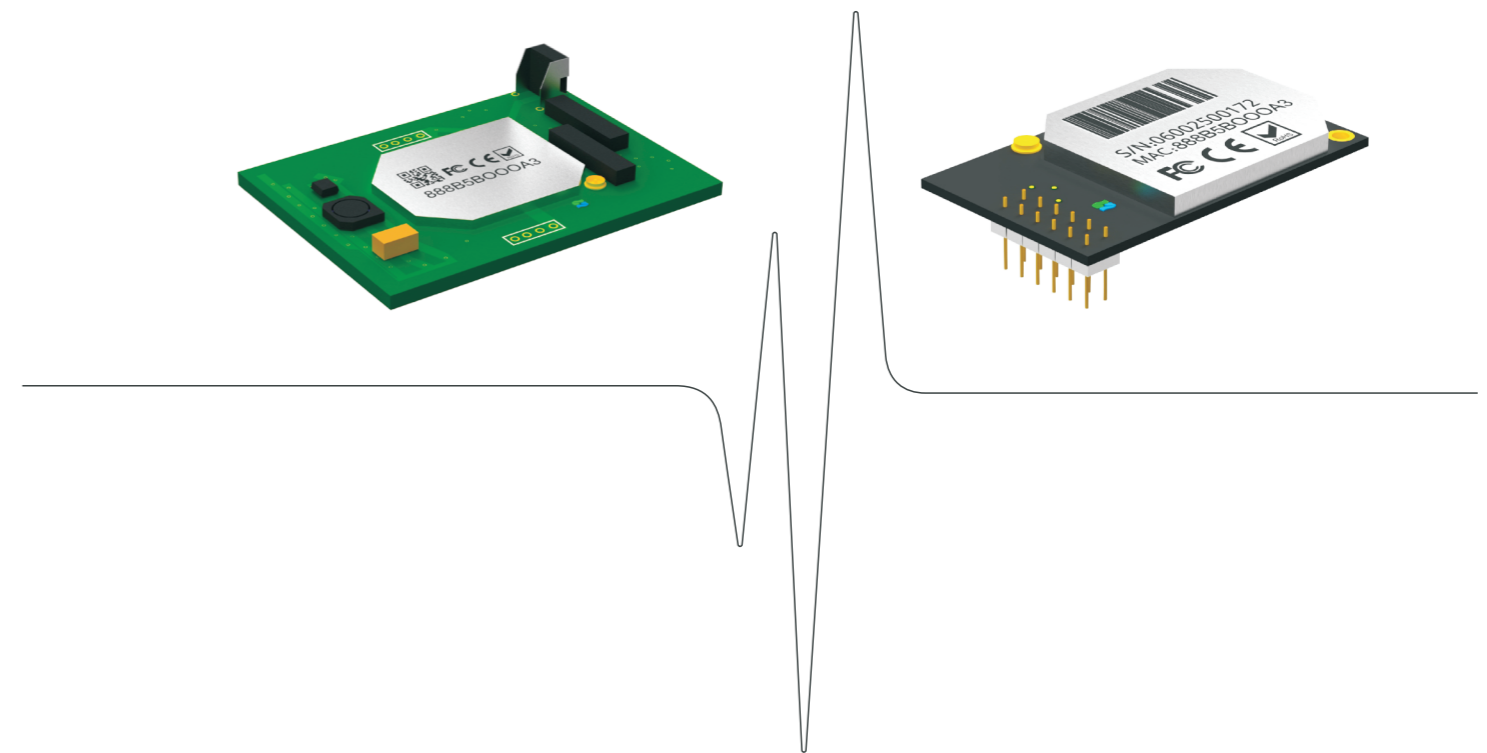


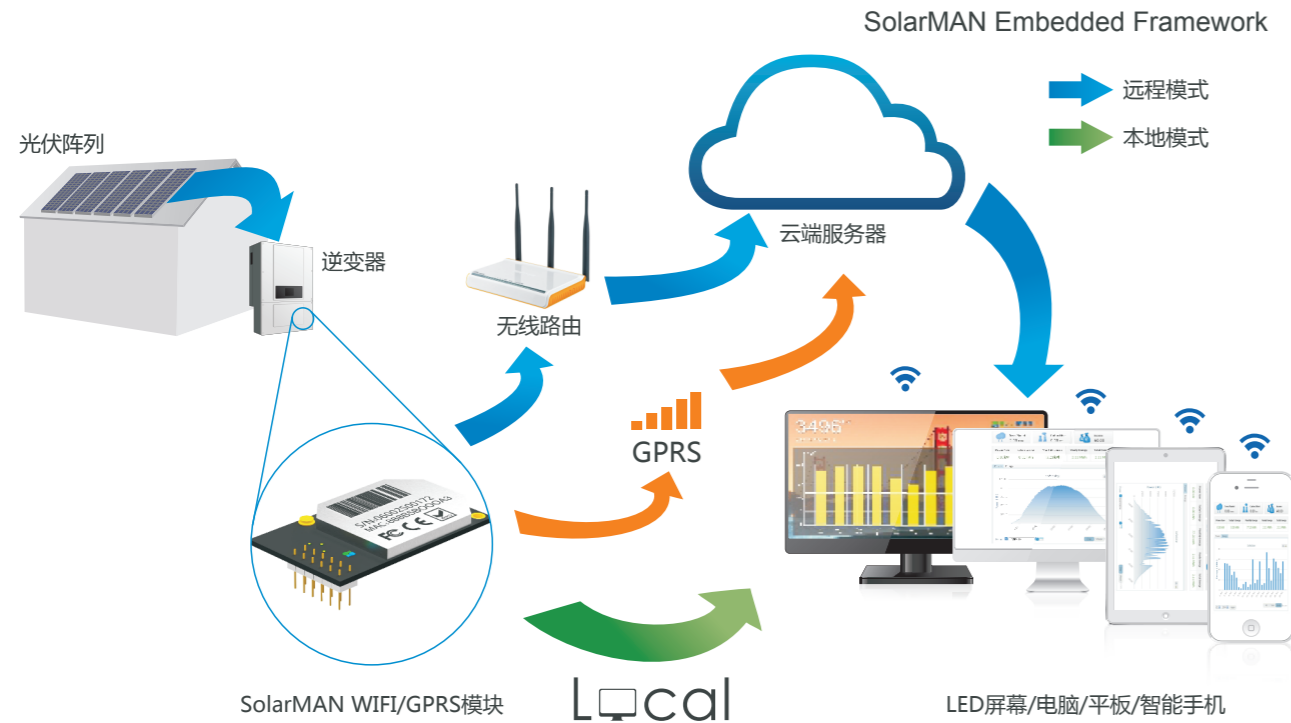
Embedded WiFi Kit Quick Guide



From this page

SolarMAN Embedded WiFi Kit S-W02E/S-W02ES is an embedded data logging module. With its "plug & play" function, the module is embedded in an inverter and can collect information of PV systems from the inverter.

With the integrated WiFi function, the module can connect to router and transmit data to the web server, enabling users to view collected data by logging in the online monitoring portal (www.solarmanpv.com/portal). In addition, users can also get access to the internal web server of the module via WiFi and directly obtain data from the module.




This Quick Guide is intended to assist users in quick configuration and start of Embedded WiFi Kit S-W02E and S-W02ES. If any problems, please refer to corresponding chapters of **User Manual** for details. Configuration interfaces may differ according to different product models.

Sofar SolarMAN Quick_Setup Manual (Wi-Fi Optional)

Outlines of this chapter

This quick guide is intended to assist users in quick configuration and start of Embedded Wi-Fi module.

1. Network setting


Note

The setting hereinafter is operated with Windows7 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 smart phone that enables Wi-Fi.
2. Obtain an IP address automatically.

Procedure:

Setp1: Click on ;

Setp2: Connect with your personal internet access point (AP) or WLAN.

Example: "sofarpv" in this case. See Figure 1

Setp3: Right click on your connected AP, click on Status > Properties to open the wireless network property setup window. See Figure 2

Figure 1

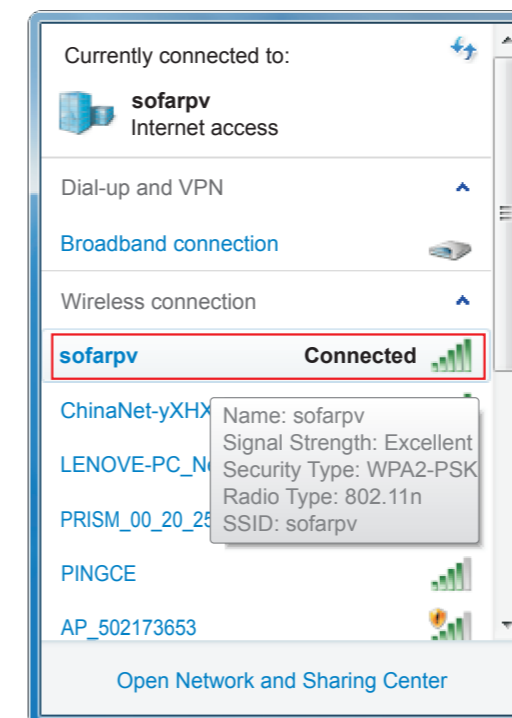
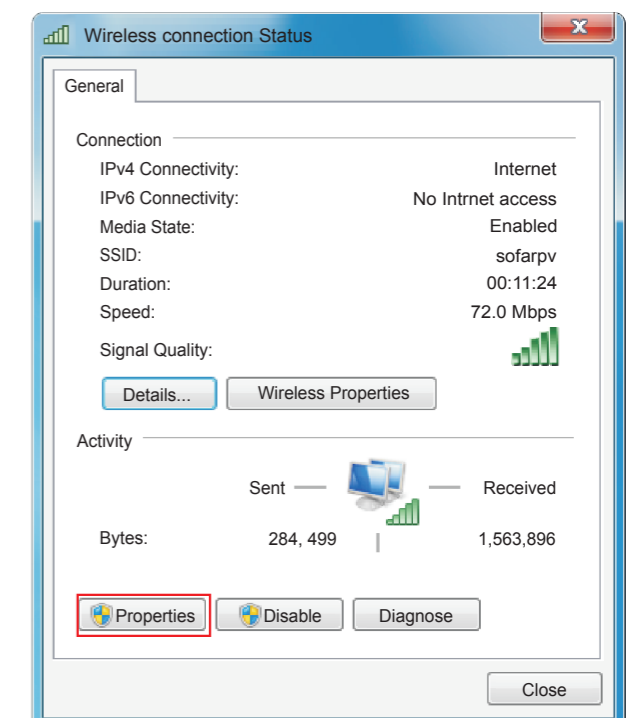


Figure 2



Setp4: Double click on internet Protocol Version 4 (TCP/IPv4). Click on General > Obtain an IP address automatically > OK to finish the setup. See Figure 3, 4:

Figure 3

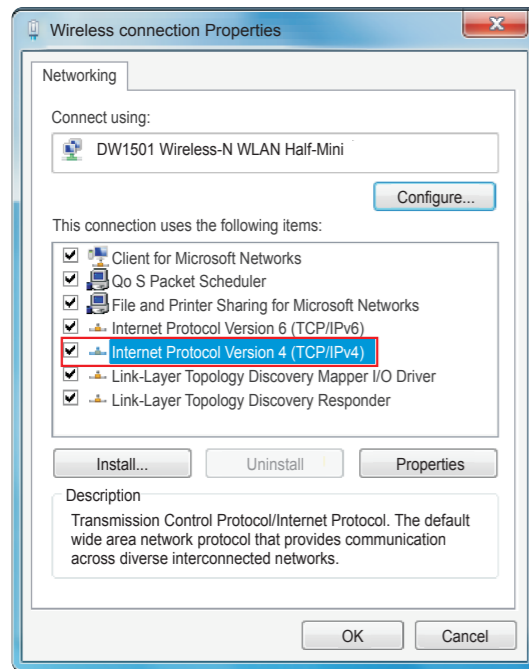
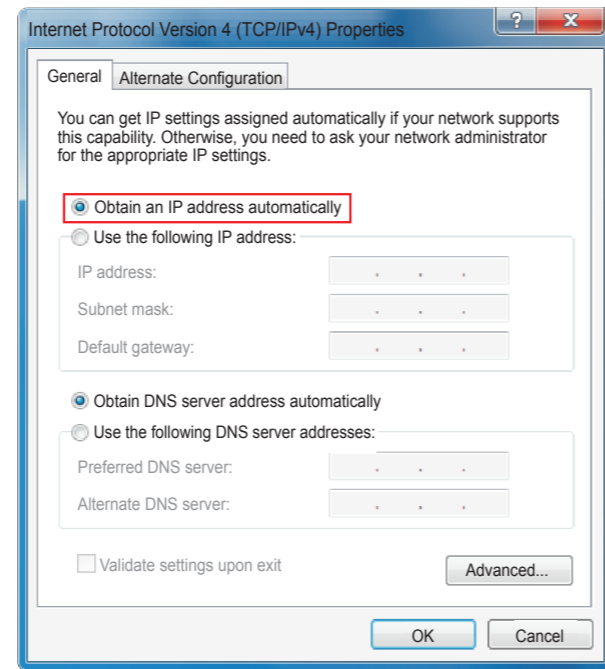


Figure 4



3. SOFAR inverter Wi-Fi module setup

Procedure:

Setp1: Click on ;

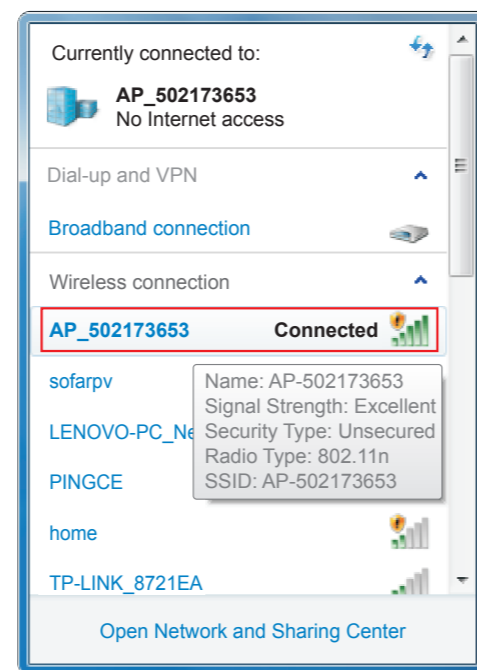
Setp2: Connect with SOFAR inverter Wi-Fi module, defaulted with no password and its name started as AP_ and a following 9-digit Wi-Fi serial number. See Figure 5, 6.

Example: AP_50217365

Figure 5

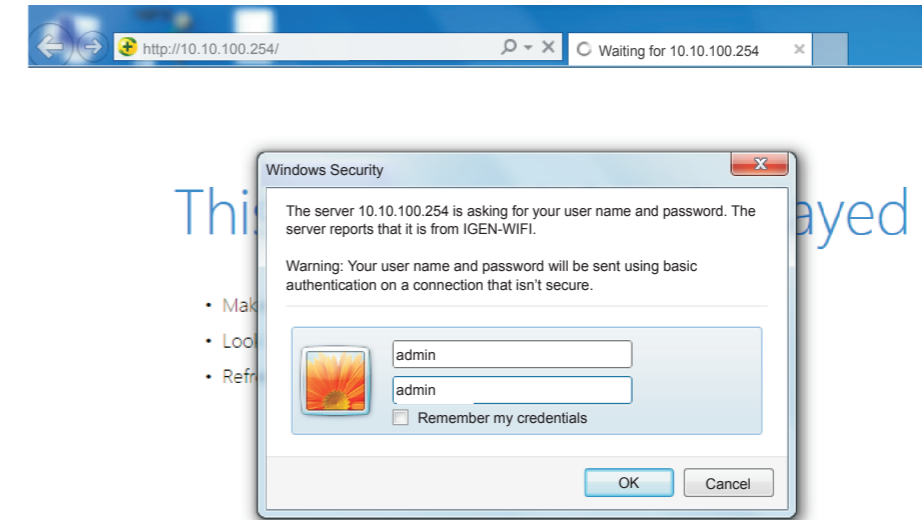


Figure 6



Setp3: When connected, open browser, head to <http://10.10.100.254/>, and fill in user name and password which all defaulted as admin for the first time. See Figure 7

Figure 7



Note

Browsers like internet Explorer 8+, chrome 15+ and Firefox 10+ are recommended.

Setp4: When successfully logged in, users can find basic information on their inverter Wi-Fi module.

Figure 8

| Status | Device information | |
|----------|----------------------|---------------------------------------|
| Wizard | Device serial number | 502173653 |
| Wireless | Firmware version | H4.01.43Y4.0.01W1.0.13(2014-07-161-S) |
| Cable | Wireless SP mode | Enable |
| Advanced | SSID | AP_502173653 |
| Account | IP address | 10.10.100.254 |
| Update | MAC address | 00:95:69:1A:33:30 |
| Restart | Wireless STA mode | Enable |
| Reset | Router SSID | sofarsolar |
| | Signal Quality | 0% |
| | IP address | 0.0.0.0 |
| | MAC address | 00:95:69:1A:33:31 |
| | Cable mode | Enable |
| | IP address | 0.0.0.0 |
| | MAC address | 00:95:69:1A:33:31 |
| | Connected Inverter | |

Setp5: Please click on Wizard > Start to start the detailed setup on your inverter Wi-Fi module.

Figure 9

Dear users:

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

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

Start

1 2 3 4 5 6 7

Setp6: Select Wireless connection, and click Next.

Figure 10

Connection Settings:

Wireless connection
 Cable connection Wireless **Enabled** ▾

Back **Next**

1 2 3 4 5 6 7

Note If the signal strength (RSSI) of your selected internet access point (AP) is lower than 15%, the connection may be unstable, please select other available network or shorten the distance between the device and the router.

Setp7: Select your personal wireless network. This can be done by refreshing your wireless network or add it manually. See Figure 11

Figure 11

Please select your current wireless network:

| | | | | |
|----------------------------------|-----------------------|-------------------|------|---|
| <input type="radio"/> | SZKTZ | 5e:ac:0a:2c:bc:3f | 10% | 1 |
| <input type="radio"/> | TP-LINK_3B | 4e:ac:0a:2c:bc:3b | 10% | 1 |
| <input type="radio"/> | YDS-WIFI | 4c:ac:0a:2b:04:9f | 76% | 1 |
| <input type="radio"/> | PRISM_00_20_25 | 5e:ac:0a:26:8b:fe | 10% | 1 |
| <input type="radio"/> | ChinaNet-EWtw | 5e:ac:0a:2b:04:9f | 70% | 1 |
| <input type="radio"/> | ChinaNet-kwza | 4c:ac:0a:26:8b:fe | 10% | 1 |
| <input checked="" type="radio"/> | sofarpv | e0:05:c5:b2:7b:5a | 81% | 2 |
| <input type="radio"/> | 360WIFI-99FA | 90:94:e4:3c:61:1c | 10% | 2 |
| <input type="radio"/> | SCJ | 00:21:27:46:c5:98 | 29% | 3 |
| <input type="radio"/> | TP-LINK_2.4GHz_F2BC95 | ac:f2:3f:02:9c | 100% | 3 |
| <input type="radio"/> | PINGCE | ec:6c:9f:04:b3:2c | 96% | 6 |
| <input type="radio"/> | yba | 00:21:27:5c:06:98 | 5% | 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 7

Note If you choose to add your wireless network manually, please keep encryption method and encryption algorithm the same as your home router's setup.

Setp8: Please enter your personal wireless network password. Then click Next.

Figure 12

Please enter the wireless network password:

Password(1-32 bytes) (Note: case sensitive)

Re-enter password

Show Password

Back **Next**

1 2 3 4 5 6 7

Setp9: Select Enable > Next to obtain IP address automatically.

Figure 13

The screenshot shows a configuration wizard with a sidebar on the left containing menu items: Staus, Wizard (highlighted), Wireless, Cable, Advanced, Account, Update, Restart, and Reset. The main content area is titled "Please fill in the following information:". It contains a form with the following fields: "Obtain an IP address automatically" with a dropdown menu set to "Enable"; "IP address" with a text input field containing "0.0.0.0"; "Subnet mask" with a text input field containing "0.0.0.0"; "Gateway address" with a text input field containing "0.0.0.0"; and "DNS server address" with an empty text input field. At the bottom of the form are "Back" and "Next" buttons. A progress bar at the very bottom shows seven steps, with step 5 highlighted.

Setp10: Click Next.

Figure 14

The screenshot shows a configuration wizard with a sidebar on the left containing menu items: Staus, Wizard (highlighted), Wireless, Cable, Advanced, Account, Update, Restart, and Reset. The main content area is titled "Enhance Security". Below the title is the text: "You can enhance your system security by choosing the following methods". There are three options, each with a checkbox: "Hide AP", "Change the encryption mode for AP", and "Change the user name and password for Web server". All checkboxes are currently unchecked. At the bottom of the form are "Back" and "Next" buttons. A progress bar at the very bottom shows seven steps, with step 6 highlighted.

Setp11: Click OK to wait for setting complete.

Figure 15

The screenshot shows a confirmation screen with a sidebar on the left containing menu items: Staus, Wizard (highlighted), Wireless, Cable, Advanced, Account, Update, Restart, and Reset. The main content area is titled "Setting complete!". It contains the following 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 screen are "Back" and "OK" buttons. A progress bar at the very bottom shows seven steps, with step 7 highlighted.

Figure 16

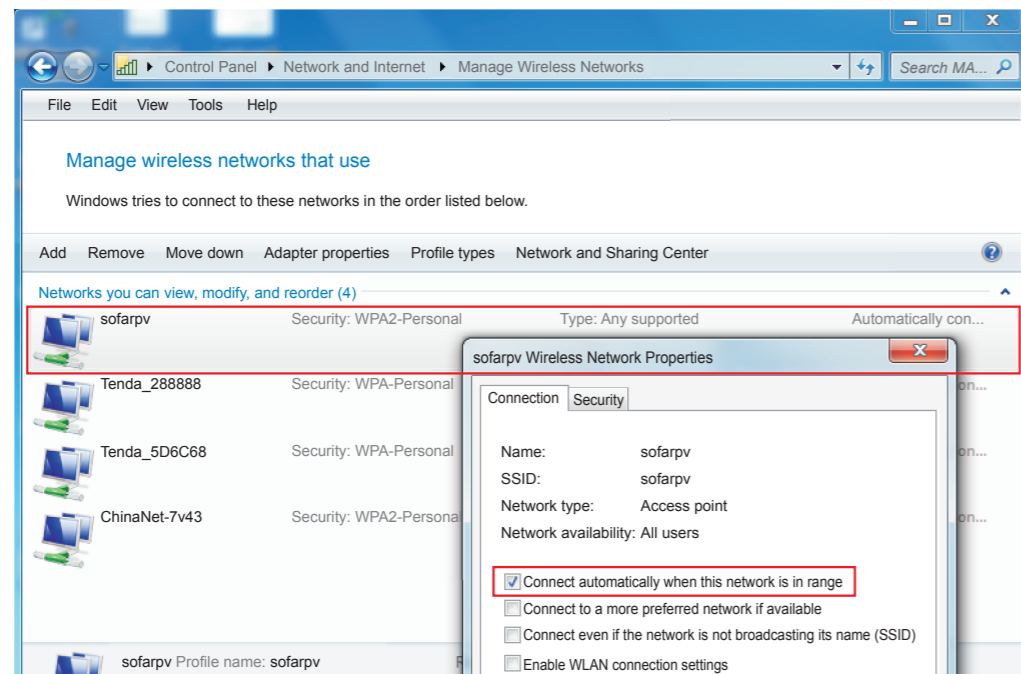
The screenshot shows a final confirmation screen with a sidebar on the left containing menu items: Staus, Wizard (highlighted), Wireless, Cable, Advanced, Account, Update, Restart, and Reset. The main content area is titled "Setting complete! Please close this page manually!". It contains the following text: "Please login our management portal to monitor and manage your PV system.(Please register an account if you do not have one.)" and "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." At the bottom of the screen is a progress bar showing seven steps, with step 7 highlighted.

Setp12: Setup of wireless network connection priority and connection mode.

Open Control panel > Network and sharing center > Manage wireless networks. Set your home router's access point as default to connect with your personal computer automatically. Make sure it has the highest priority. To the device Wi-Fi module, set its AP as default to connect with your personal computer manually.

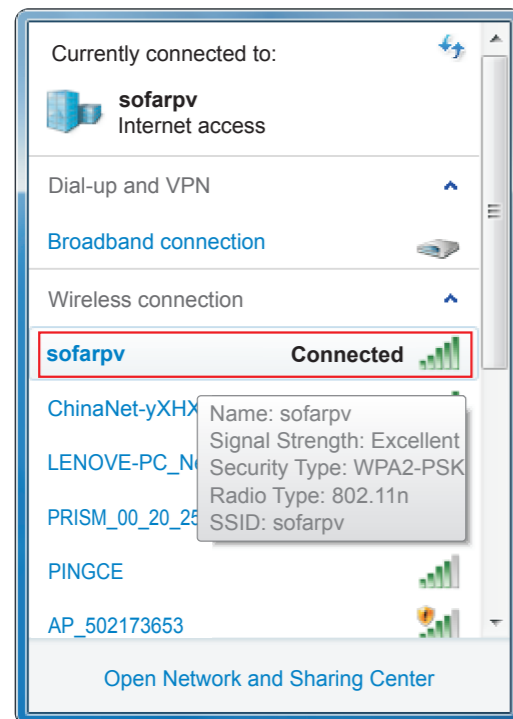
Example: make sure "sofarpv" wireless network connection priority is the highest.

Figure 17



Setp13: Connect with your personal wireless network or WLAN.

Figure 18



2. Register on SolarMAN Portal

Launch your browser, open SolarMAN portal website: <http://www.solarmanpv.com/portal/>

Procedure:

Step1: Click on Register now if you do not have an account.

Figure 19



Step2: Fill in basic registration information upon request.

Figure 20



Note

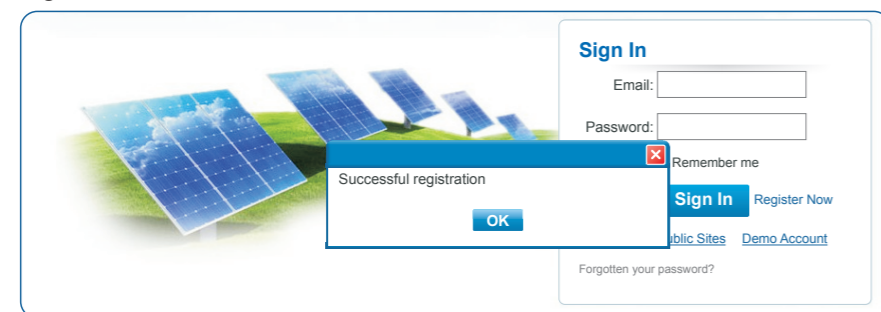
Browsers like internet Explorer 8+, chrome 15+ and Firefox 10+ are recommended.

Step3: Fill in details to complete the registration.

Figure 21

Step4: If registration is successful, the above page will display. Click OK to return to the homepage of the portal.

Figure 22



3. Log in SolarMAN Portal to manage power station

After successful registration, open the login page of SolarMAN Portal, and input your E-mail and password to access the monitoring system and start monitoring and management of power plants.

Figure 23



Note

In order to make sure your solar system is being well monitored by our SolarMAN monitoring system, please click the Real Time label to see if there is real time data within 15 minutes. If so, your SolarMAN network setup is successful. If not, please re-check the above procedure.

Figure 24

| No. | Inverter S/N | DC Input | | | AC Output | | | | Total Energy(kWh) | Temperatu | |
|-----|----------------|----------|------------|------------|-----------|------------|------------|----------|-------------------|-----------|---------------|
| | | Channel | Voltage(V) | Current(A) | Phase | Voltage(V) | Current(A) | Power(W) | | | Frequency(Hz) |
| 1 | SC1ES320E3D001 | PV1 | 577.8 | 8.9 | L1 | 230.8 | 10.9 | 7640 | 49.96 | 5471 | 54.0 |
| | | PV2 | 577.7 | 4.4 | L2 | 235.4 | 10.8 | 0 | | | |
| | | PV3 | 0.0 | 0.0 | L3 | 236.6 | 10.9 | 0 | | | |

★ Add more inverters on SOFAR SolarMAN monitoring system

Click Setting > Device > Add to enter the 9-digit serial number (SN), and then click OK to complete the setting of adding a new inverter.

Figure 25

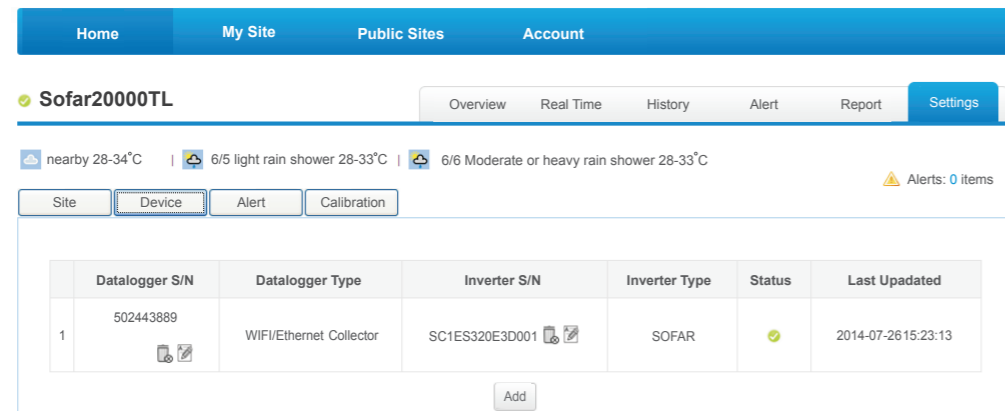
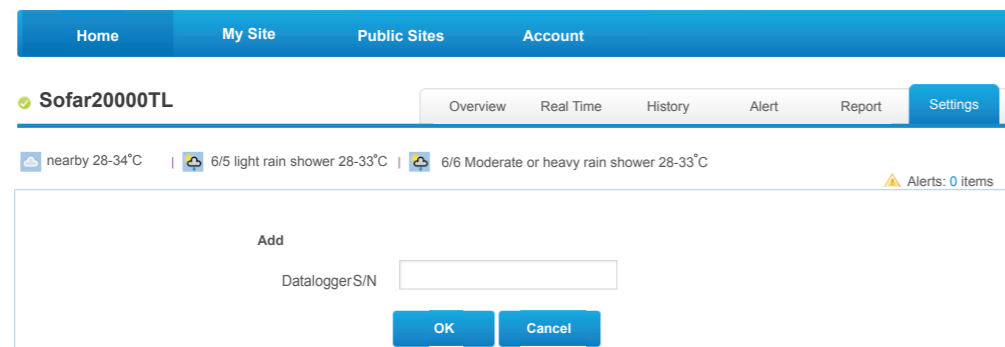


Figure 26



★ Alert notification setup

When any abnormal situation happened to the device, an error message would be sent automatically to your designated email account in second.

Please fill in below your personal email account to complete the setup of your alert notification.

Figure 27

