



V1000+ Quick Installation

❖ How to check your V1000+ Register SN

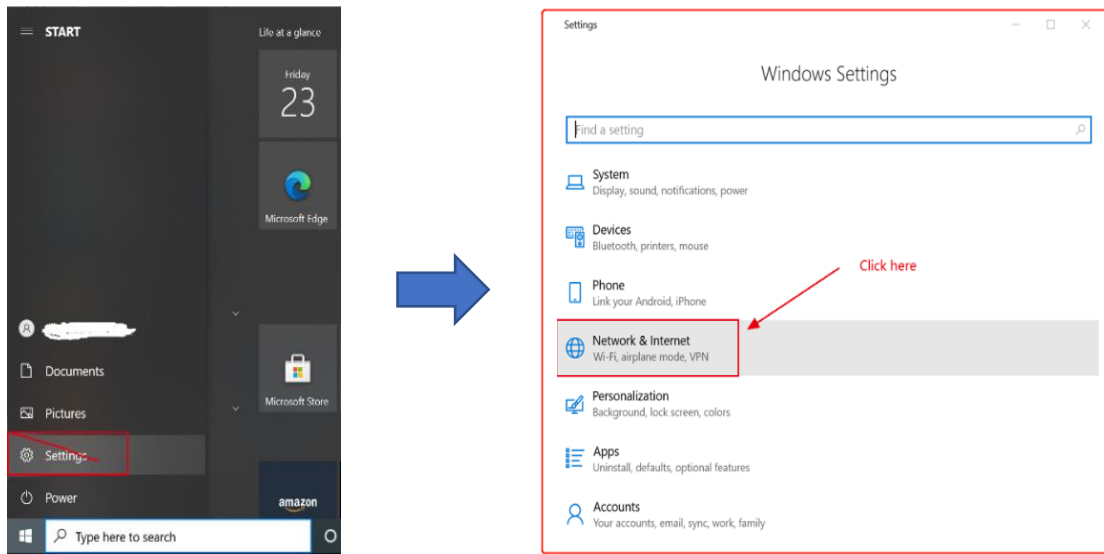
1. Configure your PC IP address first. You need to setup your PC IP address showing on the below picture, so that your PC can communicate with V1000+, and you can check information or change settings via your PC;

	V1000+ default	PC
IP	192.168.0.100	192.168.0.101
Netmask	255.255.255.0	255.255.255.0
Gateway	192.168.0.254	192.168.0.254

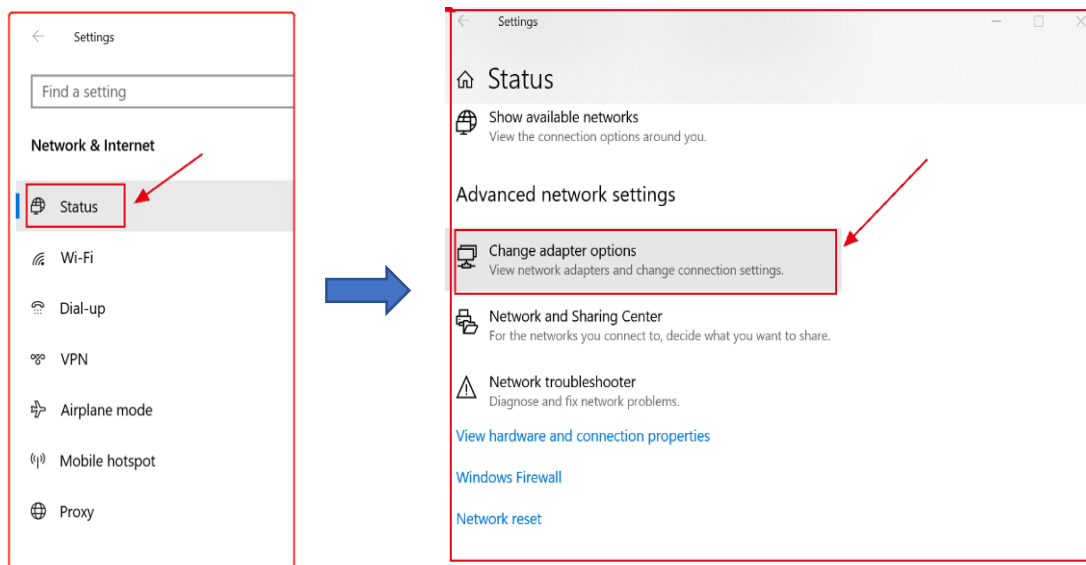
- **Step 1:** Connecting V1000+ to your PC via Standard Ethernet cable, and Connecting DC adapter to V1000+ as well; (It is suggested to remove all the other ethernet cables installed to your PC when you doing this, or you have to make sure you are configuring right Ethernet Port);
- **Step 2:** Power on V1000+, and then open your PC;



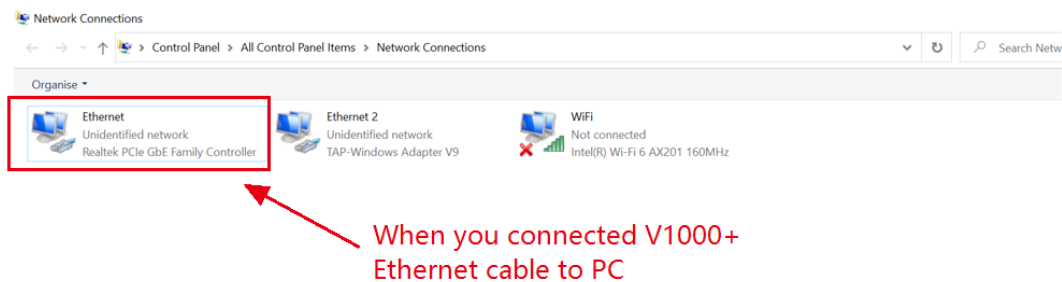
- **Step 3:** Go to your PC (based on Win 10 operation system), click “Start” icon, then click “Settings” option; then find “Network & Internet”.

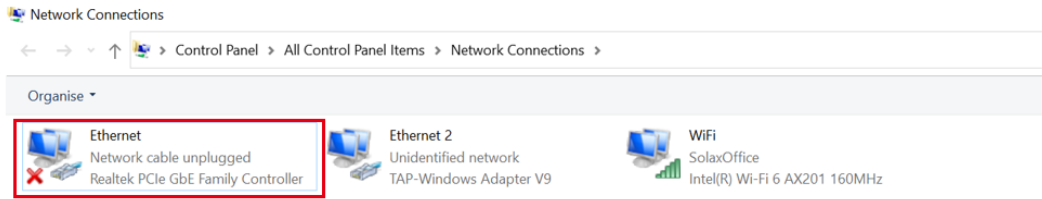


- **Step 4:** Click “Network & Internet”, then Click “Status”;



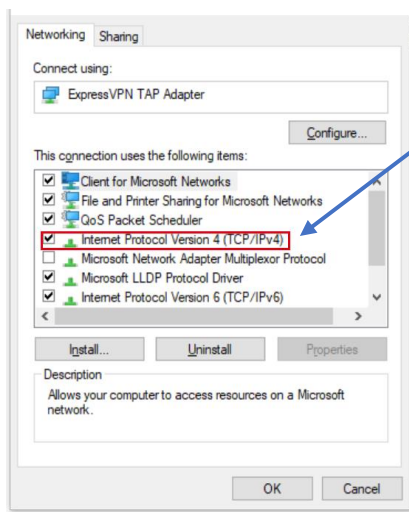
- **Step 5:** **Configure correct Ethernet Port** (you can unplug and plug Ethernet cable to confirm it), see below picture;



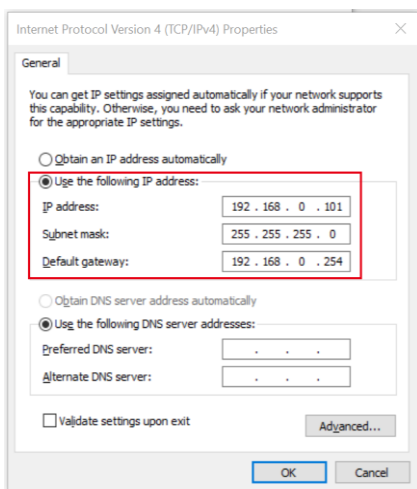
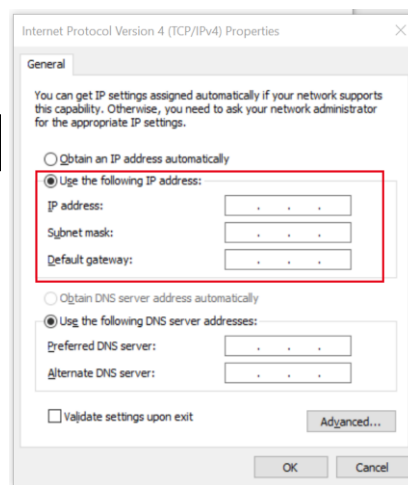


When you disconnect V1000+ Ethernet cable from PC

- **Step 6:** Double Click “Ethernet”, it will pop up the below page, then Double click “internet Protocol Version 4 (TCP/Ipv4)”, and filling in PC address in the list to the corresponding blank;



Double click



	V1000+ default	PC
IP	192.168.0.100	192.168.0.101
Netmask	255.255.255.0	255.255.255.0
Gateway	192.168.0.254	192.168.0.254

2. Check your **Register SN** (If entered wrong SN when you registering inverter online, it will get problem that no data uploading to online monitoring).

- **Step 1:** After you finished PC IP address configuration, then open browser and enter **192.168.0.100** , you will see below page,

Logger Info.	V1000 Plus	Date & Time	2019-6-1 0:05:30
IP Address	192.168.0.100	Language	English
UPLOAD	(Edit)	Administration	admin
Irradiance Calibration	0w/m²	RS485-1 Search Starting Address	1
Solar Cell Temperature Calibration	-40°C	Irradiance Address	31
Ambient Temperature Calibration	-40°C	Temperature Address	32
RS485-2 Search Starting Address	1	RS485-2 application mode	(Edit)
Grid Voltage Range	Voltage Parameter	Grid Frequency Range	Frequency Parameter
Regulation Parameter	Regulation Parameter	Q Parameter	Q Parameter
Customer Parameter	Customer Parameter	Power Limit	Setting
Digital Meter	Measurement Value	Active Power Control	Setting

- **Step 2:** Click “V1000 Plus”, then it will require to enter into Name & Password;



Click “V1000 Plus”, and input below:
Name: admin
Password: admin

- **Step 3:** After you enter into Name & Password, and click “Login” button, you will get:

Energy Meter Lost V1000 Plus Settings Logs List Main

Now 0 kW
Today 0 kWh
Total 0 kWh
kwh/kwp 0

SENSORS
Irradiance 0 w/m²
Thermometer -40 °C

MODEL : V1000 Plus
S/N : 1291931000404
Version : 010604
DB Version : 23107-03 / DBEX02
Name : V1000 Plus
Save

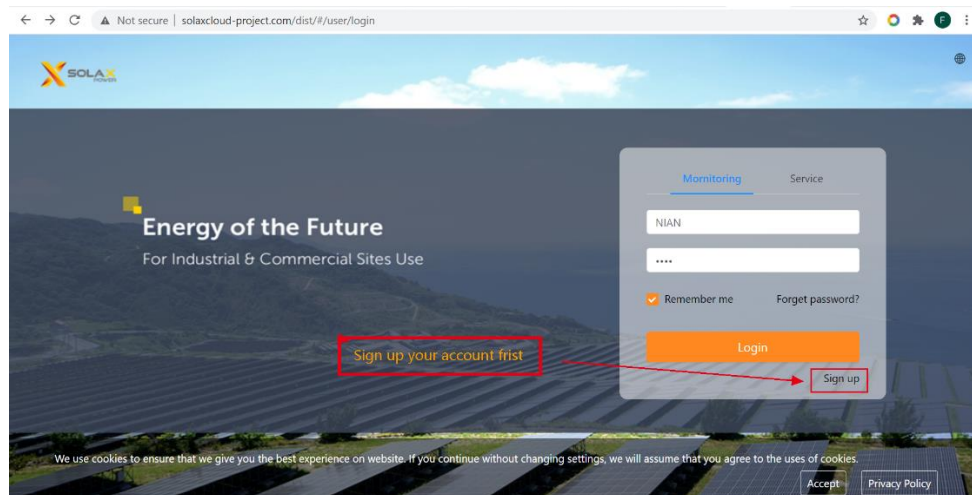
THIS IS YOUR Register SN !!!

When you register your inverter online, you will need this.

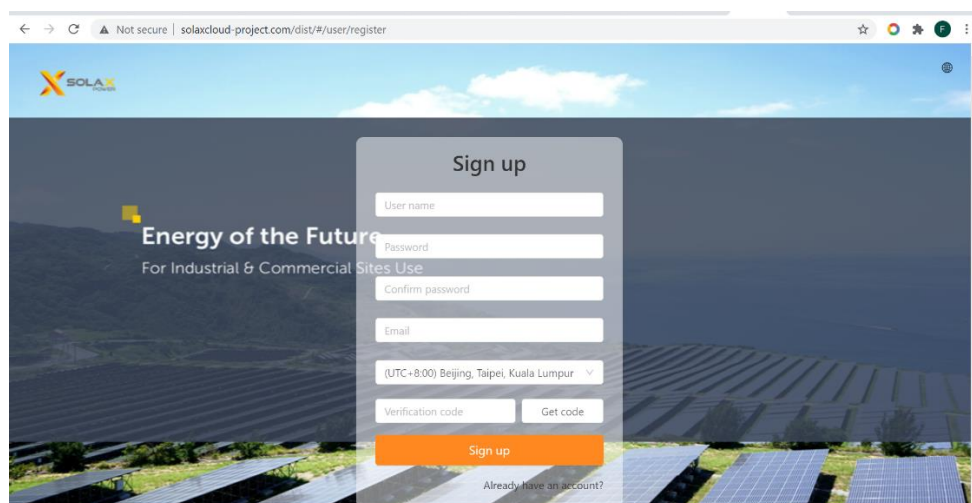
❖ Register your Inverter online;

You need to create your monitoring account first, and then create plant, and adding relevant information to the accordingly plant. Please refer to below steps.

- **Step 1:** Open your PC, go to browser and enter <http://www.solaxcloud-project.com/dist/#/user/login> , then sign up your account;

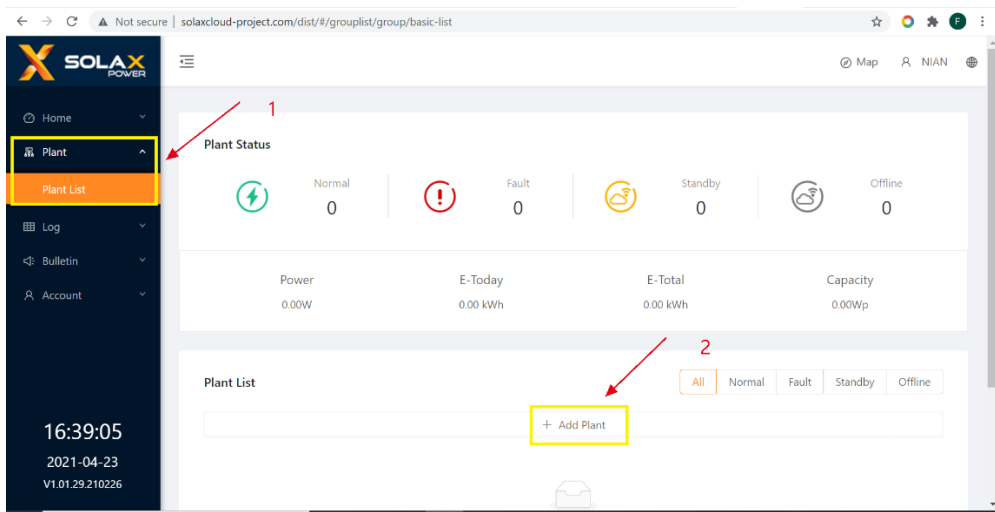


- **Step 2:** Filling in relevant information showing below sign up, make sure enter in valid email address so that you can get verify code;

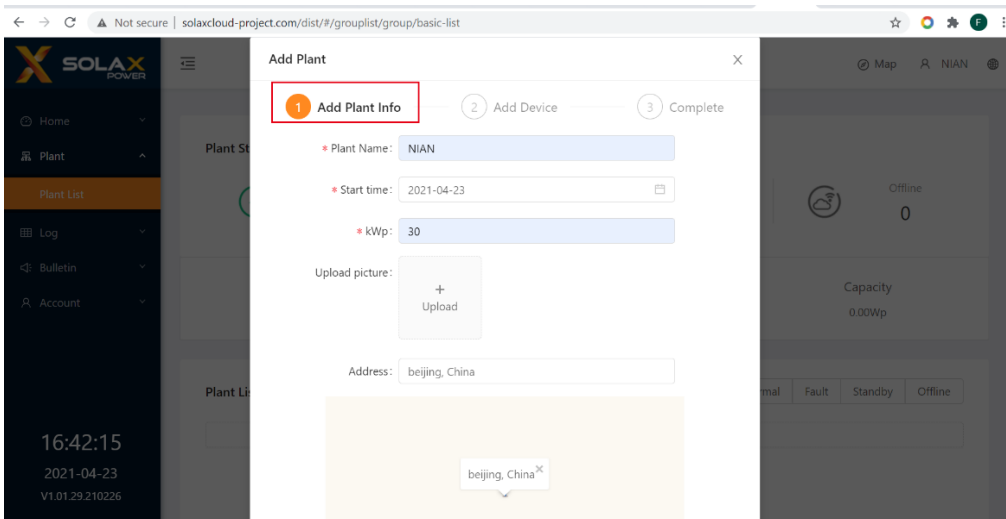


- **Step 3:** After verified process, then you need to login monitoring website by using your user name and password that you just signed up;

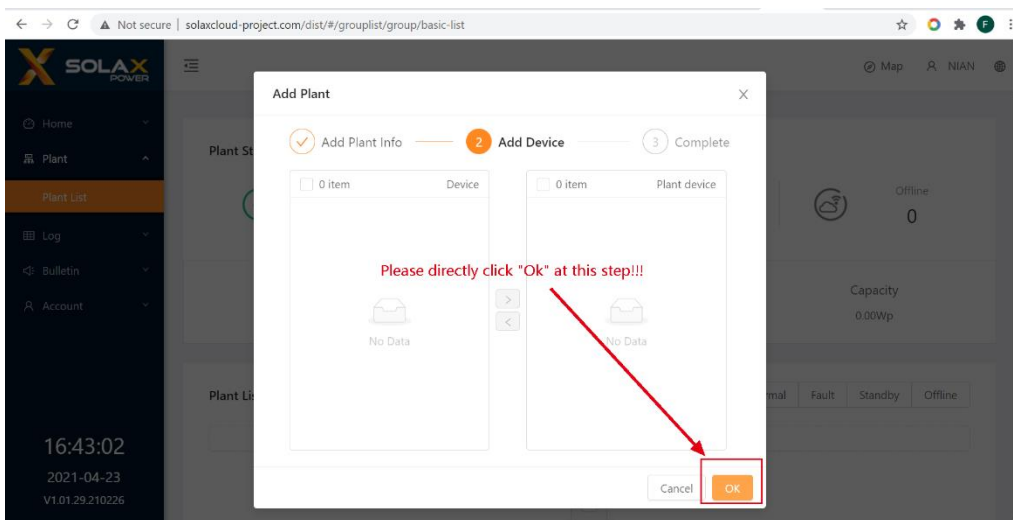
- **Step 4:** Find “Plant List”, and then click “Add Plant”;



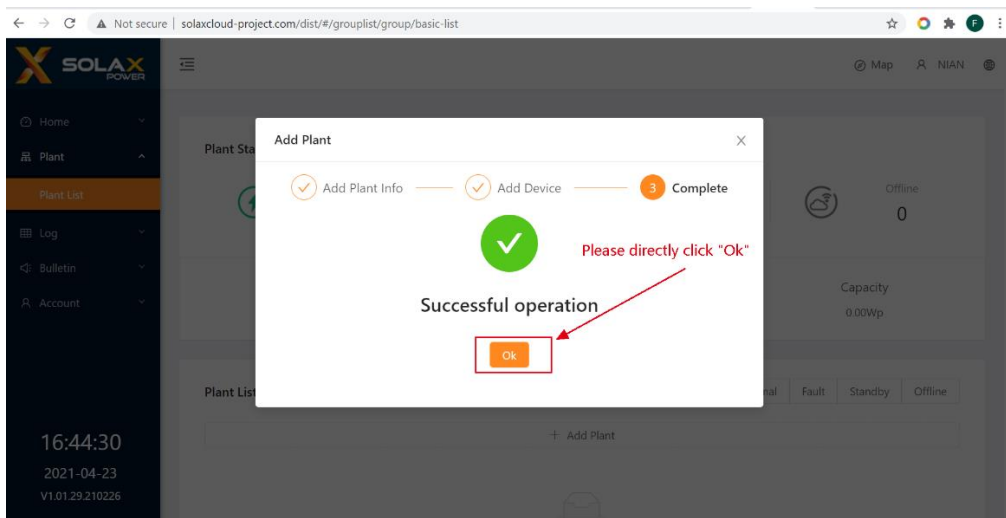
- **Step 5:** Add necessary information to “Add Plant Info”;



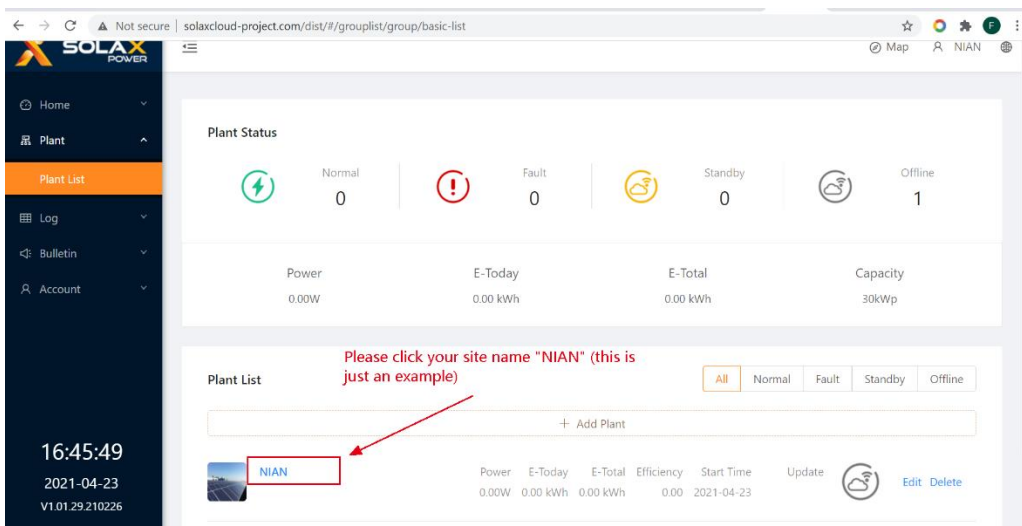
- **Step 6:** Please click “OK” button at this step, and no need to fill in any information;



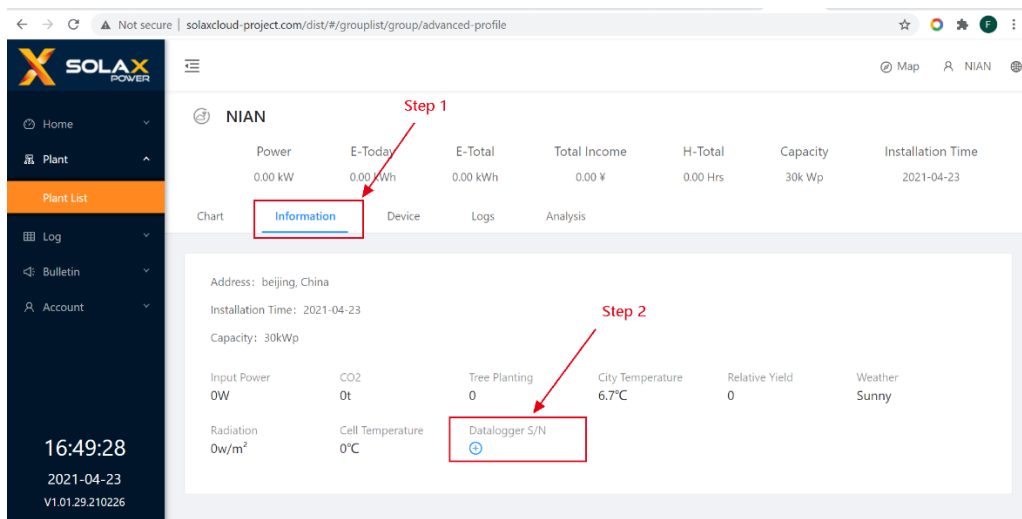
- **Step 7:** Please click “Ok” button at this step, and no need to fill in any information;



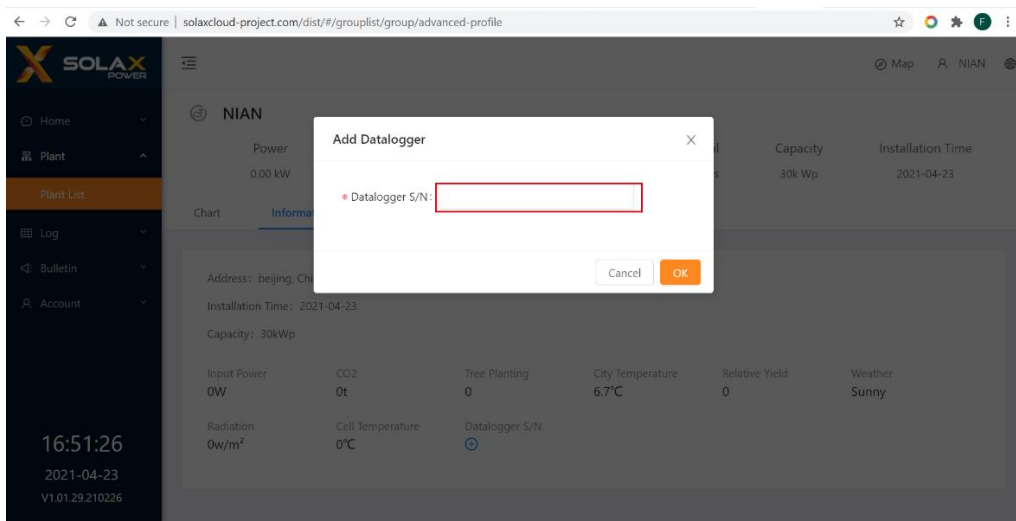
- **Step 8:** Since you have added Plant successfully via the above steps, now you can see the Plant name that you added, click Plant name;



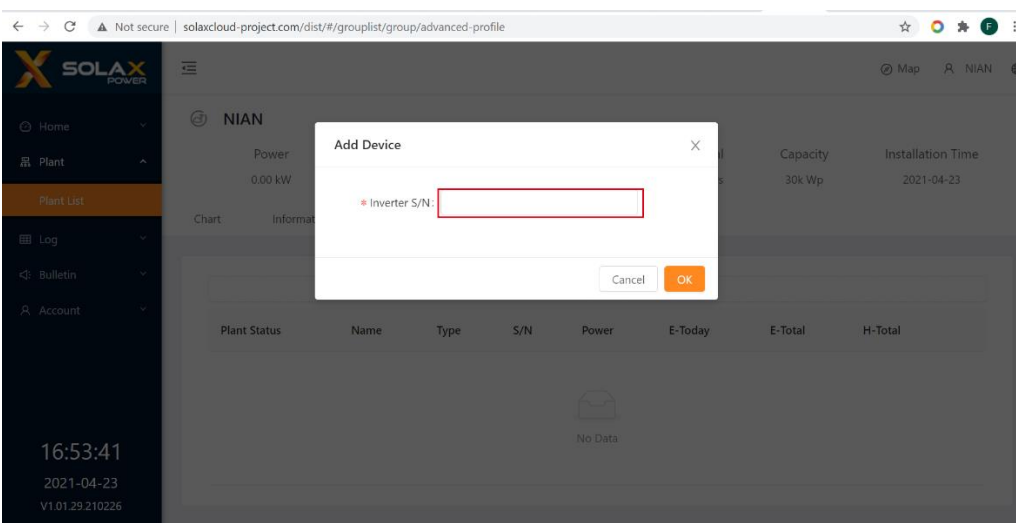
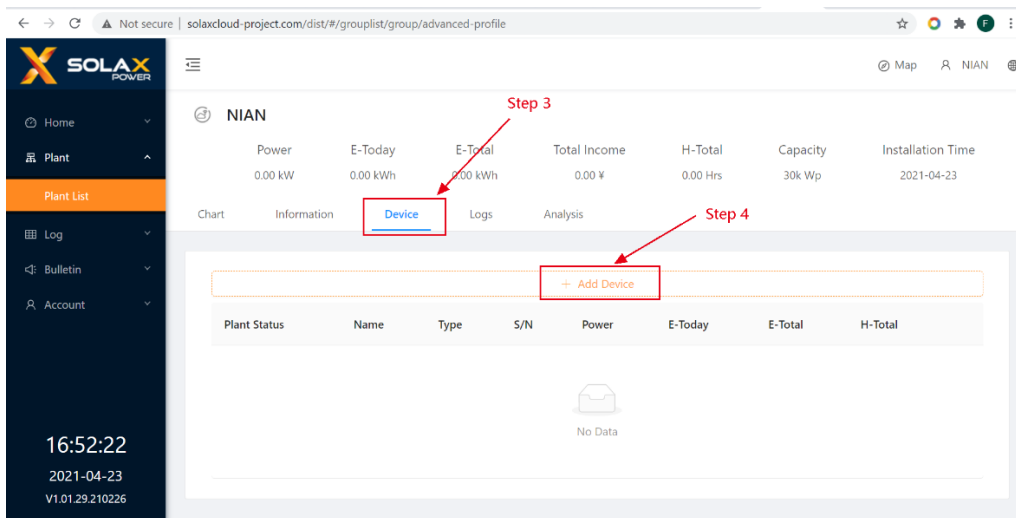
- **Step 9:** Click “Information”, and add your Register SN to “Datalogger SN”, see below picture;



- **Step 10:** Please add your “Register SN” to the blank, and click “OK”, see below picture;



- **Step 11:** Click “Device”, and click “Add Device” to add your inverter SN, see below picture;



❖ Configure your V1000+ as Datalogger or with Powerlimit function;

If you just want to monitoring online data, and don't need to limit power that exported to grid, then you can only install V1000+ as a datalogger;

However, if you not only want to monitoring online data, but also need to limit power that exported to grid (for example, in some Countries, there is mandatory requirement that 0 injection), then you need to install V1000+, and a power meter;

➤ V1000+ as a Datalogger (parallel max inverters is 40pcs)

1. If you want to connect inverters to V1000+ RS485-2 port as well, you need to set up V1000+, RS485-2 port to "Inverter" mode first; then you can use it;

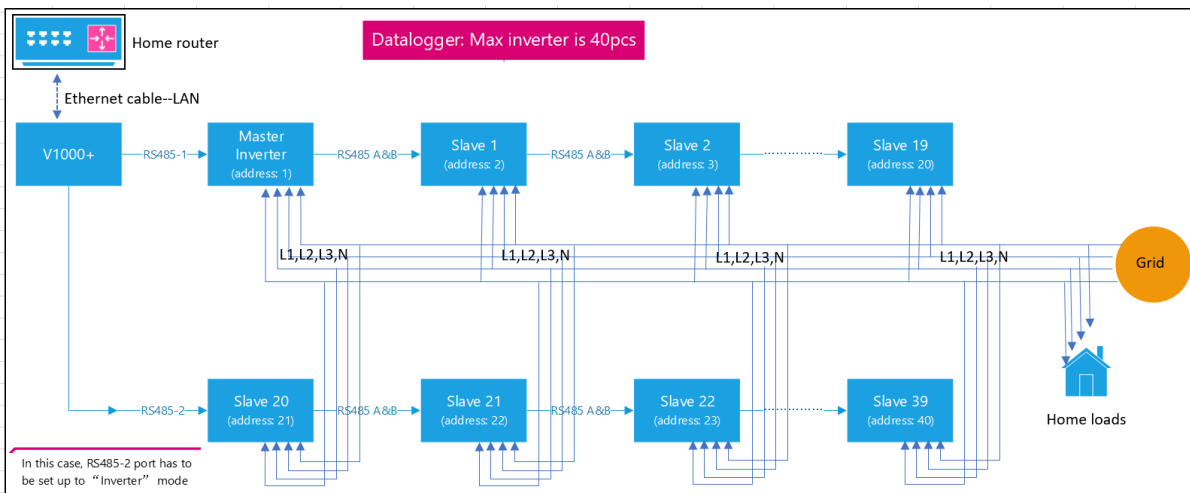
5.12 RS485-2 Configuration

The RS485-2 port is a multi-function port, which can be configured as:

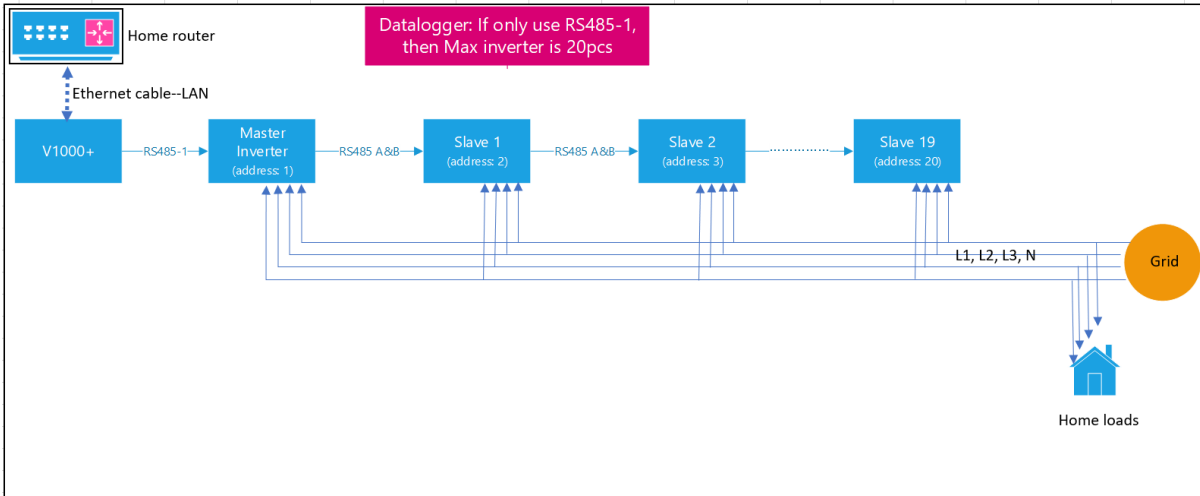
RS485-2 Configuration :

Digital Meter	ave
Inverter	
Digital Meter	
Device	

2. Installation diagram will be:



3. You can also only use RS485-1 port as well, if total inverters number less than 20pcs; Installation diagram will be:

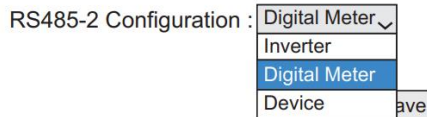


➤ **V1000+ as a Powerlimit (parallel max inverters is 20pcs)**

1. If you need to control power that export to grid (for example, you just want max power exported to grid is 6kw, or 0 injection), then you need to set up RS-485-2 port to “**Digital Meter**” mode, and install digital meter to RS485-2;

5.12 RS485-2 Configuration

The RS485-2 port is a multi-function port, which can be configured as:



2. The V1000+ supports for the following meters:

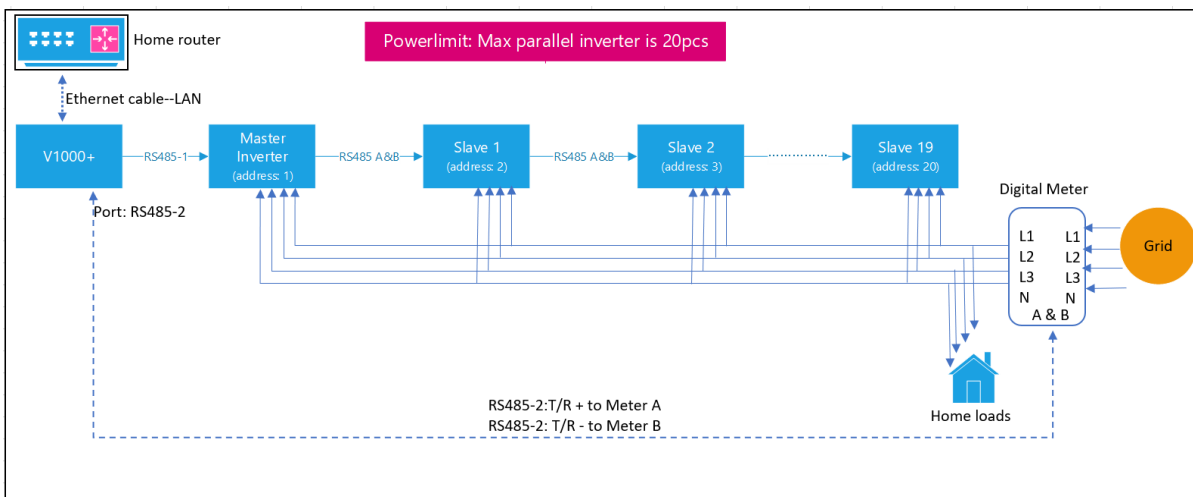
No.	Vendor	Meter type	Protocol	Connection
1	Lovato	DMG210, three phase meter	MODBUS-RTU	RS485
2	Gavazzi	ET340, three phase meter		
3	Gavazzi	ET112, single phase meter		
4	CHINT	DTSU666, three phase meter		

3. Setup Power Limit function

- First, enable power limit function;
- Second, set digital meter modbus address to what your meter address is (you need to check address of your digital meter in user manual or ask meter suppliers);
- Third, set meter type;
- Fourth, set meter power direction (power that supplied from grid is positive);
- Fifth, set meter position (if your installation like diagram in this manual, then you need to set: Meter on Grid);
- Sixth, set Maximum power feed-in to grid if needed (if requires 0 injection, then you need to set to 0);
- Last, click “**Save**” button when you finished;

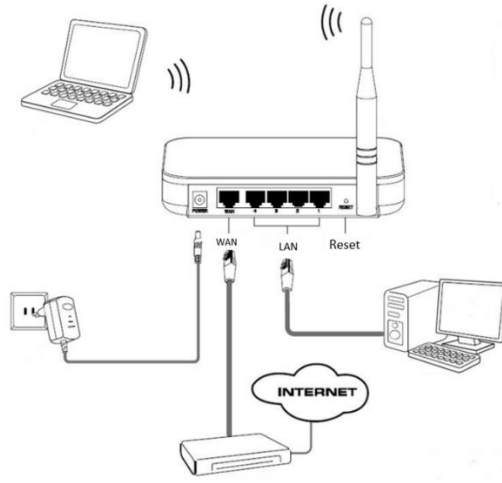
Function	Parameter
Power limit function	<input type="text" value="Disable"/>
Digital meter modbus address	<input type="text" value="1"/>
Digital meter type	<input type="text" value="Unknown"/>
Digital meter power direction	<input type="text" value="Positive"/>
Digital meter position	<input type="text" value="Meter on Grid"/>
Maximun feed-in grid power(w)	<input type="text" value="0"/>

4. Installation diagram will be:



❖ How to change or check your settings in future (Via Website);

As you know, different devices may be connected to your home router, like computer, TV, or wireless devices, like phone or iPads. V1000+ as one of those devices connected to router as well. Home router will assign a unique IP address to each device that is connected. Now you need to find out what IP address of V1000+ has been assigned by router, then you can do further operations.



Step 1: Check your home router Default IP address, which you can find at the back side of home router, see below one example:

Back view



The back side of your router has the following switches and connections:

1. **Power Switch.** Turns your router on or off.
2. **LAN Network Ports.** Connects to your devices using network cables (Ethernet cables).
3. **Internet port (or WAN Network port).** Connects to the modem using the provided Ethernet cable.
4. **Power Input.** Connects to the provided power adapter.

Label

The label is located on the back of your router. It contains important information that you will need to set-up your router, such as your SSID (Network Name), Network Key (Password), Router login Username and Password, as well as your MAC address.

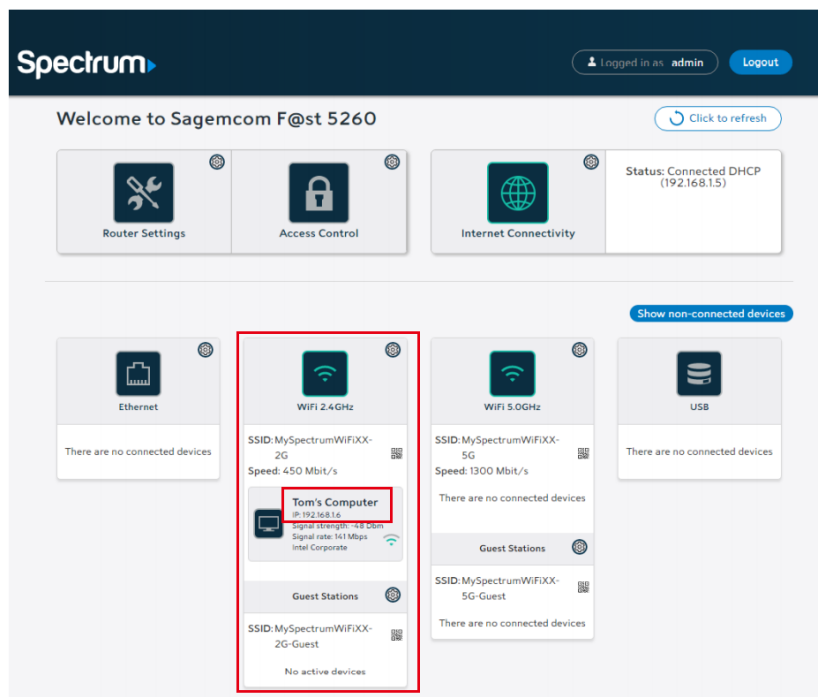


Step 2: Open your web browser, and then go to <http://192.168.1.1> (this is an example, please check your own home router device);

Step 3: Enter the login username and password listed on the back side of router (if you had already changed in past, then login with it); Default Username & Password is:

- ✓ Username: admin
- ✓ Password: admin

Step 4: Your router's home page should now appear, and which you may can find all devices that are connected to your router (take the below picture as an example);



Step 5: Find the V1000+ device, and check its IP address assigned by router (take the below picture as an example);

The screenshot shows the '状态' (Status) page of a V1000+ device. The page includes a navigation menu with '状态', '网络', '安全', '管理', and '帮助'. Below the menu, there are links for '设备信息', '网络侧信息', '用户侧信息', '宽带语音信息', and '远程管理状态'. The main content area displays '动态IP地址分配信息' (Dynamic IP Address Assignment Information) with a table showing the IP address 192.168.1.26 and MAC address 0c:6e:4f:00:50:be. A red arrow points to the IP address with the text 'V1000 IP Address assigned by router'. Below this, there is a table for '以太网接口状态信息' (Ethernet Interface Status Information) showing details for ports 网口1, 网口2, 网口3, and 网口4.

端口号	状态			接收		发送	
	模式	速率	连接	字节数	帧数	字节数	帧数
网口1	全双工	100M	已连接设备	2054978095	14822696	3593493126	33711069
网口2	--	--	未连接设备	0	0	6859641	47001
网口3	--	--	未连接设备	0	0	6859641	47001
网口4	--	--	未连接设备	0	0	6859641	47001

Step 6: Open your browser, and go to 192.168.1.26, you would get the below page:

The screenshot shows the V1000 Plus web interface. The browser address bar displays '192.168.1.26/index_setting.php'. The page features a navigation menu with 'Settings', 'Logs', 'List', and 'Main'. On the left, there are power generation statistics: 'Now 0 kW', 'Today 0 kWh', 'Total 0 kWh', and 'kwh/kwp 0'. Below this, there is a 'SENSORS' section showing 'Irradiance 0 w/m²' and 'Thermometer -40 °C'. On the right, there is a 'Logger Info.' table with various system parameters and their values.

Logger Info.	V1000 Plus	Date & Time	2021-5-3 7:44:29
IP Address	192.168.1.26	Language	English
Server Address	www.solaxcloud-project.com	Administration	admin
Irradiance	0w/m²	RS485-1 Search Starting Address	1
Solar Cell Temperature	-40°C	RS485-2 Search Starting Address	21
RS485-2 Configuration	Device	Power Limit	Disable
Grid Configuration	Edit	Reactive Power control	Edit
Active Power Control	Edit	Digital Meter	Measurement Value

then you can do some changes to your settings, or check your settings, or check your Register SN as well via this process.

❖ How to add or revise Register SN to your account;

If you had already created your account, but not added Register SN yet, then you need to add this Register SN to your account;

If you had already added but it was wrong SN (putted Package SN), then you need to delete the original SN, and add correct Register SN to your plant; See below details,

- **Step 1:** Login your monitoring account, and find your “Plant” in “Plant List” that you want to add or revise, see below picture,

The screenshot shows the SOLAX POWER monitoring dashboard. The left sidebar has a menu with 'Plant List' highlighted. The main content area shows 'Plant Status' with icons for Normal (0), Fault (0), Standby (0), and Offline (1). Below this is a 'Plant List' table with a search bar and filters. A red box highlights the 'NIAN' plant name, and a red arrow points to it. A red text box above the list says 'Click plant name that you want to add or revise Register SN'.

- **Step 2:** Click “Information” page, and adding Register SN, see below picture,

The screenshot shows the SOLAX POWER monitoring dashboard for the 'NIAN' plant. The left sidebar has a menu with 'Information' highlighted. The main content area shows the 'Information' page for the plant. A red box highlights the 'Information' tab, and a red arrow points to it. A red text box below the 'Datalogger S/N' field says 'Adding new Register SN by clicking +'.

If you are going to change or revise Register SN, then refer to below page,

solaxcloud-project.com/dist/#/grouplist/group/advanced-profile

SOLAX POWER

Home

Plant

Plant List

Log

Bulletin

Account

11:48:07

2021-04-25

V1.01.29.210226

NIAN

Output Power	Grid Power	Consumption Power	Capacity	Installation Time
0.00 kW	0.00 kWh	0.00 kWh	30k Wp	2021-04-23

Chart

Information

Device

Logs

Analysis

Address: beijing, China

Installation Time: 2021-04-23

Capacity: 30kWp

Input Power	CO2	Tree Planting	City Temperature	Relative Yield	Weather
0W	0t	0	6.7°C	0	

Radiation	Cell Temperature	Datalogger S/N
0w/m ²	0°C	205[REDACTED]

If you added wrong SN, then need to delete it, and adding correct Register SN;

If you still have questions, please feel free to contact with Solax service team at seevice.eu@solaxpower.com