WiFi Plug

User Manual

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Content

1. Introduction

SolarMAN WiFi Plug is a data logging module. With its "plug & play" function, the WiFi Plug can collect information of PV systems from the inverter when it is connected with an inverter.

With the integrated WiFi function, the WiFi Plug can connect with a router and transmit data to the web server, enabling users to view the 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 WiFi Plug via WiFi and directly obtain data from it.

2. Device Layout

Picture 1

3. Connect the WiFi Plug with the Inverter

3.1. Power off the solar inverter

3.2. Remove the cover of the RS 232 Port on the bottom of the inverter.

3.3. Connect the WiFi Plug with the RS232 Port on the inverter by fastening screws. Please double check if the WiFi Plug is locked tightly or not as the sealability is important.

4. Network setting

4.1 Power on the solar inverter and the WiFi Plug will start to work.

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

4.2 Prepare a computer or device, e.g. tablet PC or smart phone that enables WiFi.
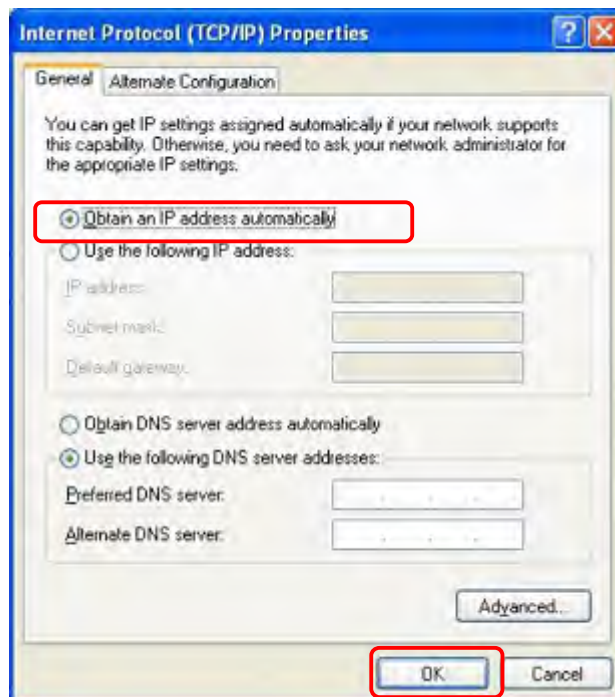
4.3 Obtain an IP address automatically

4.3.1 Open **Wireless Network Connection Properties**; double click **Internet Protocol (TCP/IP)**
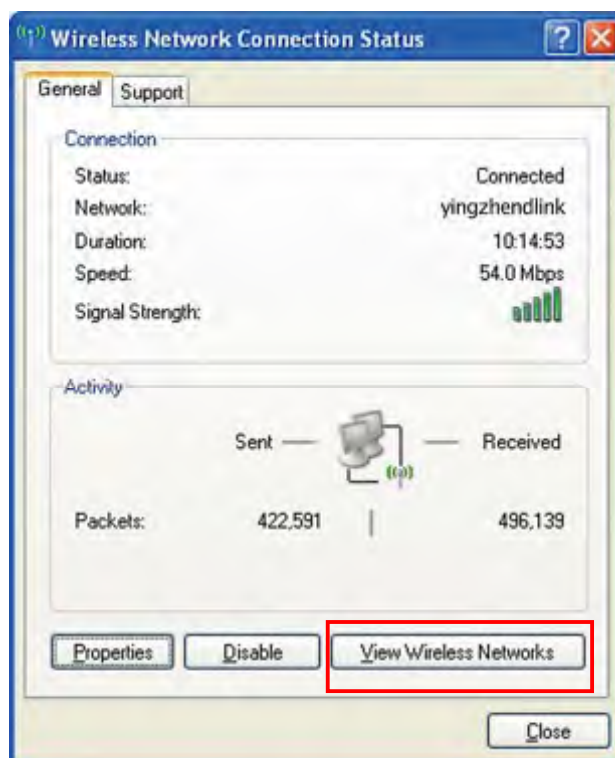

Picture 2

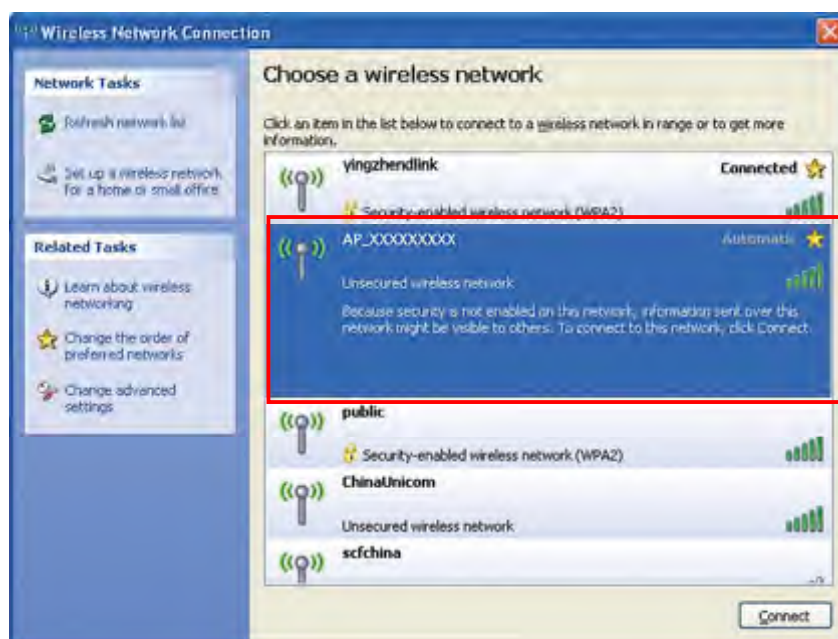4.3.2 Select **Obtain an IP address automatically**, and click **OK**

Picture 3

4.4 Set WiFi connection to the WiFi Plug

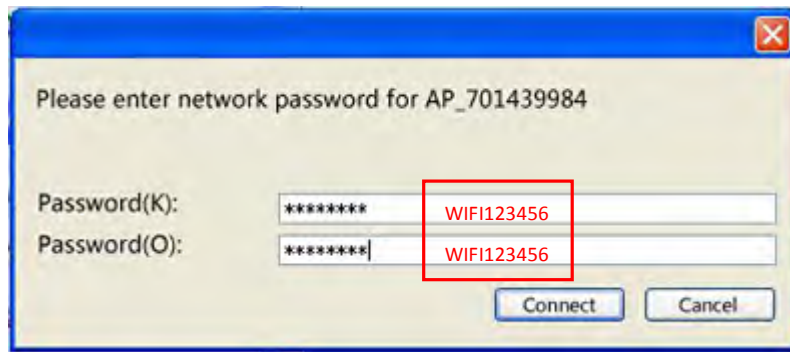4.4.1 Open wireless network connection and click **View Wireless Networks**

Picture 4

4.4.2 Select wireless network of the WiFi Plug. The network name consists of **<u>AP</u>** and the **<u>serial number of the product</u>**. Then click **Connect.**
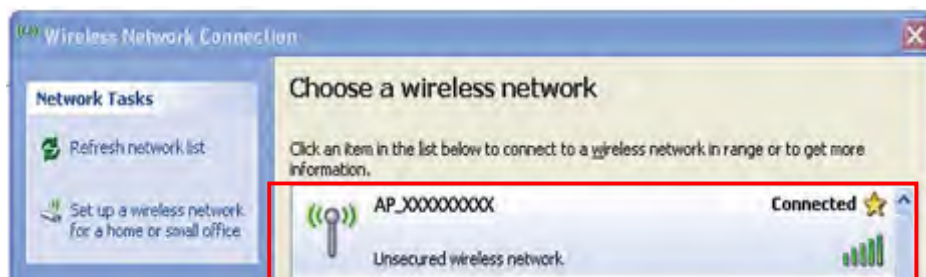

Picture 5

4.4.3 Please enter password which are both WIFI123456 as default.

Picture 6

4.4.4 Connection successful

Picture 7

Notice:

If **AP_ (serial number of product)** *is not available in the wireless network list, there may be problems in the connection between the WiFi Plug and the inverter or in setting of WiFi Plug. Please check if the WiFi was installed ok, and inverter has been powered on.*

5. Parameters setting

5.1 Open a web browser, and enter **10.10.100.254**, the "Authentication Required" interface will appear, and then fill in username and password, both of which are **admin** as default.

> *If the "Authentication Required" interface cannot appear, please use another web browser!*
>
> *Recommended browsers: Internet Explorer 8 or above, Google Chrome 15 or above, Firefox 10 or above!*
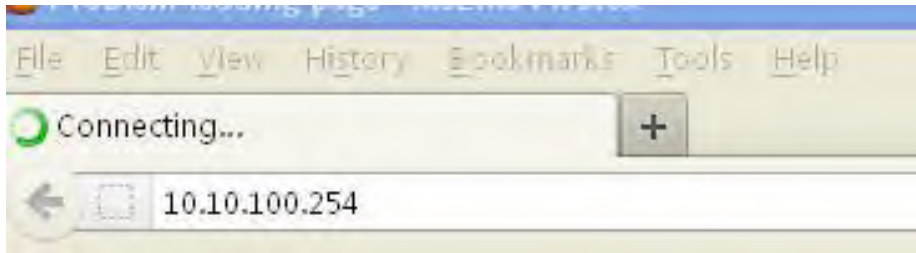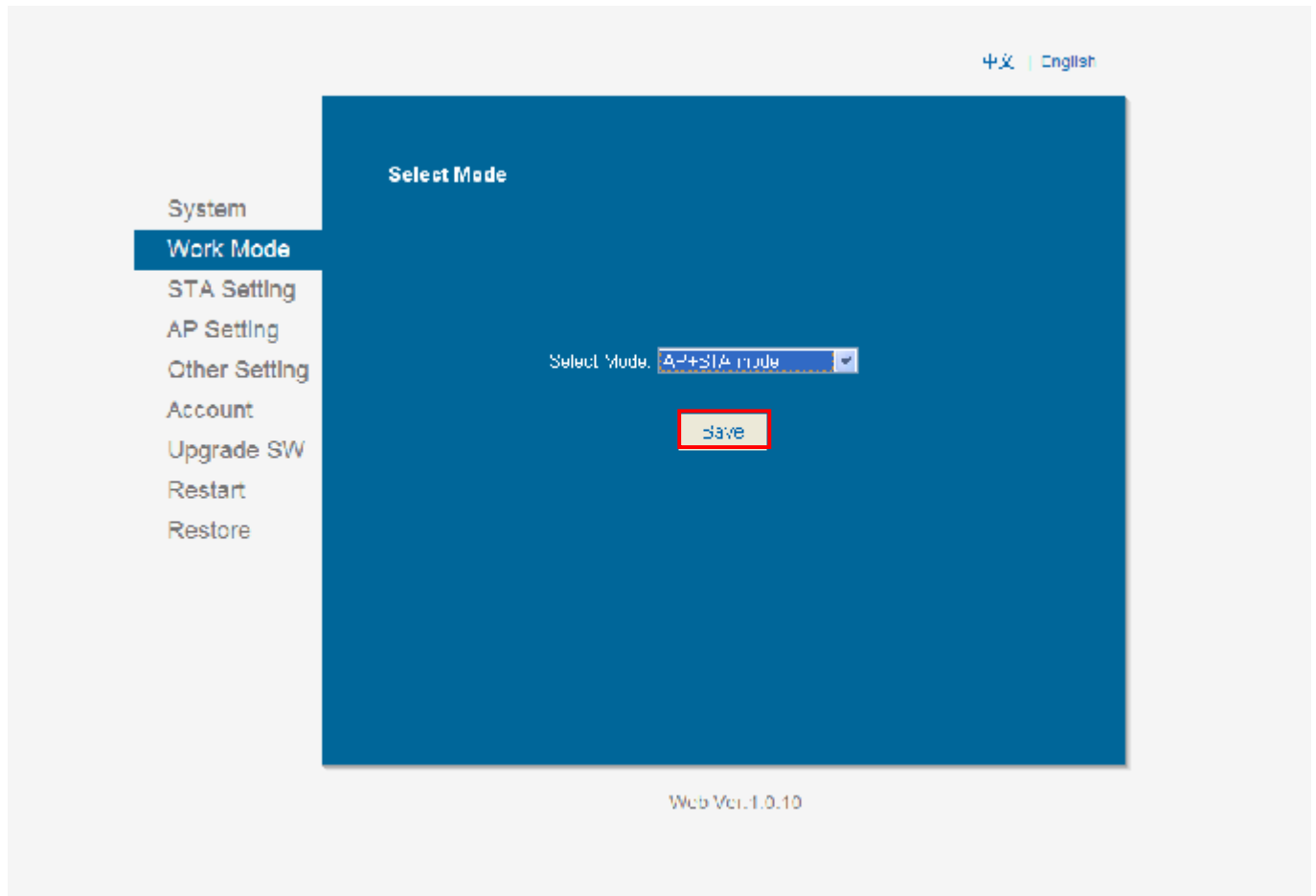

Picture 8
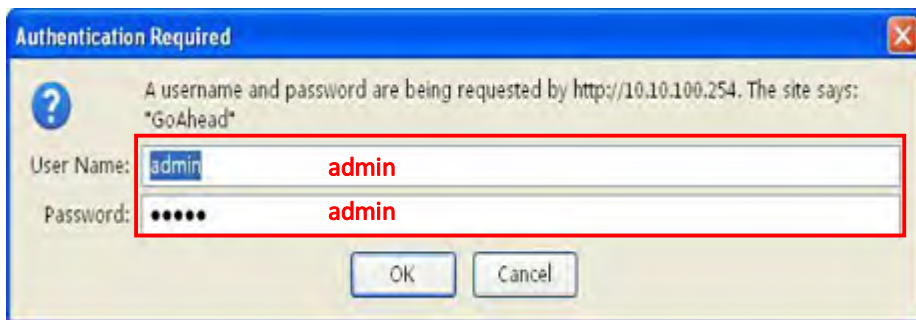
Picture 9

5.2 In the System interface of WiFi Plug, you can view general information of the WiFi Plug.

Picture 10

5.3 Click "Work Mode" and the "Work Mode" interface will appear, here you can set the "Work Mode". Please see Picture 11
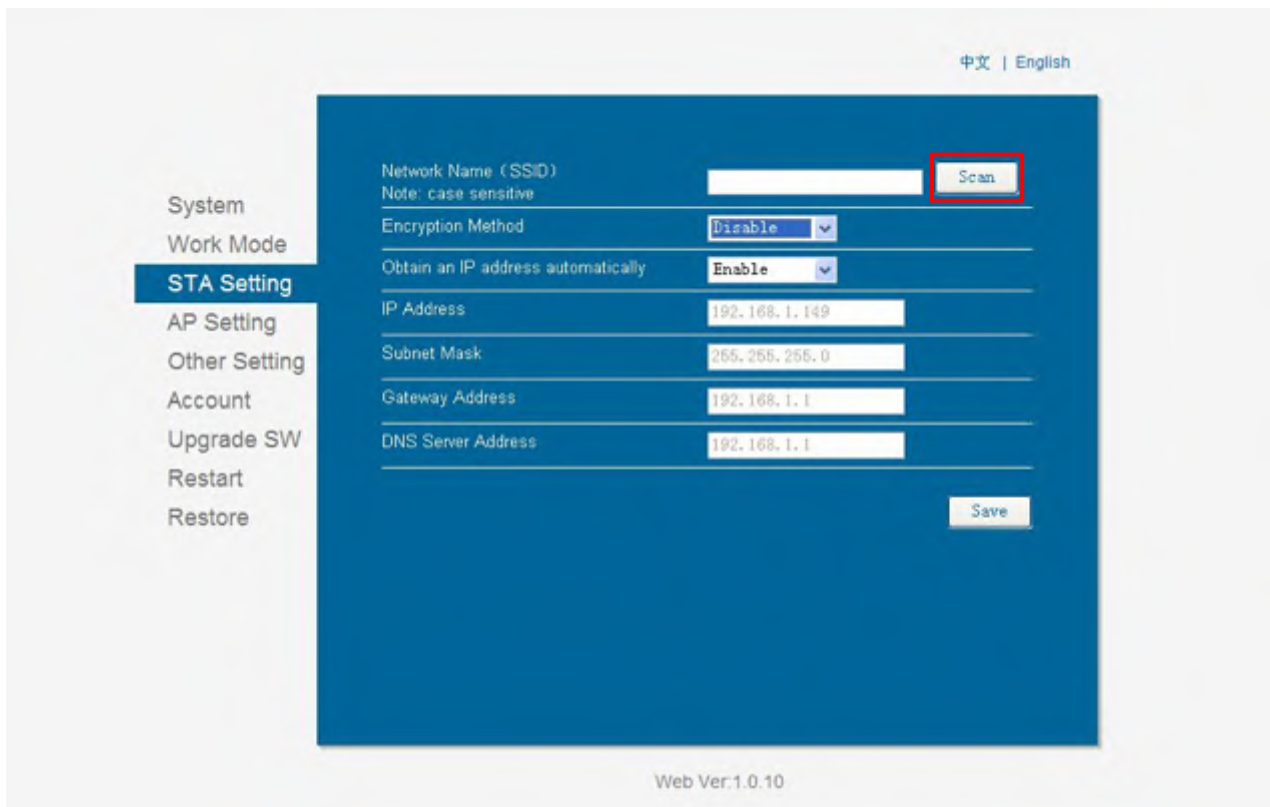
Picture 11

> **Notice:**
>
> *1. In STA mode, after the web server is connected to the router, it will work as a client only, and the SSID of AP network will be invisible.*
>
> *2. In AP mode, after the web server is connected to the router, it will work as another router, and the SSID of the AP network will be visible.*
>
> *3. The WiFi Plug works under both AP and STA mode is recommended.*

5.4 Start quick setting via "STA Setting" interface

5.4.1 Click **Scan** to search the wireless network

Picture 12

5.4.2 Select the wireless network you need to connect, and then click **OK**

Picture 13

> **Notice:**
>
> 1. If the wireless network you need to connect is unavailable, please click Refresh to search it again.
>
> 2.If the signal strength (RSSI) of the selected network is lower than 15%, which means unstable connection, please adjust the antenna of the router, or use a repeater to enhance the signal.

5.4.3 After clicking OK, the interface will return to the following page (see picture 14), please click **OK** and enter the password for the selected network and then click **Save**.
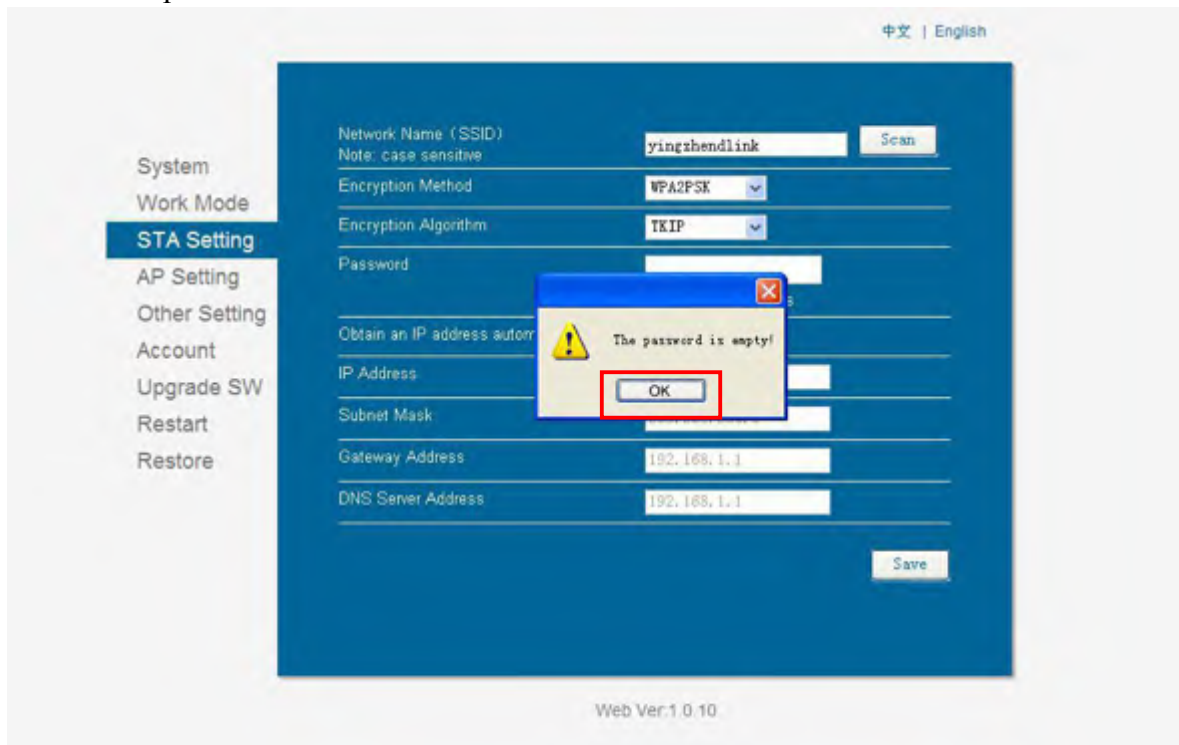
Picture 14

5.4.4 Enter the password for the selected network, then click **Save**

Picture 15

5.4.5 If saved successfully, the following page will display. Please click **Restart**

Picture 16

*Notice: Only after clicking **Restart**, the setting will take effect.*

5.4.6 Re- log on this setting interface after the Web server reset, and check the network connection status of the module on "System" interface.

Picture 17

Notice:

1. After network setting is completed, the Wireless STA mode should be enabled and relative information of your router will display on the interface automatically as follows:
Router SSID: the SSID of your router.

Signal Strength：*%　（please refresh the page if it shows "0"）

IP address：192.168.1.***（Please refresh the page if it shows 0.0.0.0）

Mac address：the Mac address of your local network

2. Network setting might be failed if it still shows 0 or 0.0.0.0 in the signal strength and IP address column. Please try to reconfigure the network connection to the device from step (a) on page 6.

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6. Modify the account information for the WiFi Plug

6.1 Please enter the new username as well as password you would like to use, then click Save.

Picture 18

6.2 After clicking Save, the following interface will display, please click Restart

Picture 19

> **Notice:**
>
> *1. Only after clicking **Restart**, the setting will take effect*
>
> *2. Please enter the new username as well as password when you try to logon to this module next time*

7. Register on SolarMAN Portal

Open a web browser and visit the portal website: http://www.solarmanpv.com/portal .

> *Recommended browsers: Internet Explorer 8 or above, Google Chrome 15 or above, Firefox 10 or above,*
>
> *Safari 4 or above!*

Click **Register Now**

Picture 20

Fill in your email address and password, and then click **Next**

Picture 21

Fill in the information as required, then click **Complete**

Picture 22

If registration is successful, the above interface will display. Click **OK** to return to the homepage of the portal.

Picture 23

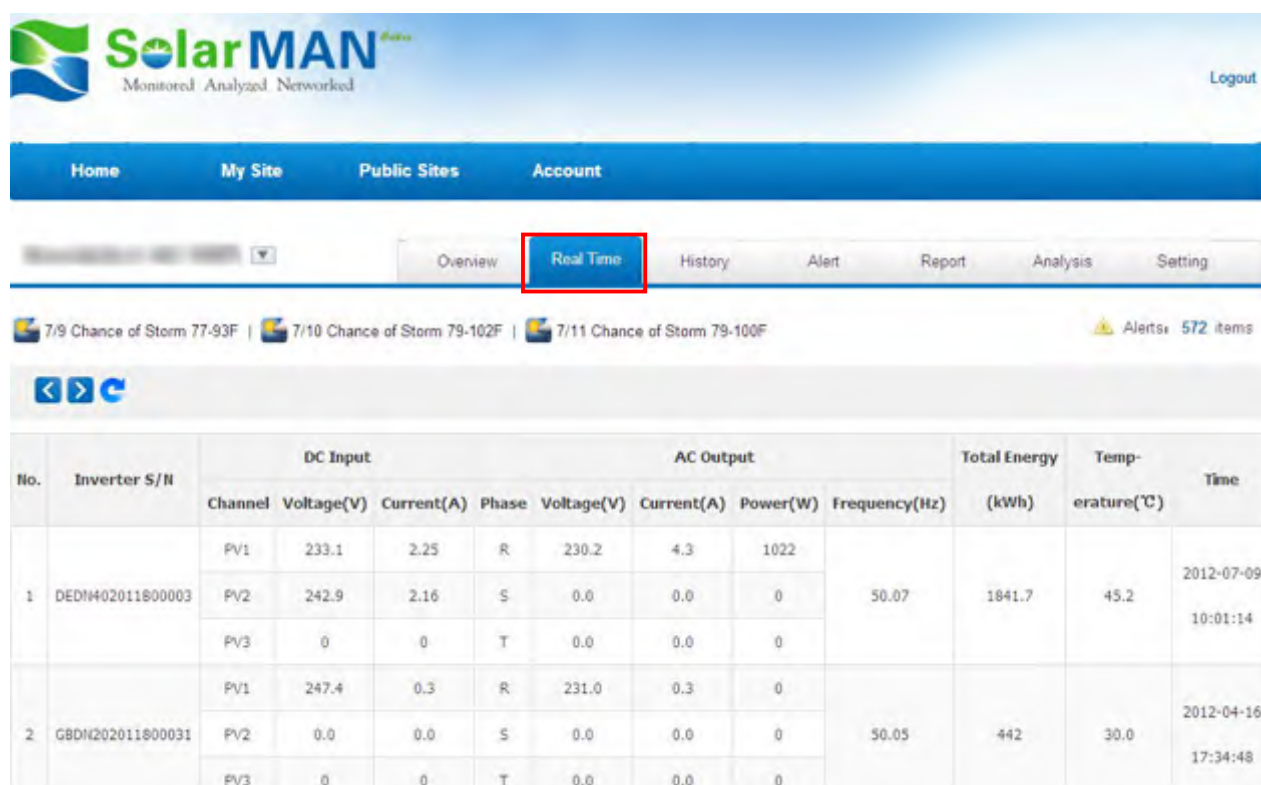## 8. Log in SolarMAN Portal to manage power station

After successful registration, visit 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.

Picture 24

Notice:

If users access the monitoring system for the first time within ten minutes after successful registration, please check the "Real Time" interface. If there are data shown in the Real Time interface, network setting of data logger and other connection are deemed successful.

Picture 25

9. Contact us

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

◆ Device model
◆ Serial number of WIFI Plug
◆ Type of your inverter

IGEN Tech. Co., Ltd.

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