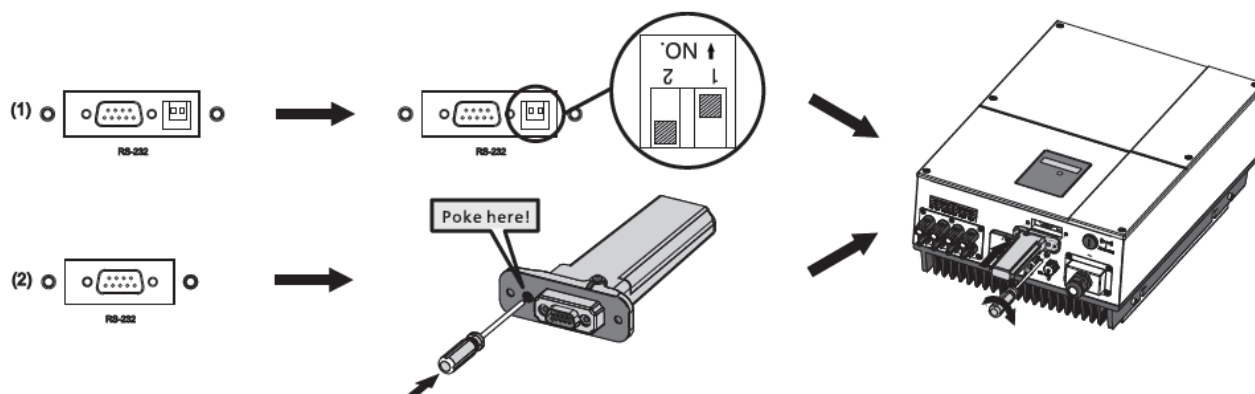


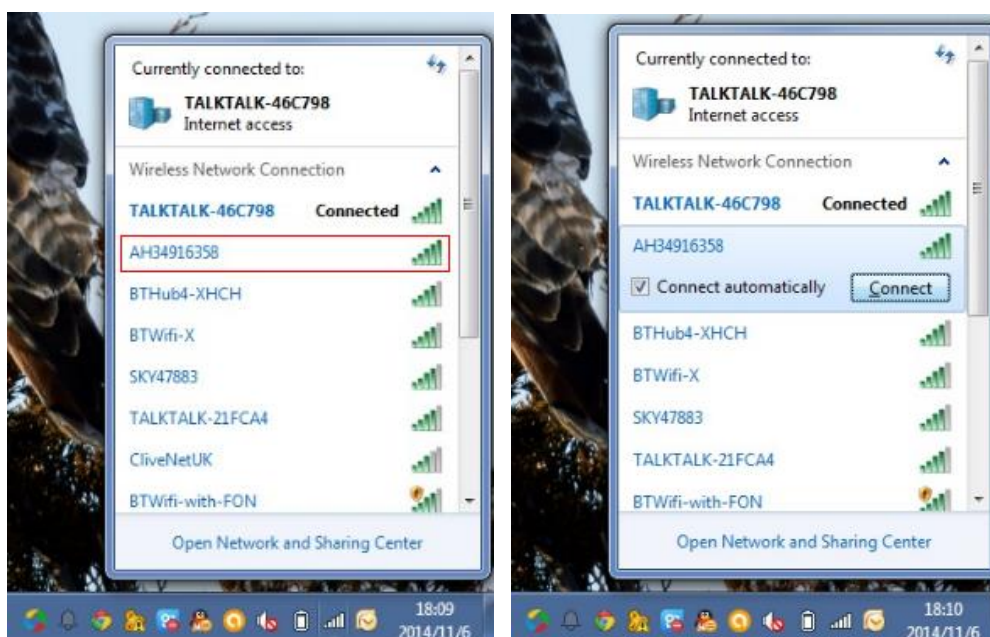
WIFI Module setup guide

How to set up the Wifi dongle?

1. Plug Wifi module to the RS232 port of the inverter. If the RS232 port has DIP switch, DIP1 should be set to 1;



2. Connect to the wireless network emitted by the Wifi module using your computer, the network name/SSID is the serial number of the Wifi dongle, default password is 12345678.
 - a. Click on the signal icon on desktop of your computer and click the SSID of the Wifi dongle(in red), then click the **“Connect”** button;



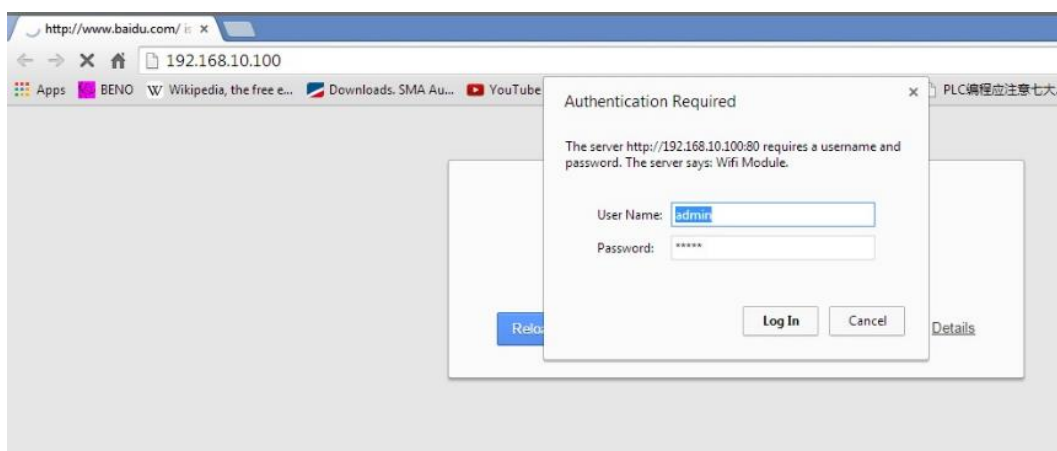
- b. type in the default password(12345678) of the wireless network of the Wifi dongle, and click **“OK”**;

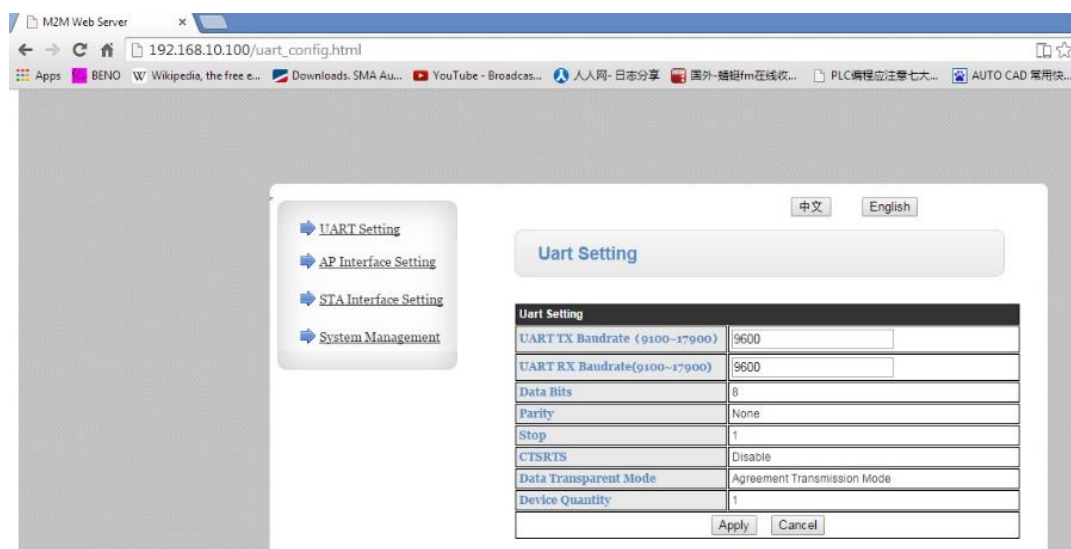


c. Then your laptop will be successfully connected to the Wifi dongle.



3. After the connection is successfully established, open the web browser on your computer and type **192.168.10.100** in the address bar, then you will be prompted to enter user name and password to get into the setting interface of the Wifi module, both of them are “**admin**”. After that you will enter the setting interface.





4. Check the connection between Wifi dongle and your inverter.

Switch to “UART Setting” page, check the parameters “**Device Quantity**” under “UART Setting” tab. If the communication between the inverter and Wifi dongle is Okay, the value will be 1, but if the value is 0, please check the connection between the inverter and Wifi module;



5. Then we will set the communication between the Wifi module and your wireless router.

- a. Switch to “STA Interface Setting” page, Click the “**Search**” button under “STA Interface Parameters” Tab,

➔ [UART Setting](#)

➔ [AP Interface Setting](#)

➔ [STA Interface Setting](#)

➔ [System Management](#)

中文 English

STA Interface Setting

STA Interface Parameters	
AP's SSID	<input type="text"/> Search Clear
Security Mode	OPEN ▼
Encryption Type	NONE ▼
Connection State	No Setting
Apply Cancel	

DHCP Mode	
MAC	AC:CF:23:06:44:D1
WAN Connection Type	DHCP(Auto config) ▼
IP Address	0.0.0.0
Subnet Mask	0.0.0.0
Default Gateway	0.0.0.0
Apply Cancel	

Network Setting	
Server Address(IP Address or Domain Name)	server.growatt.com
Server Connection State	Disconnected
Apply Cancel	

- b. a dialog window will pop up showing all the wireless network nearby, select the wireless network of your home router, then click “Apply”.

M2M Web Server - Google Chrome

192.168.10.100/site_survey.html

Site Survey

Note: In a general way, the number of clients(such as PC, mobile phone, Wi-Fi Module and etc.)linked to the same wireless router should be less than 10.

SSID	BSSID	RSSI	Channel	Encryption	Authentication	Network Type
BTHub3-G6P9	00:03:d8:0c:bd:82	0%	1	TKIP	WPA2PSK	Infrastructure
BTHub3-RFP2	00:f2:01:50:7b:1a	15%	1	TKIP	WPA2PSK	Infrastructure
TALKTALK-46C798	d0:2d:b3:46:c7:a0	100%	1	TKIP	WPA2PSK	Infrastructure
BTWifi-with-FON	42:f2:01:50:7b:1a	15%	1	NONE	OPEN	Infrastructure
BTWifi-X	22:03:d8:0c:bd:82	5%	1	TKIP	WPA2PSK	Infrastructure
BTWifi-X	62:f2:01:50:7b:1a	5%	1	TKIP	WPA2PSK	Infrastructure
BTWifi-with-FON	02:03:d8:0c:bd:82	5%	1	NONE	OPEN	Infrastructure
CliveNetUK	bc:ae:c5:c3:72:b9	15%	4	AES	WPA2PSK	Infrastructure
SKY47883	7c:4c:a5:e6:12:75	50%	6	AES	WPA2PSK	Infrastructure
NaszaChalupa	00:26:b0:fe:09:ed	5%	6	AES	WPA2PSK	Infrastructure
BrightBox-ccsre3	50:7e:5d:02:f0:19	0%	11	TKIP	WPA2PSK	Infrastructure
BTHub3-TSSQ	00:fe:f4:6a:15:b8	15%	11	TKIP	WPA2PSK	Infrastructure
BTWifi-with-FON	42:f2:01:25:a9:18	5%	11	NONE	OPEN	Infrastructure
BTWifi-with-FON	02:fe:f4:6a:15:b8	20%	11	NONE	OPEN	Infrastructure
BTWifi-X	62:f2:01:25:a9:18	5%	11	TKIP	WPA2PSK	Infrastructure
BTHub3-QQC2	80:b6:86:6b:24:7a	0%	11	TKIP	WPA2PSK	Infrastructure
BTWifi-X	22:fe:f4:6a:15:b8	0%	11	TKIP	WPA2PSK	Infrastructure

Apply Refresh

M2M Web Server - Google Chrome

https://192.168.10.100/site_survey.html

Site Survey

Note: In a general way, the number of clients(such as PC, mobile phone, Wi-Fi Module and etc.)linked to the same wireless router should be less than 10.

SSID	BSSID	RSSI	Channel	Encryption	Authentication	Network Type
BTHub3-G6P9	00:03:d8:0c:bd:82	0%	1	TKIP	WPA2PSK	Infrastructure
BTHub3-RFP2	00:f2:01:50:7b:1a	15%	1	TKIP	WPA2PSK	Infrastructure
TALKTALK-46C798	d0:2d:b3:46:c7:a0	100%	1	TKIP	WPA2PSK	Infrastructure
BTWifi-with-FON	42:f2:01:50:7b:1a	15%	1	NONE	OPEN	Infrastructure
BTWifi-X	22:03:d8:0c:bd:82	5%	1	TKIP	WPA2PSK	Infrastructure
BTWifi-X	62:f2:01:50:7b:1a	5%	1	TKIP	WPA2PSK	Infrastructure
BTWifi-with-FON	02:03:d8:0c:bd:82	5%	1	NONE	OPEN	Infrastructure
CliveNetUK	bc:ae:c5:c3:72:b9	15%	4	AES	WPA2PSK	Infrastructure
SKY47883	7c:4c:a5:e6:12:75	50%	6	AES	WPA2PSK	Infrastructure
NaszaChalupa	00:26:b0:fe:09:ed	5%	6	AES	WPA2PSK	Infrastructure
BrightBox-ccsre3	50:7e:5d:02:f0:19	0%	11	TKIP	WPA2PSK	Infrastructure
BTHub3-TSSQ	00:fe:f4:6a:15:b8	15%	11	TKIP	WPA2PSK	Infrastructure
BTWifi-with-FON	42:f2:01:25:a9:18	5%	11	NONE	OPEN	Infrastructure
BTWifi-with-FON	02:fe:f4:6a:15:b8	20%	11	NONE	OPEN	Infrastructure
BTWifi-X	62:f2:01:25:a9:18	5%	11	TKIP	WPA2PSK	Infrastructure
BTHub3-QQC2	80:b6:86:6b:24:7a	0%	11	TKIP	WPA2PSK	Infrastructure
BTWifi-X	22:fe:f4:6a:15:b8	0%	11	TKIP	WPA2PSK	Infrastructure

Apply Refresh

- c. Enter the WIFI password of your home wireless network in the “Pass Phrase” field, click “Apply”;

[中文](#)
[English](#)

[UART Setting](#)
[AP Interface Setting](#)
[STA Interface Setting](#)
[System Management](#)

STA Interface Setting

STA Interface Parameters	
AP's SSID	TALKTALK-46C798 Search Clear
Security Mode	WPA2PSK ▼
Encryption Type	TKIP ▼
Pass Phrase(8~32 Characters)	CJL
Connection State	No Setting
Apply Cancel	

DHCP Mode	
MAC	AC:CF:23:06:44:D1
WAN Connection Type	DHCP(Auto config) ▼
IP Address	0.0.0.0
Subnet Mask	0.0.0.0
Default Gateway	0.0.0.0
Apply Cancel	

Network Setting	
Server Address(IP Address or Domain Name)	server.growatt.com
Server Connection State	Disconnected
Apply Cancel	

- d. You'll be prompted to restart the Wifi dongle to make the setting take effect, click **"Restart Immediately"**;

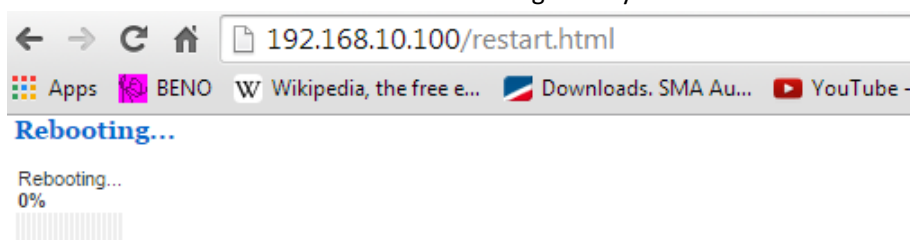
[中文](#)
[English](#)

[UART Setting](#)
[AP Interface Setting](#)
[STA Interface Setting](#)
[System Management](#)

Set Successfully, Restart to use new setting

[Restart Immediately](#)

- e. There will be a progress bar showing the restarting progress. If the progress bar just stands still and doesn't move, please wait about 1 minute, then reload the page, switch to "STA Setting" page to check whether the connection between the Wifi dongle and your wireless router has been established;



- f. If the connection to router is Okay, the Connection State will become “**connected**”. And the Wifi dongle will connect to our Shine Server automatically(status shown in red frame).

▶ [UART Setting](#)

▶ [AP Interface Setting](#)

▶ [STA Interface Setting](#)

▶ [System Management](#)

中文 English

STA Interface Setting

STA Interface Parameters	
AP's SSID	TALKTALK-46C798 Search Clear
Security Mode	WPA2PSK ▼
Encryption Type	TKIP ▼
Pass Phrase(8-32 Characters)	CJ
Connection State	Connected
Apply Cancel	

DHCP Mode	
MAC	AC:CF:23:06:44:D1
WAN Connection Type	DHCP(Auto config) ▼
IP Address	192.168.1.10
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
Apply Cancel	

Network Setting	
Server Address(IP Address or Domain Name)	server.growatt.com
Server Connection State	Connected
Apply Cancel	

For Step a-f, You can have a short cut road and use an android mobile app (ShineSmart.apk) to setup the WIFI dongle.

Run the software on an Android phone, it will search and connect to the WIFI dongle automatically in the “Select a method to search Wi-Fi Module” section. Then you just need to click “Select” in the next section to search and select your home WIFI, enter the password and click “Setting”, most of the time it will show “setting successful” at the bottom. Then the setup of connection to router is done, and you can use laptop computer to log in dongle (<http://192.168.10.100>) to obtain the ‘Check Code’. Finally, You’ll just need to create an account on the server portal.

Growatt ShineWiFi 1.0

Select a method to search Wi-Fi Module:

☒ Search automatically

☐ Search smartly

☐ Open system WLAN setting interface

Obtaining IP address...

Select a router and input the password:

SSID: Select...

Password: Display

modify Wi-Fi Module password:

new password: Display

Setting

6. Then sign up an account on Shine Server, and register your Wifi module on it.
 - a. Switch to “System Management” tab, record **Serial Number** and **Check Code** of the Wifi module for Shine Server account registration;

[中文](#)
[English](#)

[UART Setting](#)
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[STA Interface Setting](#)
[System Management](#)

System Management

Product Information	
Version	2.0
Serial Number	AH34916358
Check Code	4C111

Production Setting	
Data Transfer Interval	5Minutes
Monitor Mode	Single Mode
Time Zone	GMT+8 ▼
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>	

Administrator Settings	
Account	admin
Password	admin
<input type="button" value="Apply"/> <input type="button" value="Cancel"/>	

- b. Enter “server.growatt.com” in your web browser, and click “**Register**” in Shine Server portal;

The screenshot shows the Growatt ShineServer 2.5.0.6 web portal. In the 'User Login' section, the 'Register' button is highlighted with a red box. The main content area features a world map and various system statistics. The footer indicates the copyright is © 2012 GROWATT NEW ENERGY TECHNOLOGY CO.,LTD.

- c. Enter all the required information in the register window, then click “**Register**”;

Register

User name: cnDarcy

Password: *****

Password repeat: *****

Email: dustin.du@ginverter.com

Company name: Growatt New Energy Comany

Tel phone: +8675527471942

Data logger SN: AH34916358

Data logger verification code: 4C111

Time zone: GMT +0

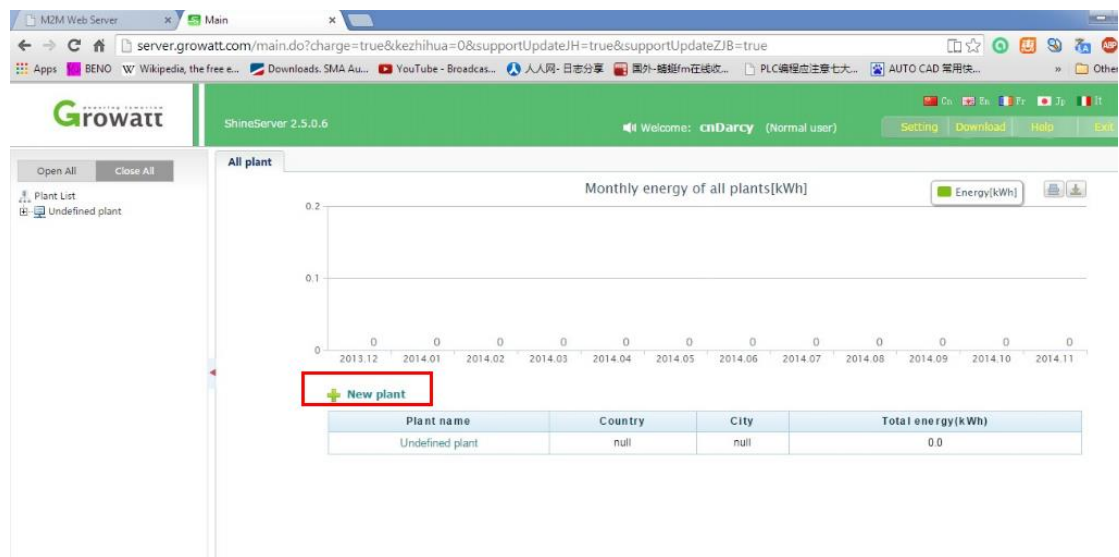
Language: English

Validate code: LLAG

☒ I have read and agree [《Terms of Use》](#)

[Register](#) [Back Login](#)

- d. Then it'll jump into the home page of Shine Server, click **"New plant"** in the middle of the window;



- e. Enter the plant information in the "New plant" page, click the serial number(in red frame) of the Wifi dongle at the bottom, then click the blue arrow to move it to the **"selected"** area, click **"Save"**;
- Note: The three pictures below are from the same page

server.growatt.com/main.do?charge=true&kezhihua=0&supportUpdateJH=true&supportUpdateZJB=true

ShineServer 2.5.0.6 Welcome: cnDarcy (Normal user)

New plant

1. Set installation info

Plant name: *
Installation date: *
System power(Wp): *
Designer: *

2. Set location

Country: *
City: *
Time zone: GMT +0 *
East longitude: *
North latitude: *

3. Set income formula(Set 1kwh as the conversion standard)

Capital income: 1.20 RMB(¥)
Standard coal saved(kg): 0.400
CO₂ emission reduced(kg): 0.997
SO₂ emission reduced(kg): 0.030

4. Set plant profile

Images of plant: Choose File No file chosen

5. Select data logger

Unselected Selected

ShineServer 2.5.0.6 Welcome: cnDarcy (Normal user) Setting Download

New plant

1. Set installation info

Installation date: 2014-11-18 *
System power(Wp): 2000 *
Designer: Dustin *

2. Set location

Country: UK
City: Oxford
Time zone: GMT +0 *
East longitude: *
North latitude: *

3. Set income formula(Set 1kwh as the conversion standard)

Capital income: 0.15 GBP(£)
Standard coal saved(kg): 0.400
CO₂ emission reduced(kg): 0.997
SO₂ emission reduced(kg): 0.030

4. Set plant profile

Images of plant: Choose File No file chosen

5. Select data logger

Unselected Selected

AH34916358

Save

Copyright © 2012 GROWATT NEW ENERGY TECHNOLOGY CO.,LTD Resolution: 1024x768

ShineServer 2.5.0.6 Welcome: cnDarcy (Normal user) Setting Download

New plant

1. Set installation info

Installation date: 2014-11-18 *
System power(Wp): 2000 *
Designer: Dustin *

2. Set location

Country: UK
City: Oxford
Time zone: GMT +0 *
East longitude: *
North latitude: *

3. Set income formula(Set 1kwh as the conversion standard)

Capital income: 0.15 GBP(£)
Standard coal saved(kg): 0.400
CO₂ emission reduced(kg): 0.997
SO₂ emission reduced(kg): 0.030

4. Set plant profile

Images of plant: Choose File No file chosen

5. Select data logger

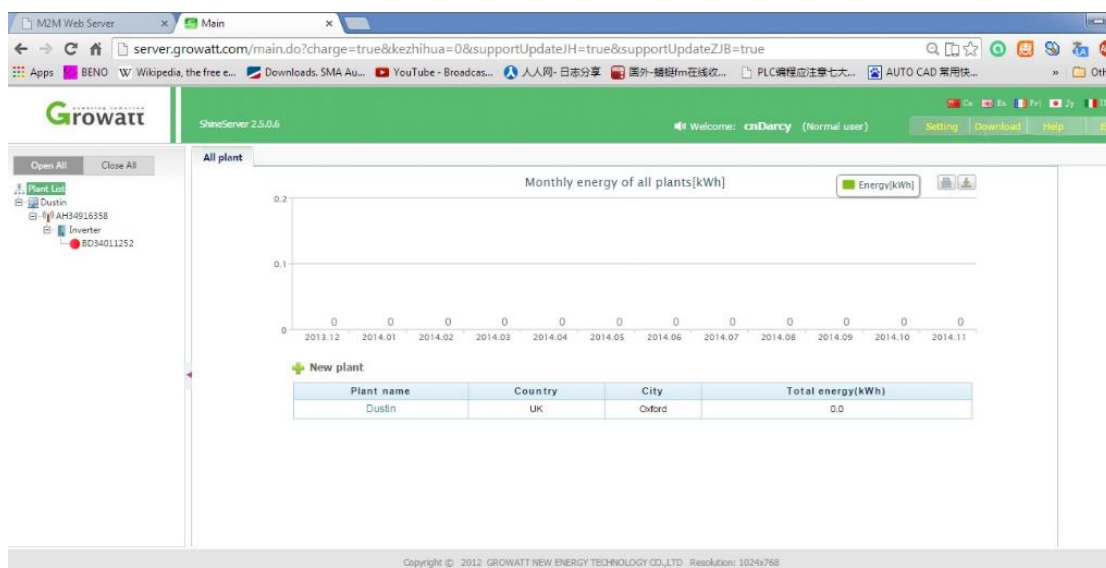
Unselected Selected

AH34916358

Save

Copyright © 2012 GROWATT NEW ENERGY TECHNOLOGY CO.,LTD Resolution: 1024x768

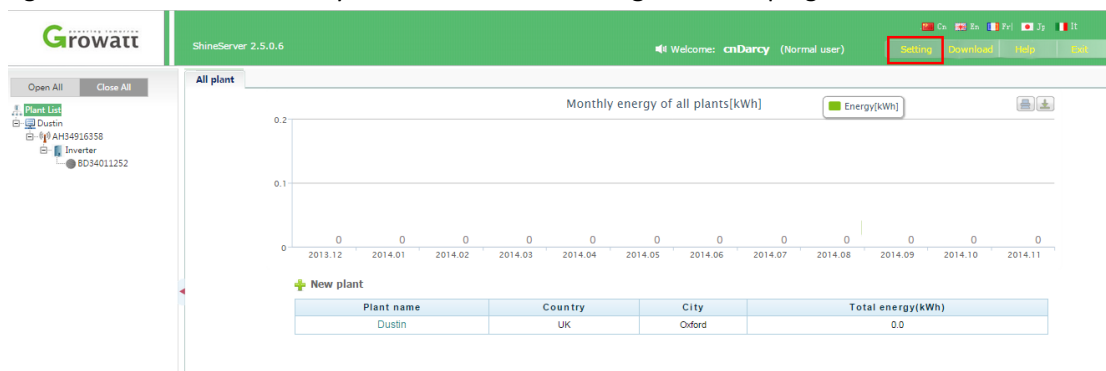
7. After that, all the setting is done. The data will be uploaded to the Shine Server every 5 minutes.



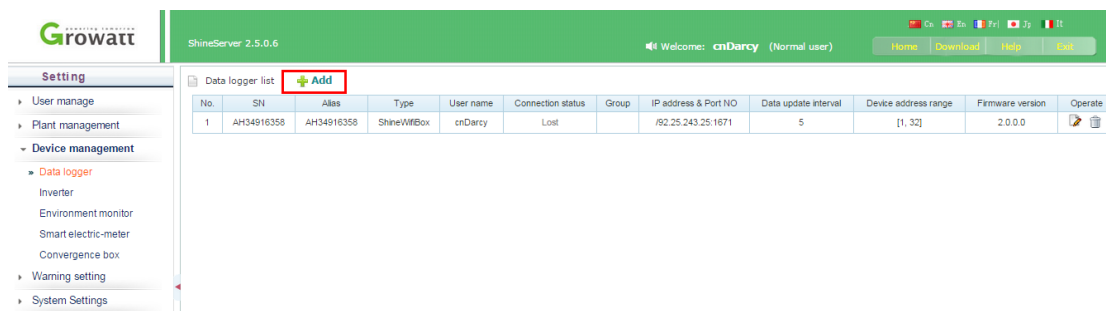
How to add WIFI dongle to your existing plant?

If you have more than one Wifi dongles and you want to put them all in one account and plant:

- Sign in the Shine Server with your account, click **"Setting"** on the top right hand side of the home page;



- Click "Device management" tab in the left column and select **"Data logger"**, then click **"Add"** on the top left hand side;

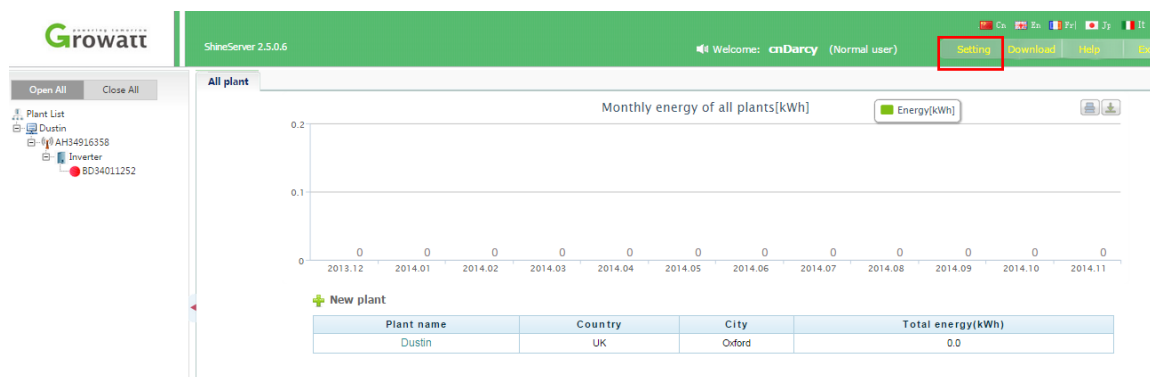


- Enter the serial number and Check code of the Wifi dongle, click **"Save"**. Then all the setting is complete.

Data logger registration

Data logger SN:	<input type="text"/>	*
Data logger security code:	<input type="text"/>	*
Plant for the data logger:	Dustin ▼	
<input type="button" value="Save"/> <input type="button" value="Cancel"/>		

How to edit Plant information?



Growatt ShineServer 2.5.0.6 Welcome: cnDarcy (Normal user) [Home](#) [Download](#) [Help](#)

Setting

- User manage
- Plant management
 - Plant information list 1**
 - Device management
 - Warning setting
 - System Settings

New plant

No.	Plant name	Owner user	Browse account	Country	City	Total energy(kWh)	Operate
9399	Dustin	cnDarcy		UK	Oxford	0.0	<input type="button" value="Edit"/> <input type="button" value="Delete"/>

Growatt ShineServer 2.5.0.6 Welcome: cnDarcy (Normal user) [Home](#) [Download](#)

Setting

- User manage
- Plant management
 - Plant information list**
 - Device management
 - Warning setting
 - System Settings

Edit plant info

1.Set installation info

Plant name:	Dustin *
Installation date:	2014-11-18 *
System power(Wp):	2000 *
Designer:	Dustin *

2.Set location

Country:	UK
City:	Oxford
Time zone:	GMT +0 ▼
East longitude:	<input type="text"/> <input type="text"/> <input type="text"/>
North latitude:	<input type="text"/> <input type="text"/> <input type="text"/>

3.Set income formula(Set 1kwh as the conversion standard)

Capital income:	0.15	GBP(£) ▼
Standard coal saved(kg):	0.4	
CO ₂ emission reduced(kg):	0.997	
SO ₂ emission reduced(kg):	0.03	

4.Set plant profile

Images of plant: No file chosen

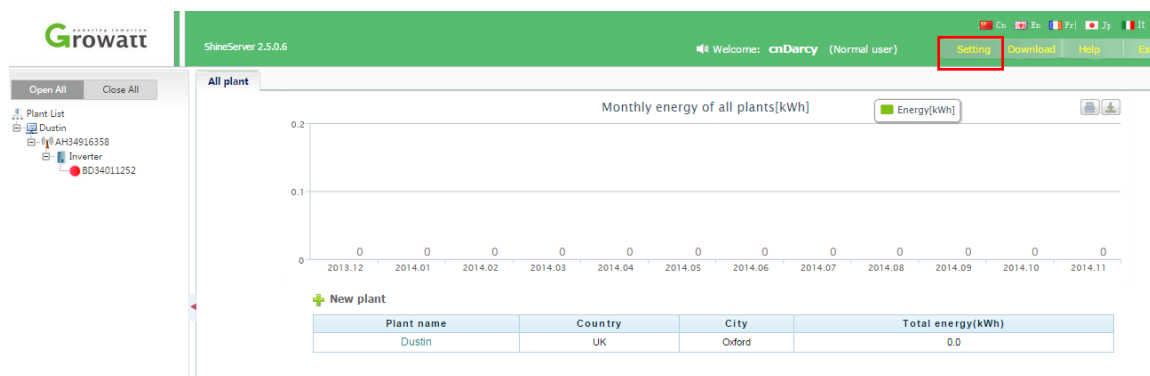
5.Select data logger

Unselected	Selected
	AH34916358

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How to delete Wifi module on Shine Server?

If you inadvertently set a wrong parameter or you just installed a new Wifi dongle to replace the old one, you'll need to know how to delete the Wifi dongle.



ShineServer 2.5.0.6

Welcome: cnDarcy (Normal user)

Home Download Help Exit

Setting

User manage

Plant management

Device management

Data logger 1

Inverter

Environment monitor

Smart electric-meter

Convergence box

Warning setting

System Settings

Data logger list + Add

No.	SN	Alias	Type	User name	Connection status	Group	IP address & Port NO	Data update interval	Device address range	Firmware version	Operate
1	AH34916358	AH34916358	ShineWifiBox	cnDarcy	Lost		/92.25.243.25:1671	5	[1, 32]	2.0.0.0	

ShineServer 2.5.0.6

Welcome: cnDarcy (Normal user)

Home Download Help Exit

Setting

User manage

Plant management

Device management

Data logger

Inverter

Environment monitor

Smart electric-meter

Convergence box

Warning setting

System Settings

Data logger list + Add

No.	SN	Alias	Type	User name	Connection status	Group	IP address & Port NO	Data update interval	Device address range	Firmware version	Operate
1	AH34916358	AH34916358	ShineWifiBox	cnDarcy	Lost		/92.25.243.25:1671	5	[1, 32]	2.0.0.0	

TheMessage

Delete this data logger?

Confirm Cancel

ShineServer 2.5.0.6

Welcome: cnDarcy (Normal user)

Home Download Help Exit

Setting

User manage

Plant management

Device management

Data logger

Inverter

Environment monitor

Smart electric-meter

Convergence box

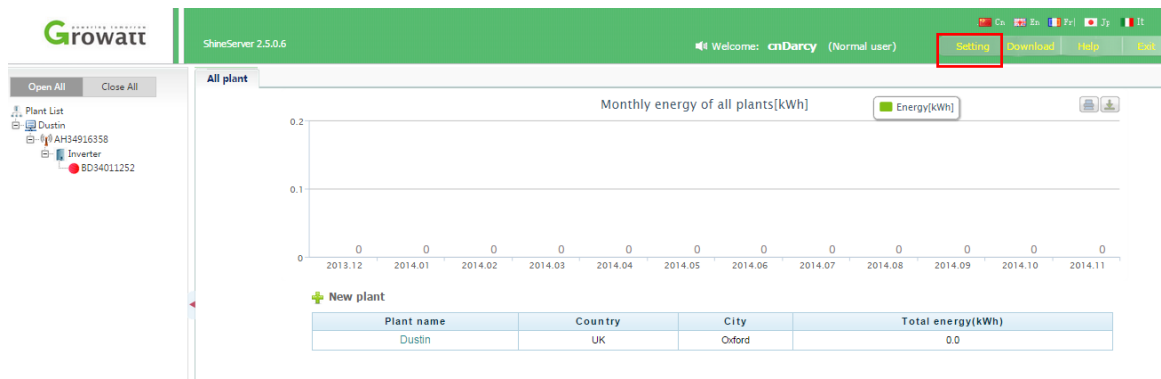
Warning setting

System Settings

Data logger list + Add

No.	SN	Alias	Type	User name	Connection status	Group	IP address & Port NO	Data update interval	Device address range	Firmware version	Operate
No Data!											

How to delete the Plant?



ShineServer 2.5.0.6

Welcome: cnDarcy (Normal user)

Home Download Help Exit

Setting

- User manage
- Plant management
 - Plant information list 1
- Device management
- Warning setting
- System Settings

New plant

No.	Plant name	Owner user	Browse account	Country	City	Total energy(kWh)	Operate
9148	Dustin	cnDarcy		UK	Oxford	0.0	2

ShineServer 2.5.0.6

Welcome: cnDarcy (Normal user)

Home Download Help Exit

Setting

- User manage
- Plant management
 - Plant information list
- Device management
- Warning setting
- System Settings

New plant

No.	Plant name	Owner user	Browse account	Country	City	Total energy(kWh)	Operate
9148	Dustin	cnDarcy		UK	Oxford	0.0	

TheMessage

Do you want to delete this plant?

Confirm Cancel

ShineServer 2.5.0.6

Welcome: cnDarcy (Normal user)

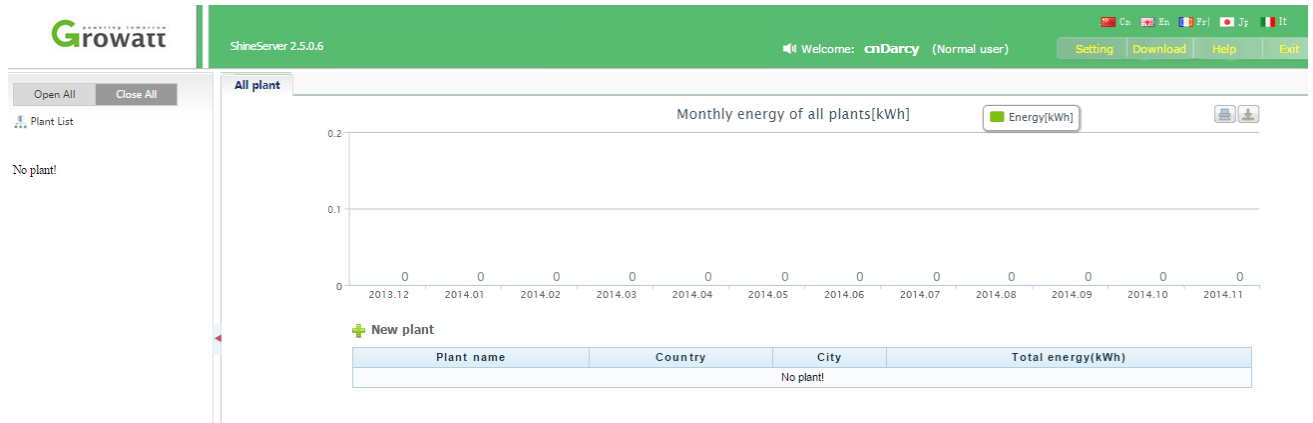
Home Download Help Exit

Setting

- User manage
- Plant management
 - Plant information list
- Device management
- Warning setting
- System Settings

New plant

No.	Plant name	Owner user	Browse account	Country	City	Total energy(kWh)	Operate
No plant!							



If there is any problem during the Wifi dongle setting, please contact your installer or Growatt(dustin.du@ginverter.com) for assistance.