



# Quick Guide

Solar WiFi Kit

Solar WiFi is an external data logger in the PV monitoring series.

By connecting with single or multiple inverters through RS485/422 interface, the Kit can collect information of PV 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** : Trouble shootings

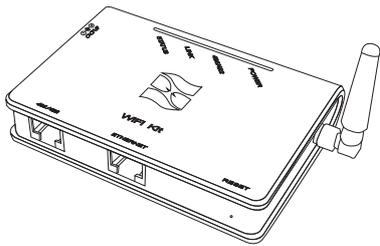
**F** : Contact

This Quick Guide is intended to assist users in quick installation and start of Solar WiFi . If any problems, please refer to corresponding chapters of Solar Wifi user manual for details.

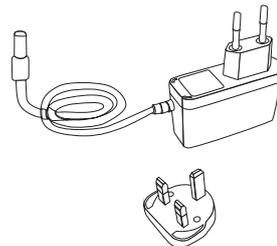
# A:Unpack

## 1. Checklist

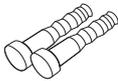
After unpacking the box, please make sure all the items are contained as follows:



① 1 PV data logger (Solar WiFi)



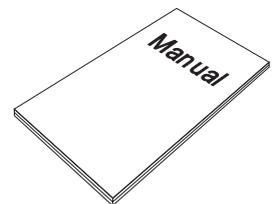
② 1 power adapter with European or British plug



③ 2 screws

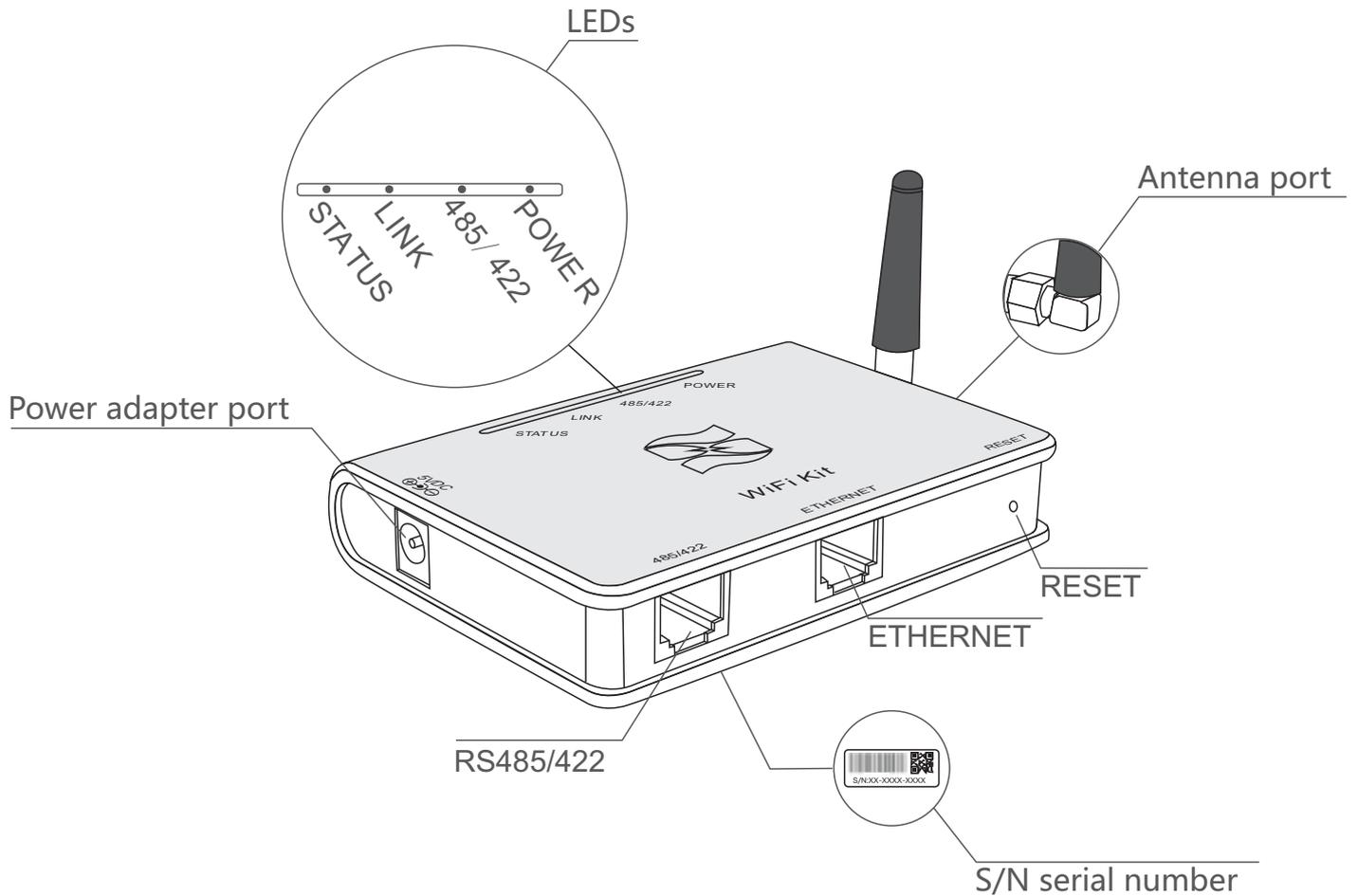


④ 2 expandable rubber hoses



⑤ 1 Quick Guide

## 2. Interface and connection



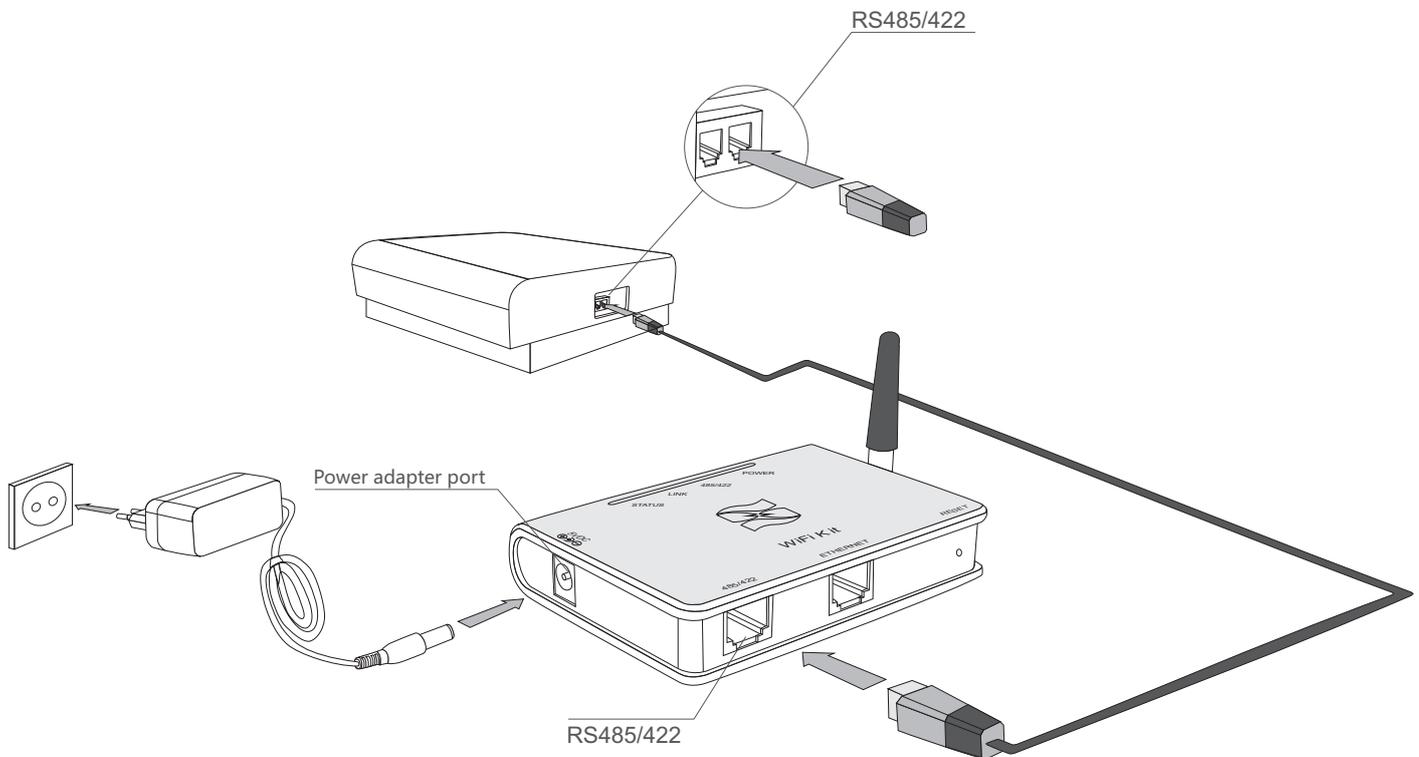
## B: Install data logger

WiFi Kit can be either wall-mounted or flatwise. Please refer to 3. Installation of User Manual for details.

# C:Connect data logger and inverters

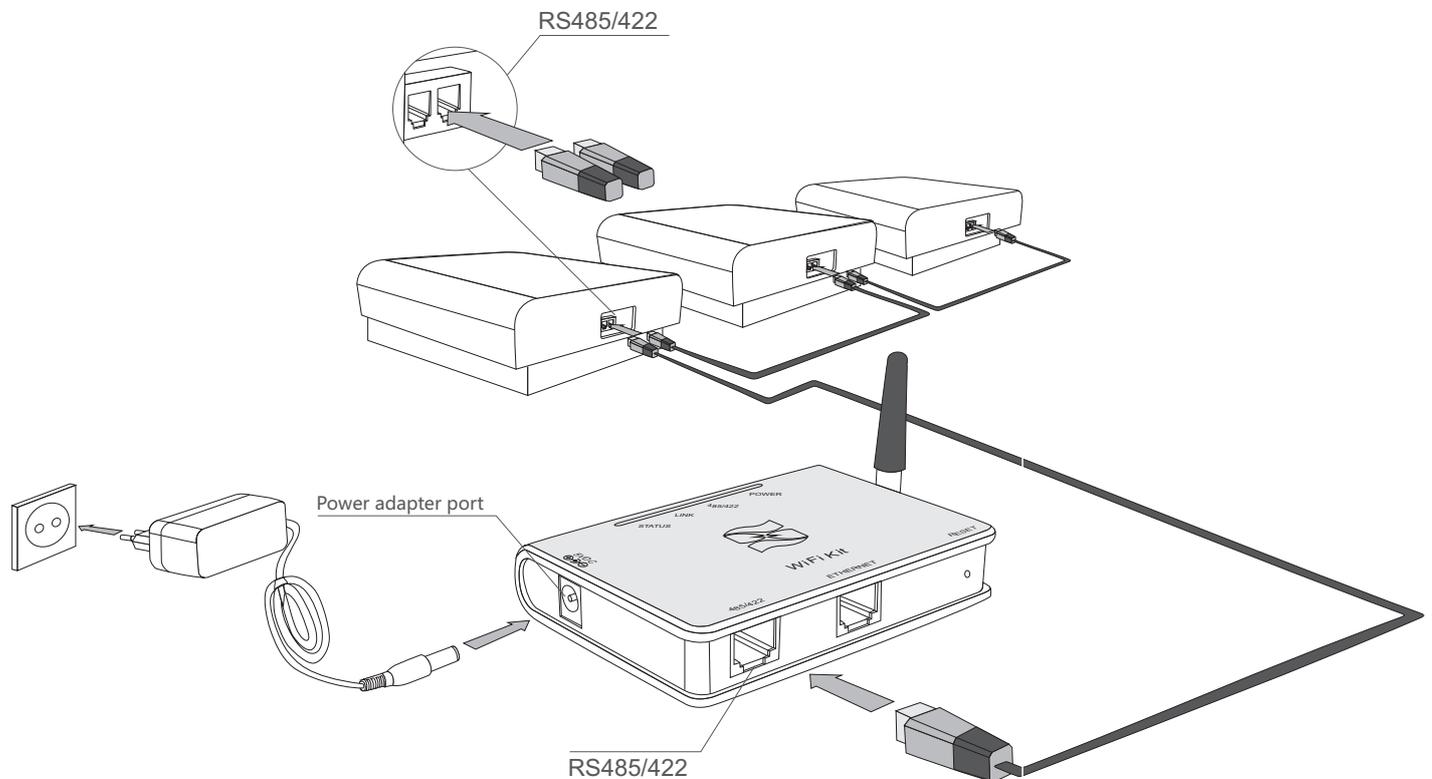
Notice: Power supply of inverters must be cut off before connection. Make sure that all connections are completed, then power the data logger and inverters, otherwise personal injury or equipment damage may be caused.

## 1. Connection with single inverter



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

# 1. Connection with multiple inverters



1. String connect multiple inverters with network cables.
2. Connect the first or last inverter in the string to data logger with network cable.
3. 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

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

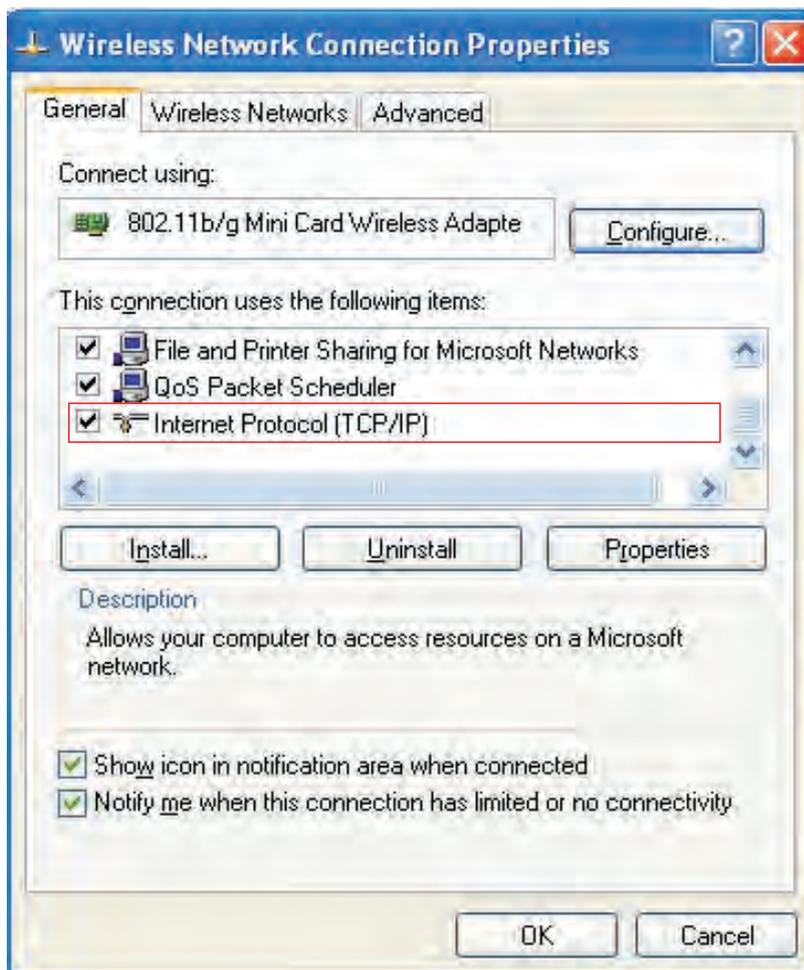
### I. Connection via WiFi

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

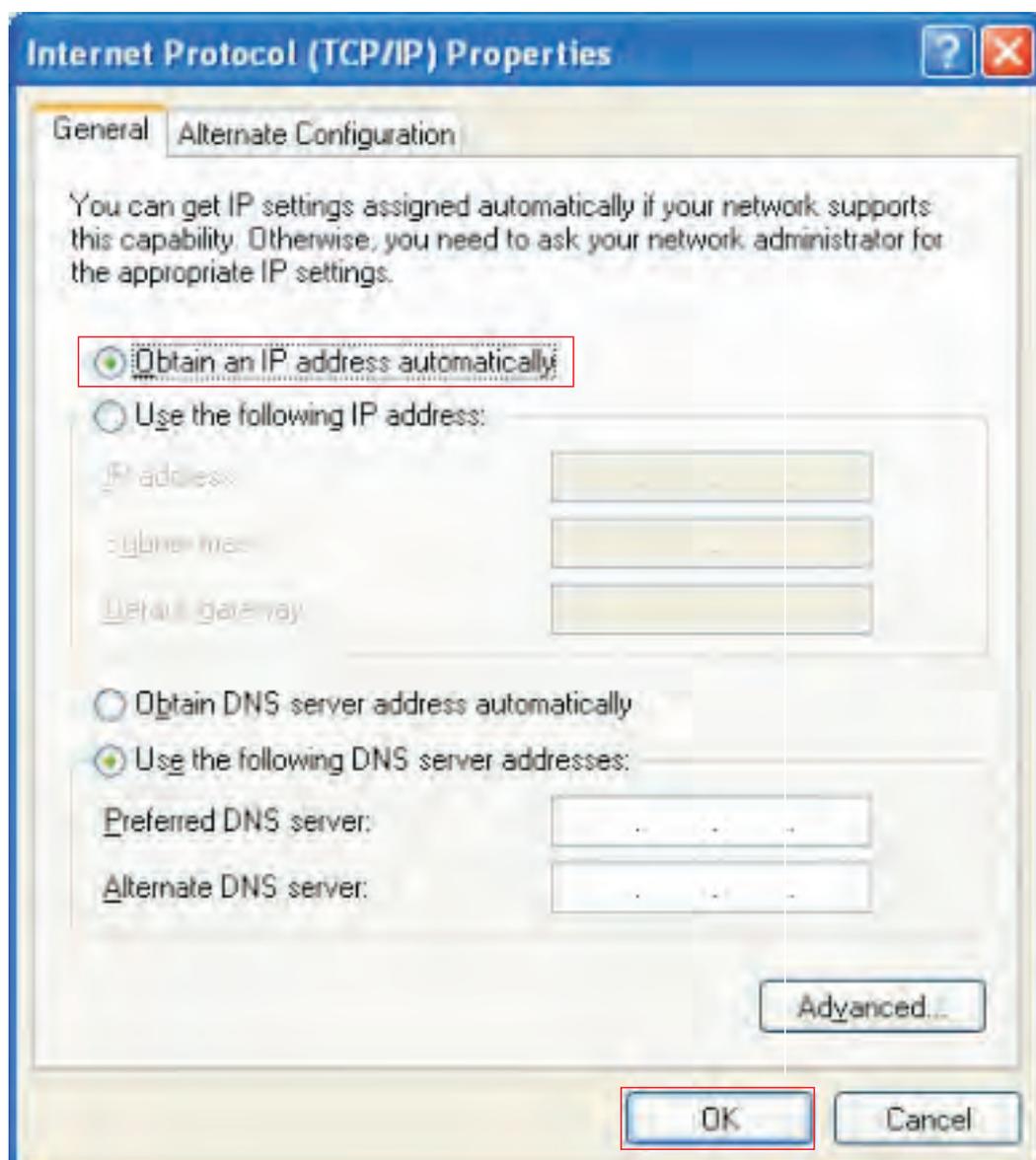
1. Prepare a computer or device, e.g. tablet PC and smartphone, that enables WiFi.

2. Obtain an IP address automatically

- ① Open [Wireless Network Connection Properties](#) , double click [Internet Protocol \(TCP/IP\)](#)

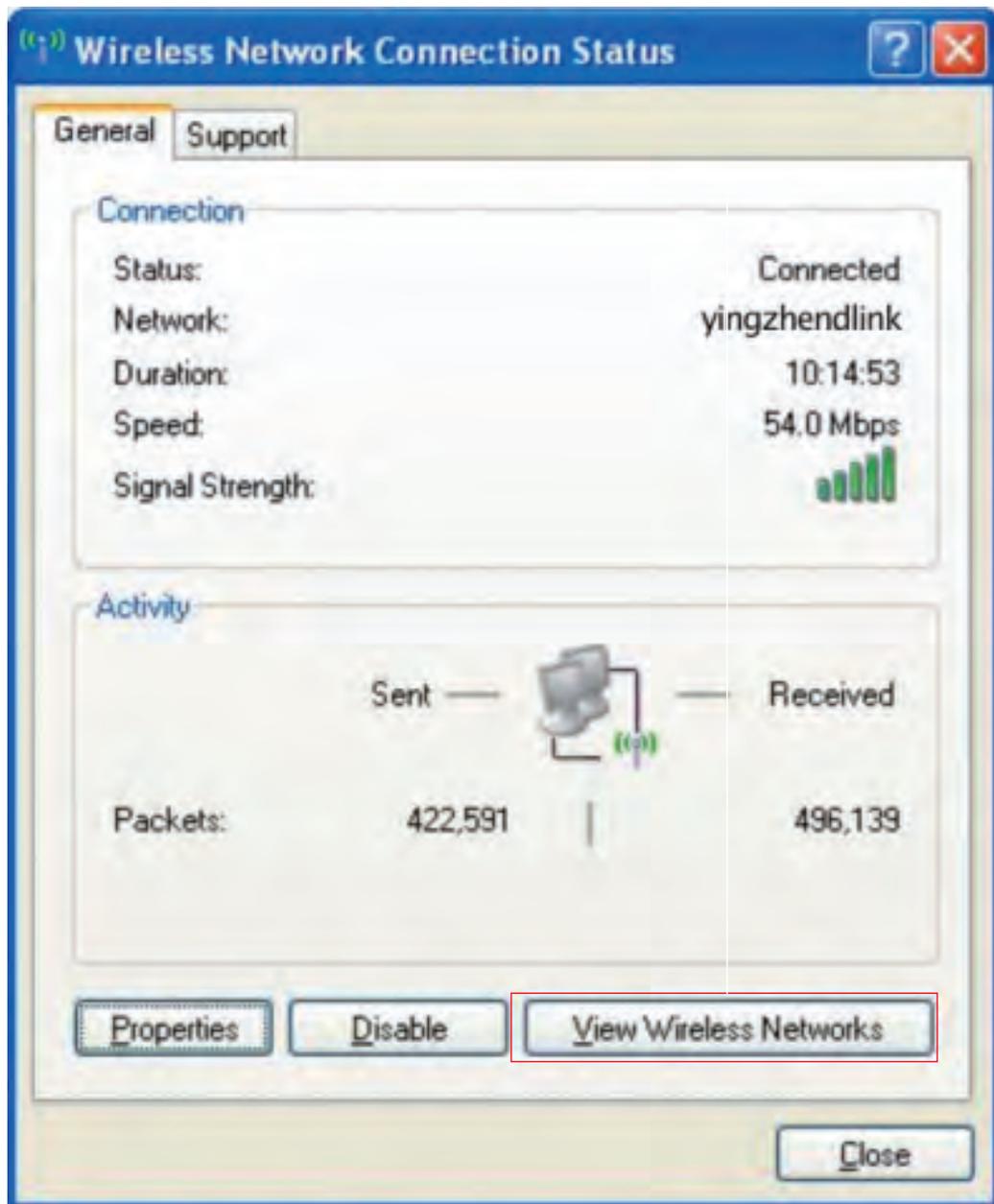


- ② Select **Obtain an IP address automatically** , and click **OK**

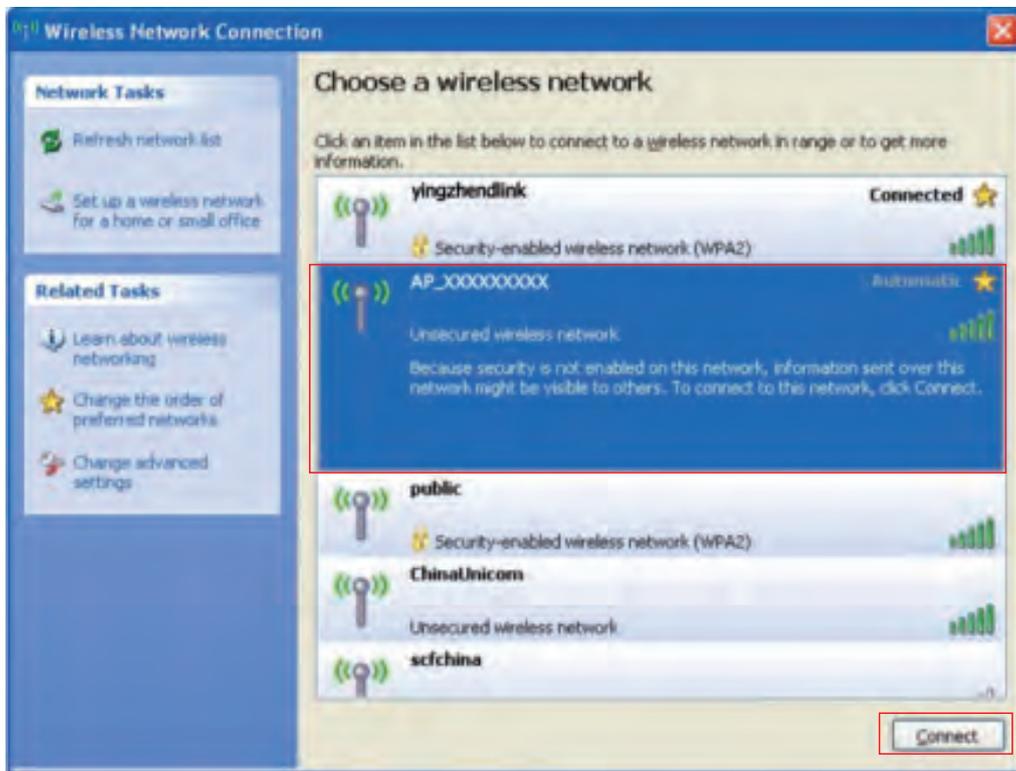


### 3. Set WiFi connection to the data logger

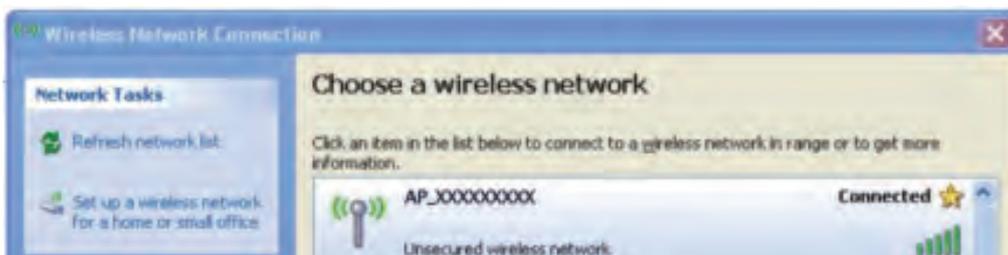
- ① Open wireless network connection and click **View Wireless Networks**



- 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

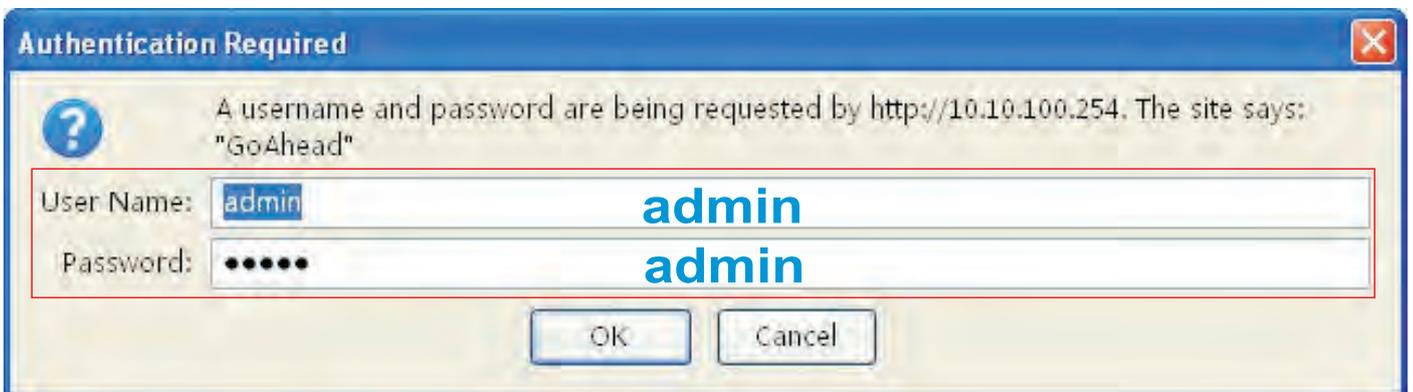
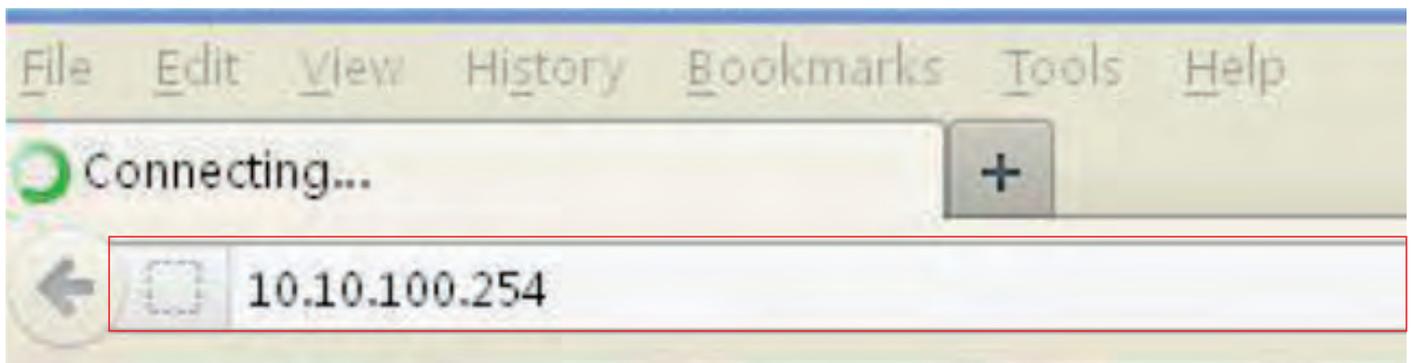


**Notice:** If **AP\_(serial number of product)** is not available in the wireless network list, there may be problems in the connection or setting of data logging . Please refer to 5. Debug of User Manual for troubleshooting.

## 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 left sidebar menu and a main content area. The sidebar menu includes: Status, Wizard (highlighted with a red box), Wireless, Cable, Advanced, Account, Update, Restart, and Reset. The main content area is titled "Device information" and contains the following data:

Device information	
Device serial number	501000000
Firmware version	
Wireless AP mode	Enable
SSID	Blue_A_AP
IP address	10.10.100.254
MAC address	AC:CF:23:10:52:20
Wireless STA mode	Enable
Router SSID	yingzhendlink
Signal Quality	0%
IP address	0.0.0.0
MAC address	AC:CF:23:10:52:21
Cable mode	Disable
IP address	
MAC address	

Below the table is a section for "Remote server information". To the right of the main content area is a "Help" box with the following text:

**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.

If AP mode is turned off, or AP mode is on while STA mode is off, the device can only be connected to remote server through cable network.

② Click **Start** to continue

The screenshot shows the same web interface as above, but the "Wizard" menu item is now selected and highlighted in blue. The main content area displays a message:

Dear user:

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 of the main content area, there is a "Start" button highlighted with a red box. Below the main content area, there are navigation arrows and a page number "1". To the right of the main content area is a "Help" box with the following text:

**Help**

The setup wizard will assist you to complete the device setting within one minute.

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



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



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:**

<input type="radio"/>	AP_50100002A	acd23:00:e7:1c	100%	1
<input type="radio"/>	AP_SOLAR_PORTAL_M2M_20120615	ec:17:2f:e3:49:ae	70%	1
<input type="radio"/>	CMCC	4c:ac:0a:2b:04:9f	50%	1
<input type="radio"/>	ankiam	90:94:e4:3c:61:1c	70%	1
<input type="radio"/>	CMCC-ALITO	5e:ac:0a:2b:04:9f	55%	1
<input type="radio"/>	AP_501000000	acd23:10:7c:bc	86%	6
<input checked="" type="radio"/>	yingzhendlink	ec:6c:9f:04:b3:2d	100%	0
<input type="radio"/>	GUEST	ec:6c:9f:04:b3:2d	100%	0
<input type="radio"/>	CMCC	4c:ac:0a:2c:bc:3c	24%	8
<input type="radio"/>	HappySys	4:ec:38:72:22:a8	34%	9
<input type="radio"/>	IIDM	94:0c:8d:2a:bf:d6	5%	9
<input type="radio"/>	CMCC	4c:ac:0a:45:42:3e	0%	11
<input type="radio"/>	wedgenetworks	00:24:b2:16:76:d8	20%	11

**Add wireless network manually:**

Network name (SSID) (Note: case sensitive):

Encryption method:

Encryption algorithm:

3

**Help**

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

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

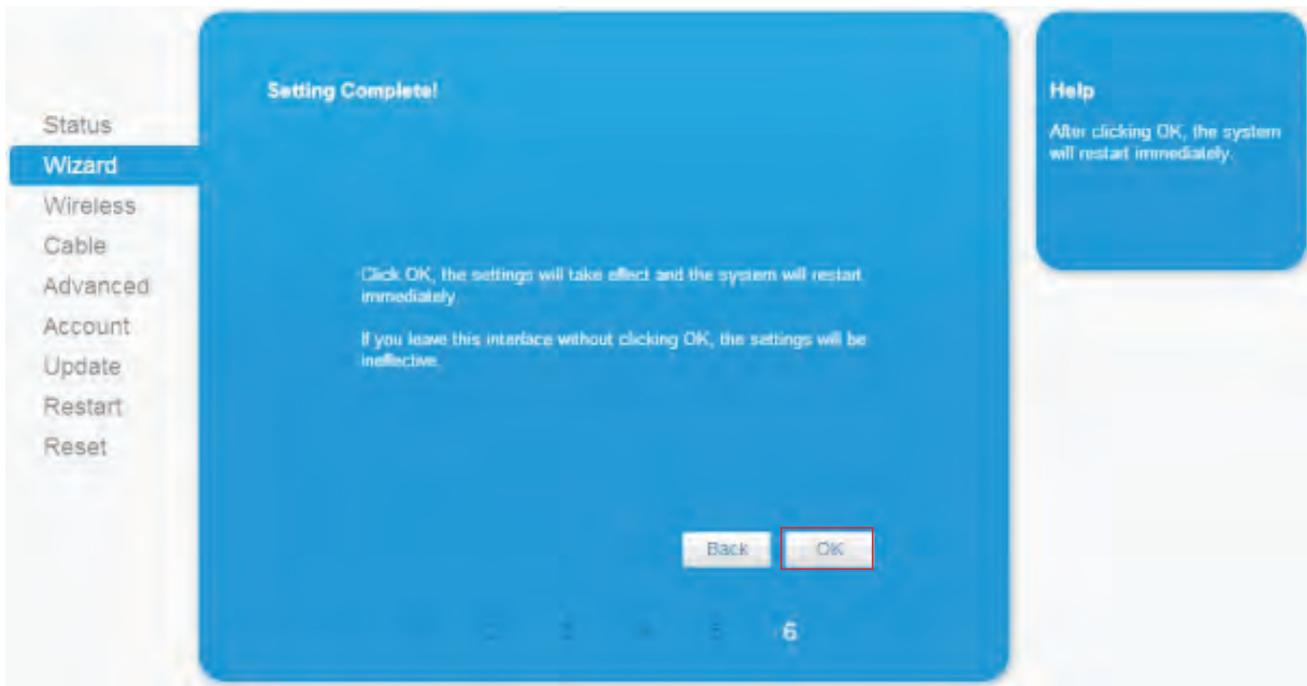
⑥ Enter the password for the selected network, then click **Next**

The screenshot shows a web interface for configuring a wireless network. On the left is a navigation menu with options: Status, Wizard (highlighted), Wireless, Cable, Advanced, Account, Update, Restart, and Reset. The main content area is titled "Please enter the wireless network password:". It contains two text input fields for "Password (1-32 bytes) (Note: case sensitive)" and "Re-enter password", both filled with asterisks. A checkbox labeled "Show Password" is located below the second field. At the bottom are "Back" and "Next" buttons. A "Help" box on the right contains the text: "Please make sure you have entered the correct password." The page number "4" is visible at the bottom center.

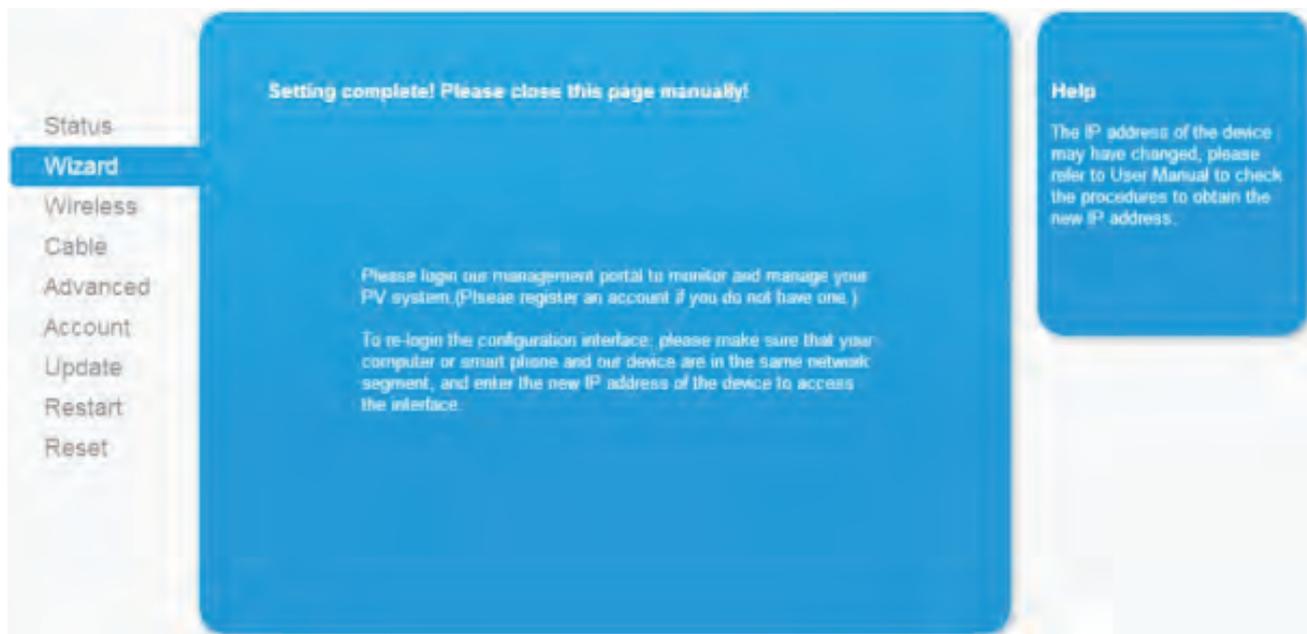
⑦ Select **Enable** to obtain an IP address automatically, then click **Next**

The screenshot shows the same web interface as above, but the main content area is titled "Please fill in the following information:". The "Obtain an IP address automatically" dropdown menu is set to "Enable". Below it are four text input fields for "IP address", "Subnet mask", "Gateway address", and "DNS server address", each containing "0.0.0.0". The "Next" button is highlighted with a red box. The "Help" box on the right contains the text: "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." The page number "5" is visible at the bottom center.

- 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.

## 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



The screenshot displays the configuration interface of a data logger. On the left, a vertical menu contains several options: Status, Wizard, Wireless, Cable, Advanced, Account, Update, Restart, and Reset. The 'Wizard' option is highlighted with a red rectangular border. The main content area is a blue panel titled 'Device Information' with a dropdown arrow. It lists various device parameters and their current settings:

Device Information	
Device serial number	501000000
Firmware version	
Wireless AP mode	Enable
SSID	Blue_A_AP
IP address	10.10.100.254
MAC address	AC-DF-23-10-52-20
Wireless STA mode	Enable
Router SSID	yingzhendlink
Signal Quality	0%
IP address	0.0.0.0
MAC address	AC-DF-23-10-52-21
Cable mode	Disable
IP address	
MAC address	

At the bottom of the blue panel, there is a section for 'Remote server information' with a dropdown arrow. To the right of the main panel is a 'Help' section with the following text:

**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.  
If AP mode is turned off, or AP mode is on while STA mode is off, the device can only be connected to remote server through cable network.

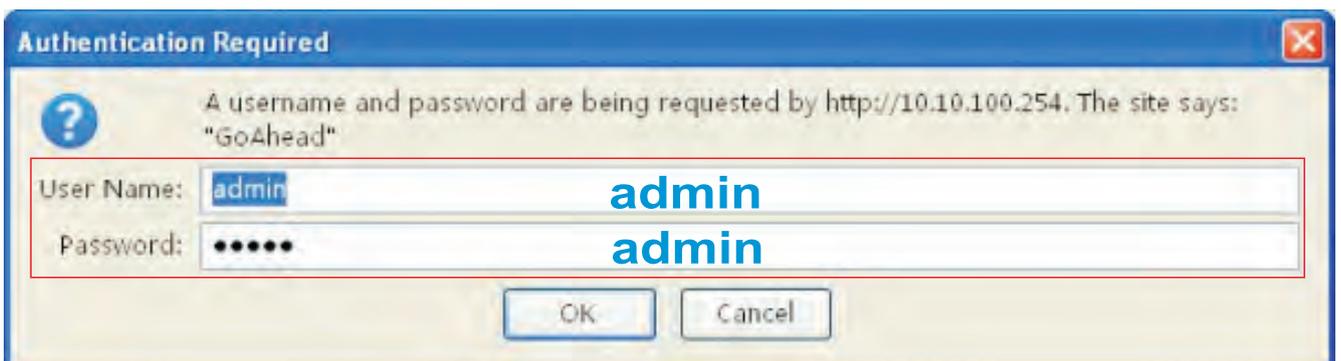
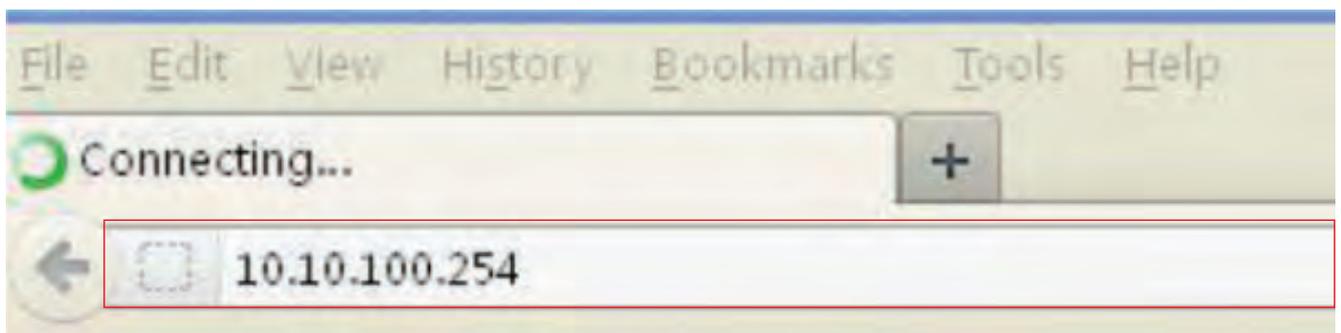
## II. Connection via Ethernet

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.

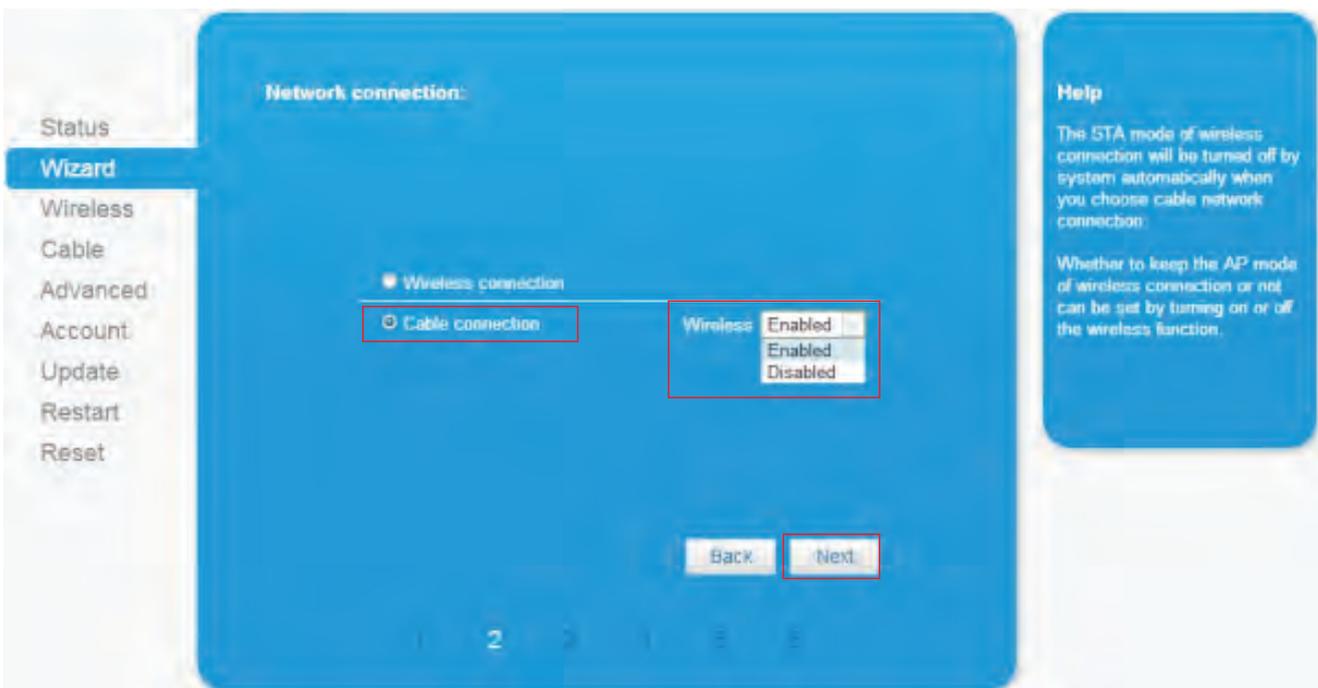
*Supported browsers: Internet Explorer 8+, Google Chrome 15+, Firefox 10+*



② Click **Start** to continue



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



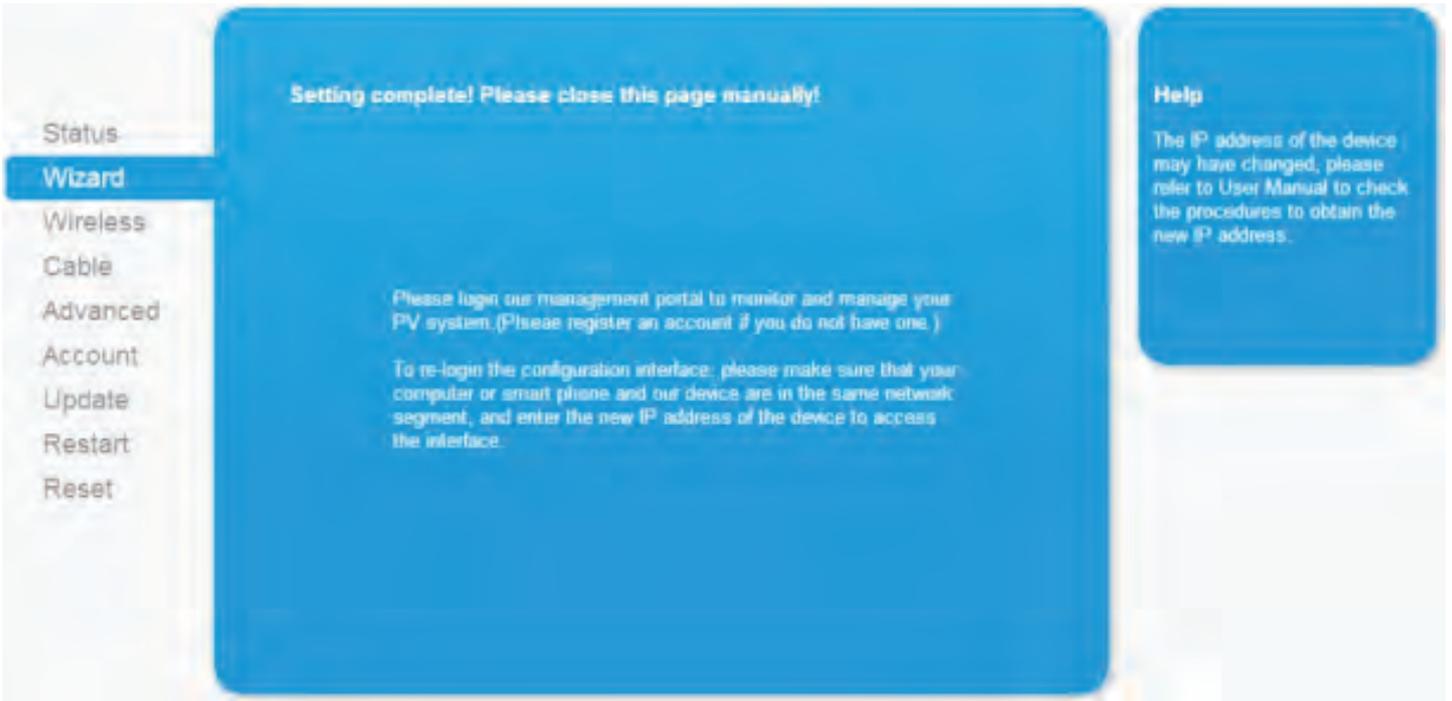
- ④ Select **Enable** to obtain an IP address automatically, then click **Next**

The screenshot shows a network configuration wizard interface. On the left is a sidebar with menu items: Status, Wizard (highlighted), Wireless, Cable, Advanced, Account, Update, Restart, and Reset. The main content area has a blue header that says "Please fill in the following information:". Below this are several input fields: "Obtain an IP address automatically" (a dropdown menu with "Enable" selected), "IP address" (text field with "0.0.0.0"), "Subnet mask" (text field with "0.0.0.0"), "Gateway address" (text field with "0.0.0.0"), and "DNS server address" (empty text field). At the bottom of the form are "Back" and "Next" buttons, with "Next" highlighted by a red box. A "Help" box on the right contains the text: "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." At the bottom center, there are navigation arrows and the number "5".

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

The screenshot shows the "Setting Complete!" screen of the network configuration wizard. The sidebar on the left is the same as in the previous screenshot. The main content area has a blue header that says "Setting Complete!". Below this is the text: "Click OK, the settings will take effect and the system will restart immediately." and "If you leave this interface without clicking OK, the settings will be ineffective." At the bottom of the form are "Back" and "OK" buttons, with "OK" highlighted by a red box. A "Help" box on the right contains the text: "After clicking OK, the system will restart immediately." At the bottom center, there are navigation arrows and the number "6".

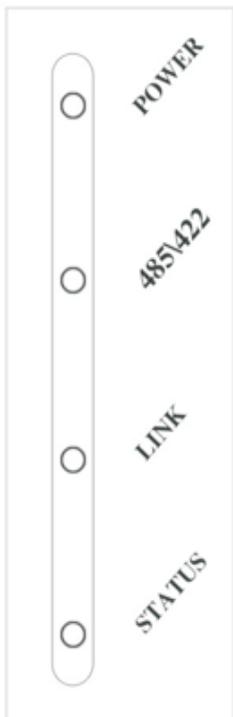
⑥ If restart is successful, the following page will display.



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.

# E: Trouble shootings

## I. LED indication



LEDs	Status	Meaning
POWER	On	Power is normal
	Off	Power is abnormal
485\422	On	Connection between data logger and inverter is normal
	Flashing	Data is transmitting between data logger and inverter
	Off	Connection between data logger and inverter is abnormal
STATUS Off	LINK Flashing	Connecting WiFi
STATUS On	LINK Flashing	Data is transmitting via WiFi
	LINK On	Connection of data logger is normal
	LINK Off	Connection of data logger is abnormal
STATUS Flashing	LINK Flashing	Data is transmitting via port
	LINK On	WiFi in AP mode, a terminal connected
	LINK Off	WiFi in AP mode, no terminal connected

## II. Trouble shooting

Phenomenon				Meaning	Solutions
POWER	485/422	LINK	STATUS		
Off	Off	Off	Off	No power supply	Connect power supply and ensure good contacts.
On	Off	X	X	Connection with inverter is abnormal	Check the connection cable, and ensure that the cable order comply with T568B.
					Ensure the stability of RJ-45.
					Ensure that inverter is working under normal condition.
On	X	X	Flashing	In AP mode	Set network.
On	X	Flashing	Off	No WiFi connected to data logger	Check if the antenna is loose or falls off. If so, please screw to tighten.
					Check if the required WiFi is covered.
					Reset data logger and set network again.
On	On	Off	On	Connection to remote server failed	Check if WiFi can connect to Internet
On	Off	Off	Off	System under initialization	Wait for 2 minutes, if no changes occur, reset data logger.
Weak WiFi					Check the connection of antenna
					Add WiFi repeater
					Connect via Ethernet

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.

## F:Contact

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

- ◆ Device model
- ◆ Serial number of product

Shenzhen JingFuYuan Tech.Co.,Ltd.

Tel: +86-755-8179 5460/8528 6302 Fax: +86-755-2650 5986

Email: [support@jfy-tech.com](mailto:support@jfy-tech.com)

12th Block, Nangang Second Industrial Park, SongBai Road, Xili Town,  
Nanshan District, Shenzhen, P.R.China

[www.jfy-tech.com](http://www.jfy-tech.com)