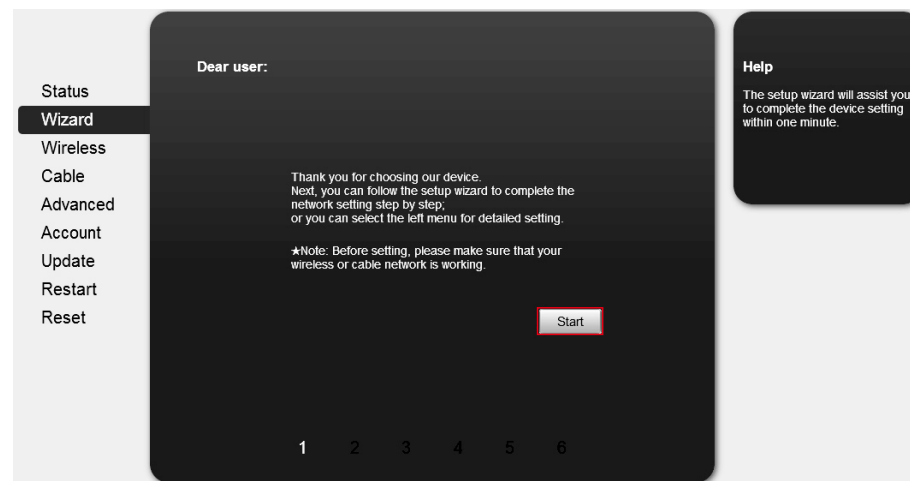
In the configuration interface of data logger, you can view general information of the device.

Follow the setup wizard to start quick setting.

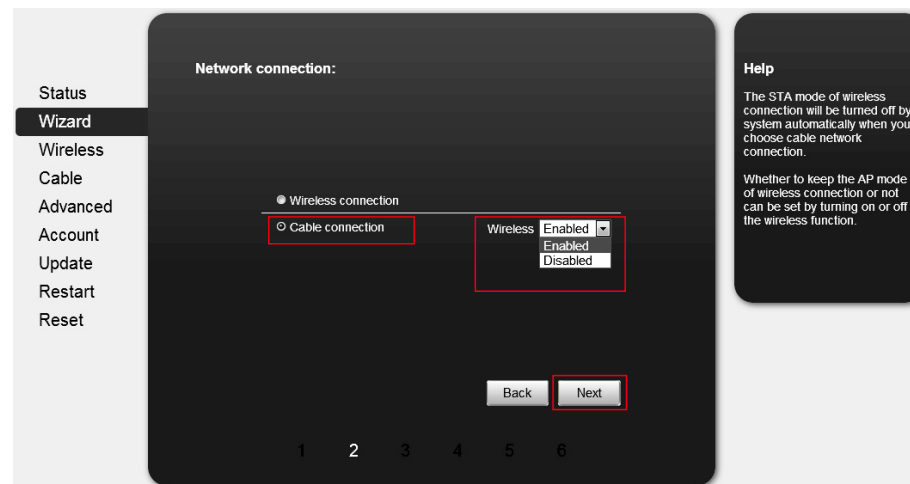
① Click **Wizard** to start .



② Click **Start** to continue.



③ Select **Cable Connection**, and you can choose to enable or disable the wireless function, then click **Next**.



- ④ Select **Enable** to obtain an IP address automatically, then click **Next**.

The screenshot shows a configuration wizard with a sidebar on the left containing 'Status', 'Wizard', 'Wireless', 'Cable', 'Advanced', 'Account', 'Update', 'Restart', and 'Reset'. The 'Wizard' section is active. The main area is titled 'Please fill in the following information:' and contains a form with the following fields: 'Obtain an IP address automatically' (a dropdown menu with 'Enable' selected), 'IP address' (text box with '0.0.0.0'), 'Subnet mask' (text box with '0.0.0.0'), 'Gateway address' (text box with '0.0.0.0'), and 'DNS server address' (empty text box). At the bottom right are 'Back' and 'Next' buttons, with 'Next' highlighted by a red box. At the bottom center are page numbers 1 through 6, with '4' highlighted. A 'Help' box on the right contains text about DHCP support.

- ⑥ If restart is successful, the following page will display.

The screenshot shows the 'Setting complete!' page. The sidebar on the left is the same as in the previous screenshot. The main area has a large dark box with the text 'Setting complete! Please close this page manually!'. Below this, there is a paragraph: 'Please login our management portal to monitor and manage your PV system. (Please register an account if you do not have one.)' and another paragraph: '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.' A 'Help' box on the right contains a note about IP address changes.

- ⑤ If setting is successful, the following page will display. Click **OK** to restart.

The screenshot shows the 'Setting complete!' page. The sidebar on the left is the same. The main area has a large dark box with the text 'Setting complete!'. Below this, there is a paragraph: 'Click OK, the settings will take effect and the system will restart immediately.' and another paragraph: 'If you leave this interface without clicking OK, the settings will be ineffective.' At the bottom right are 'Back' and 'OK' buttons, with 'OK' highlighted by a red box. At the bottom center are page numbers 1 through 6, with '5' highlighted. A 'Help' box on the right contains text about the restart process.

Notice: After setting is completed, **if STATUS is permanently on after about 30 seconds, and the 4 LEDs are all on after 2-5 minutes, the connection is successful.** If STATUS is flashing, which means unsuccessful connection, please repeat the setting from step 3.

E: Create Solis Home account

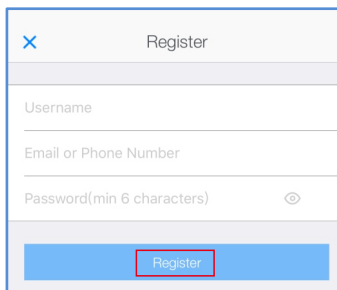
Step1: Phone scanning and sending QR code to download registration APP .
□ Or search Solis Home or Solis Pro in the App Store and Google Play Store□



Step2: Click to register.

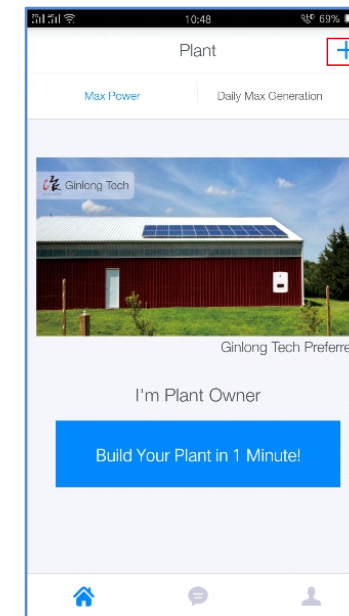


Step3: Fill in the content as required and click on the register again.



F: Create plants

1: In the absence of login, click "1 minute to create the power station" in the center of the screen. Click "+" in the upper right corner to create the power station.



2: Scan the code

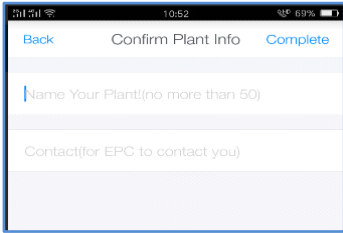
APP only supports the scanning of the bar code/QR code of dataloggers. If there is no datalogger, you can click the "no device" and jump to the next step: input plant information.

3: Input plant information

The system automatically locates the location of the station via the mobile phone GPS. If you are not in the site, you can also click "map" to select on the map.

4: Enter the name of the station and the owner's contact number

The name of the station is suggested to use your name, and the contact number is recommended to use your mobile phone number so as to have the installer operation in the later period.



G:Trouble shootings

I. LED indication



LEDs	Status	Meaning
POWER	On	Power supply is normal
	Off	Power supply is abnormal
485\422	On	Connection between data logger and inverter is normal
	Flash	Data is transmitting between data logger and inverter
	Off	Connection between data logger and inverter is abnormal
LINK	On	Connection between data logger and server is normal
	Flash	1.Data logger is under AP mode with cable connection or wireless connection 2.No network available
	Off	Connection between data logger and server is abnormal
STATUS	On	Data logger works normally
	Off	Data logger works abnormally

II. Trouble shooting

Phenomenon	Possible Reason	Solutions
Power off	No power supply	Connect power supply and ensure good contact.
RS485/422 off	Connection with inverter is abnormal	Check the wiring, and ensure that the line order comply with T568B
		Ensure the stability of RJ-45.
		Ensure normal working status of inverter
LINK flash	Wireless In STA mode	No network. Please set network first. Please configure internet connection according to Quick Guide.
LINK off	Data logger works abnormally	Check logger working mode (Wireless mode/Cable mode)
		Check if the antenna is loose or falls off. If so, please screw to tighten.
		Check if the device is covered by the range of the router.
		Please refer to User Manual for further information or have the data logger tested with our diagnosis tool.
Status off	Data logger works abnormally	Reset. If the problem still exists, please contact our customer service.
WiFi signal strength weak		Check the connection of antenna
		Add WiFi repeater
		Connect via Ethernet interface