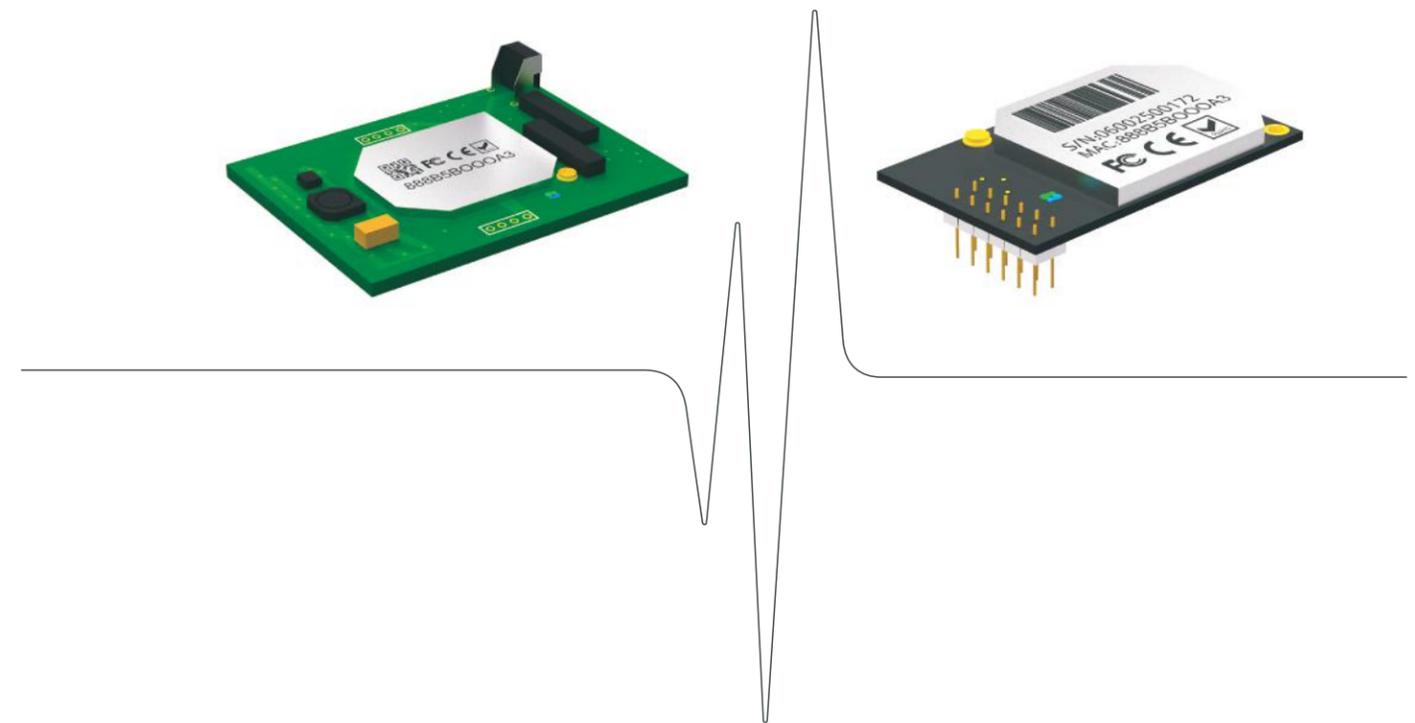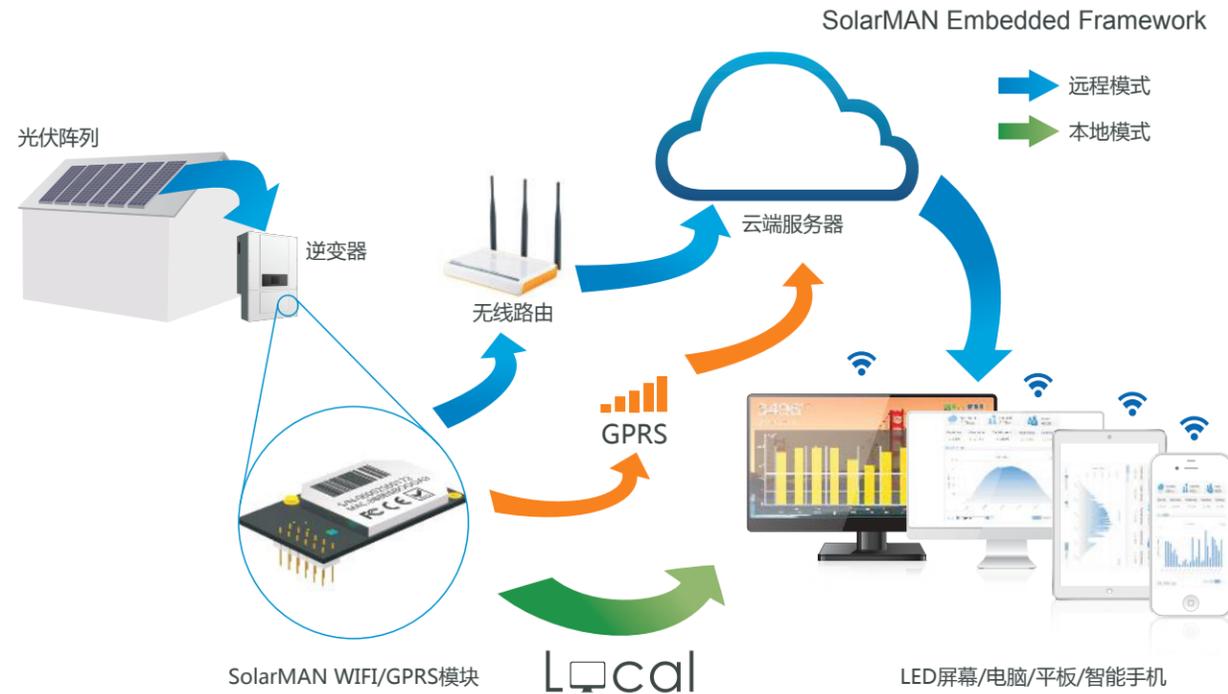# SolarMAN
Monitored Analyzed Networked

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.

SolarMAN Embedded Framework

远程模式
本地模式

光伏阵列
逆变器
云端服务器
无线路由
GPRS
SolarMAN WIFI/GPRS模块
Local
LED屏幕/电脑/平板/智能手机

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

☞	The setting hereinafter is operated with Windows7 for reference only. If other operating systems are used, please follow the corresponding procedures.
Note	

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 📶;

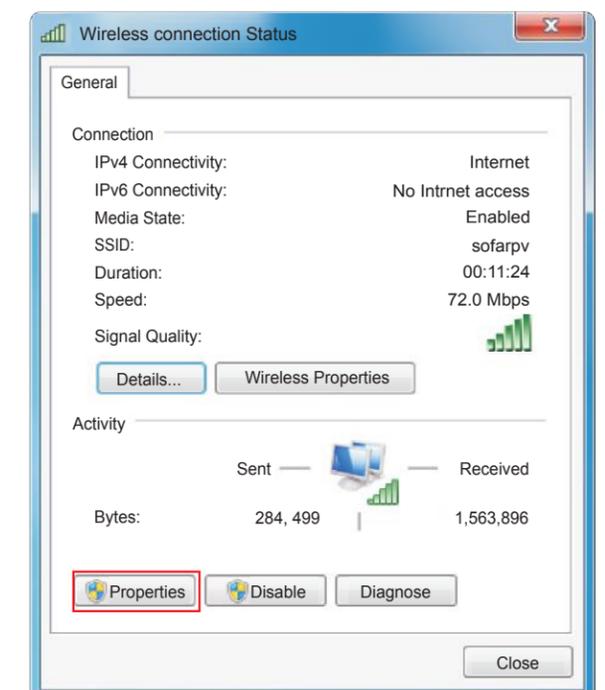**Setp2:** Connect with your personal internet access point (AP) or WLAN.

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

Currently connected to:
sofarpv
Internet access

Dial-up and VPN
Broadband connection
Wireless connection
sofarpv **Connected** 📶
Name: sofarpv
Signal Strength: Excellent
Security Type: WPA2-PSK
Radio Type: 802.11n
SSID: sofarpv
ChinaNet-yXHX
LENOVE-PC_N...
PRISM_00_20_25...
PINGCE
AP_502173653
Open Network and Sharing Center

Figure 2

Wireless connection Status

General

Connection
IPv4 Connectivity: Internet
IPv6 Connectivity: No Intrnet access
Media State: Enabled
SSID: sofarpv
Duration: 00:11:24
Speed: 72.0 Mbps
Signal Quality: 📶

Details... | Wireless Properties

Activity
Sent — 🖥 — Received
Bytes: 284, 499 | 1,563,896

Properties | Disable | Diagnose

Close

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:
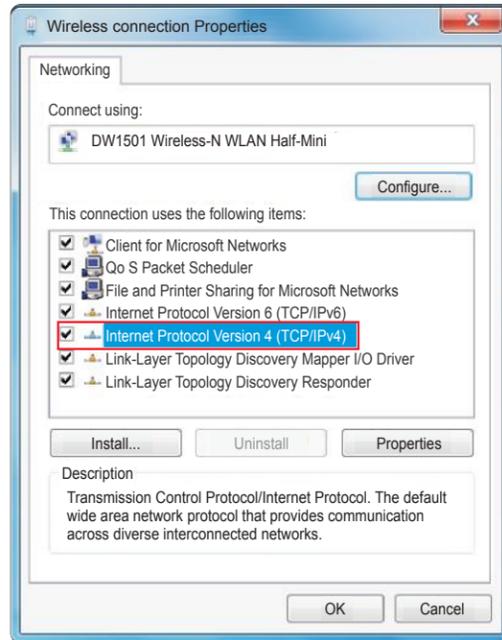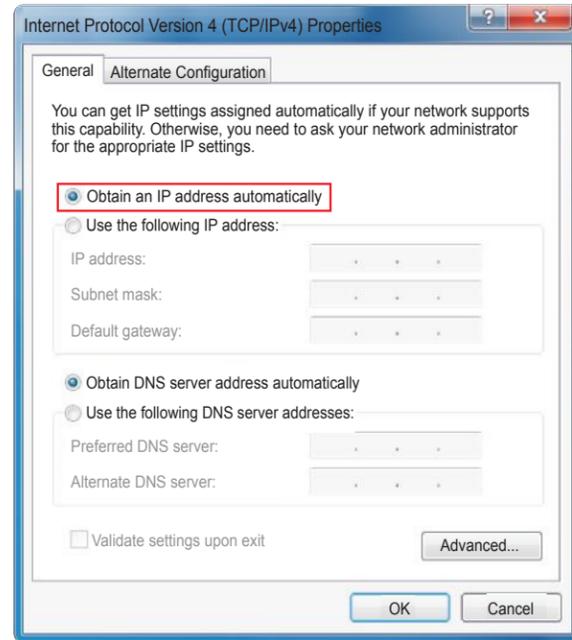
Figure 3

Figure 4

3. SOFAR inverter Wi-Fi module setup
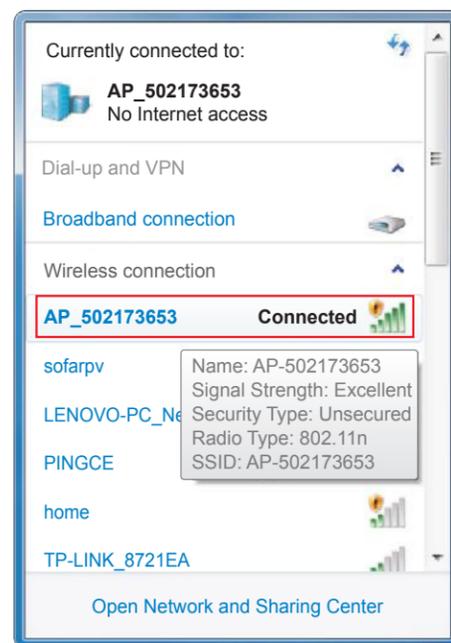
Procedure:

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

☞	**Browsers like internet Explorer 8+. chrome 15+ and Firefox 10+ are recommended.**
Note	

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

Figure 8

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

Figure 9

Staus	**Dear users:**
Wizard	
Wireless	
Cable	
Advanced	Thank you for choosing our device.
Account	Next, you can follow the setup wizard to complete the network setting step by steep;
Update	or you can select the left menu for detailed setting.
Restart	
Reset	★ 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

Staus	**Connection Settings:**
Wizard	
Wireless	
Cable	
Advanced	
Account	
Update	⦿ Wireless connection
Restart	○ Cable connection Wireless [Enabled ▾]
Reset	

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

Staus	**Please select your current wireless network:**
Wizard	○ SZKTZ 5e:ac:0a:2c:bc:3f 10% 1
Wireless	○ TP-LINK_3B 4e:ac:0a:2c:bc:3b 10% 1
Cable	○ YDS-WIFI 4c:ac:0a:2b:04:9f 76% 1
Advanced	○ PRISM_00_20_25 5e:ac:0a:26:8b:fe 10% 1
Account	○ ChinaNet-EWtw 5e:ac:0a:2b:04:9f 70% 1
Update	○ ChinaNet-kwza 4c:ac:0a:26:8b:fe 46% 1
Restart	⦿ sofarpv e0:05:c5:b2:7b:5a 81% 2
Reset	○ 360WIFI-99FA 90:94:e4:3c:61:1c 46% 2
	○ SCJ 00:21:27:46:c5:98 29% 3
	○ TP-LINK_2.4GHz_F2BC95 ac:cf:23:ff:02:9c 100% 3
	○ PINGCE ec:6c:9f:04:b3:2c 96% 6
	○ 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)   [sofarpv]

Encryption method   [WPA2PSK ▾]

Encryption algorithm   [TKIP ▾]

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

Staus	**Please enter the wireless network password:**
Wizard	
Wireless	
Cable	
Advanced	
Account	
Update	Password(1-32 bytes) [••••••]
Restart	(Note: case sensitive)
Reset	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

Please fill in the following information:

Obtain an IP address automatically	Enable ∨
IP address	0.0.0.0
Subnet mask	0.0.0.0
Gateway address	0.0.0.0
DNS server address	

Back   Next

1   2   3   4   **5**   6   7

Staus
Wizard
Wireless
Cable
Advanced
Account
Update
Restart
Reset

Setp10: Click Next.

Figure 14

Enhance Securlty

You can enhance your system security by choosing the following methods

Hide AP ☐

Change the encryption mode for AP ☐

Change the user name and password for Web server ☐

Back   Next

1   2   3   4   5   **6**   7

Staus
Wizard
Wireless
Cable
Advanced
Account
Update
Restart
Reset

Setp11: Click OK to wait for setting complete.

Figure 15

Setting completel

Click OK, the settings wil take ffect and the system will restart immediately.

If you leave this interface without clicking OK, the settings will be ineffective.

Back   OK

1   2   3   4   5   6   **7**

Staus
Wizard
Wireless
Cable
Advanced
Account
Update
Restart
Reset

Figure 16

Setting complete! Please close this page manually!

Please login our management portat to monitor and manage your PV system.(Please register an account if you do not have one.)

Tore-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.
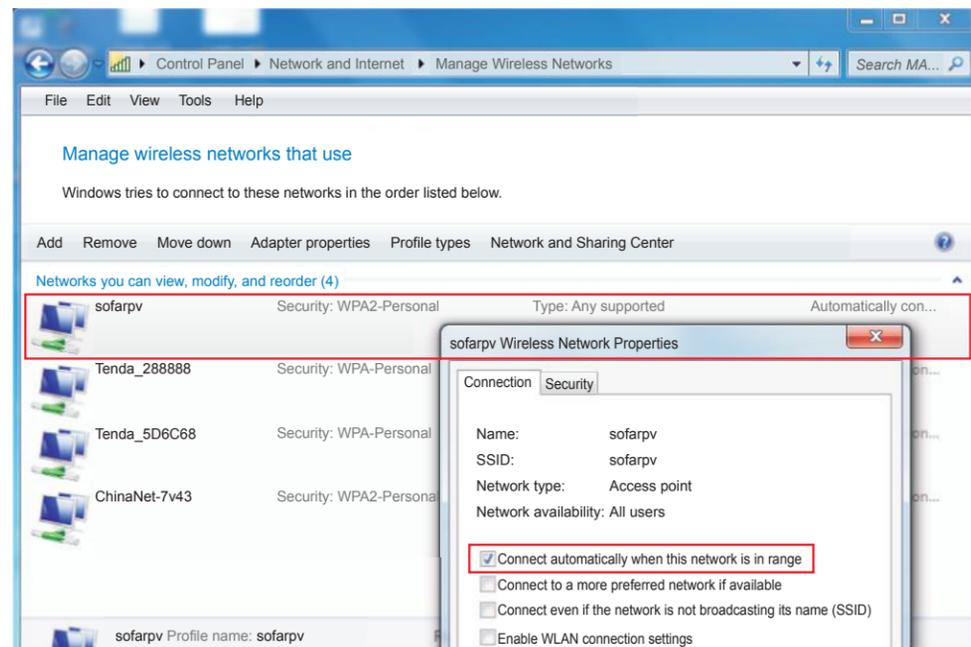
1   2   3   4   5   6   **7**

Staus
Wizard
Wireless
Cable
Advanced
Account
Update
Restart
Reset

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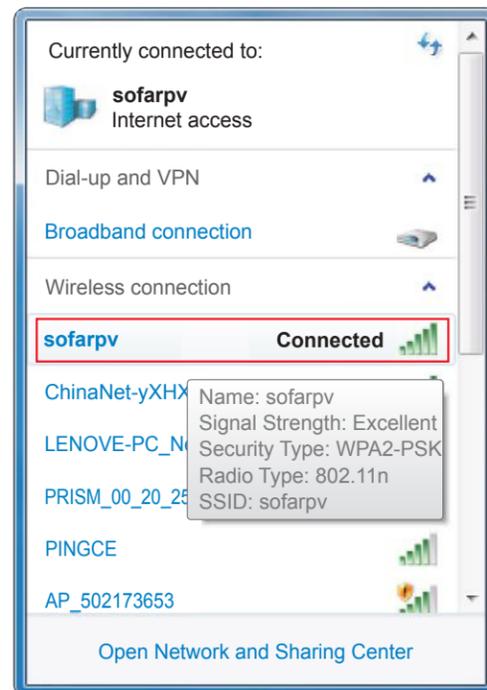
Example: make sure "sofarpv" wireless network connection priority is the highest.

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. |

Setp3: Fill in details to complete the registration.

Figure 21

Setp4: 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

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.

Note

Figure 24

★ 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.
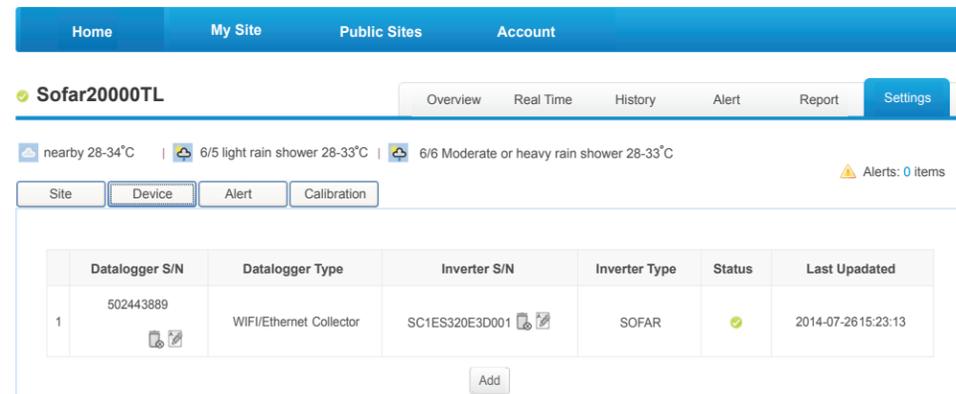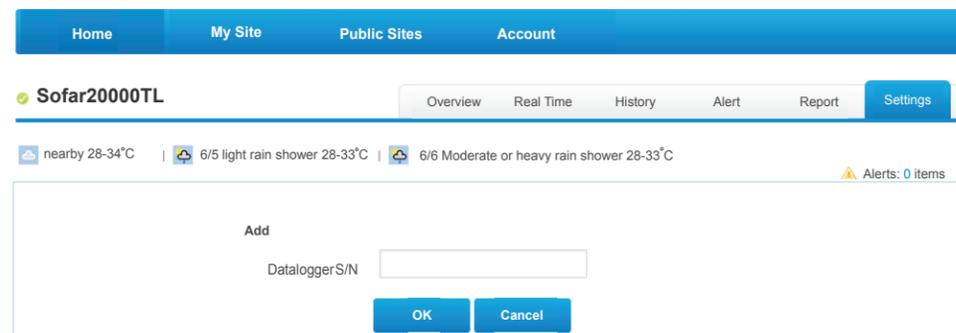
Figure 25

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