

Luxpower Inverter Handbook

1. Account register and WiFi Configuration
2. Firmware remote update by Website
3. Firmware remote update by Installer
4. Guidance for Auto starting Generator
5. Typical Application Instruction LXP3-6K Hybrid
6. WiFi dongle connection
7. Luxpower view App guide(Hybrid)-for Distributor
8. Luxpower view App guide(Hybrid)-for End User

APP Name: Lux Power Monitor
Available in Google play / Apple APP store



Android APP



IOS APP

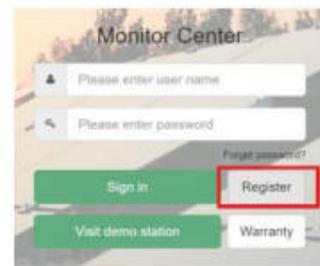
End user need to ask your installer to register a Monitor account for you. Or you can register by yourself, **remember to ask** your installer or distributor for their **customer code!** Installers and distributors require your upper-level distributor to register a Monitor account for you, you will get **your special customer code from them!**

When you register account for your customer, you can set a customer name for them.

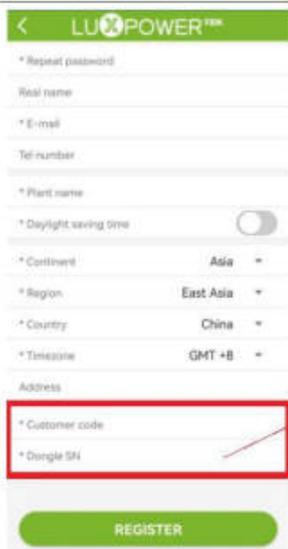
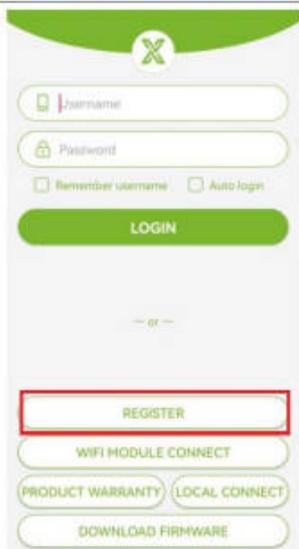
1. Register an account

Step 1. Register Monitor account for end user, please visit <http://server.luxpowertek.com>, or download the 'Lux Power Monitor' APP to do that.

If you are distributor or installer, please contact your upper-level distributor to get an account, or you can contact info@luxpowertek.com



Register end user account on the Web or APP



Step 2. Filling in all information truthfully

a. **Customer code:** it is the code of your distributor or installer, please contact them to get their customer code

b. **Dongle SN:** showed on the label of WIFI/WLAN shell as below



Step 3. Click REGISTER to submit

The Web register steps is same as you register in APP

2. WIFI configuration

You can connect your home wifi to the inverter through APP or Website

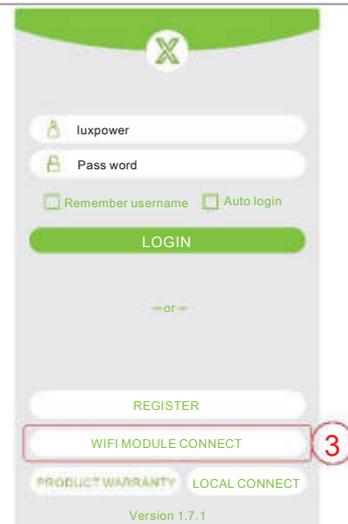
2.1 Use APP to configure WIFI

Step 1. Plug in the wifi module and Power on the inverter.



Step 3. Open the APP, click "WIFI MODULE CONNECT"

Step 2. Wait the INV LED becomes solid on, then use your phone to connect WIFI module's hotspot, generally it's named as dongle SN "BA****"



Step 4. Choose the wifi you want to connect in the HomeWiFi, and input the password



Step 5. Click "HomeWiFi Connect", then inverter will restart automatically, you will see three LED of WIFI module become solid on one by one.

Use Web to configure WiFi & Use APP for Local Monitor and Setting



Done

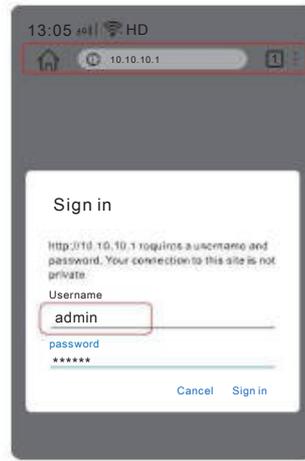
You can login your account to use monitor.

2.2 Use Web to configure WIFI

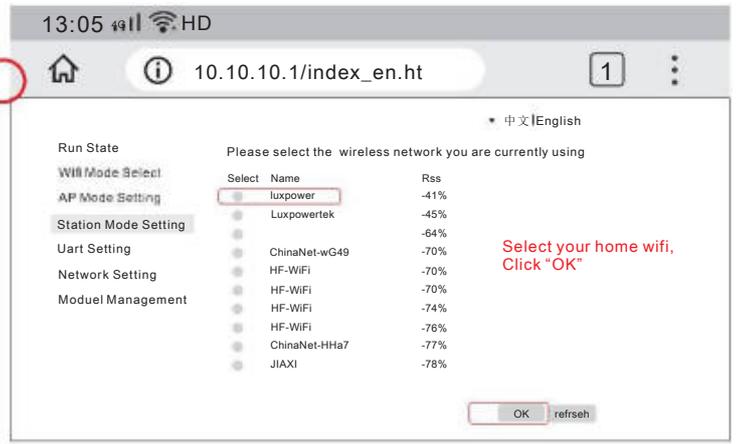
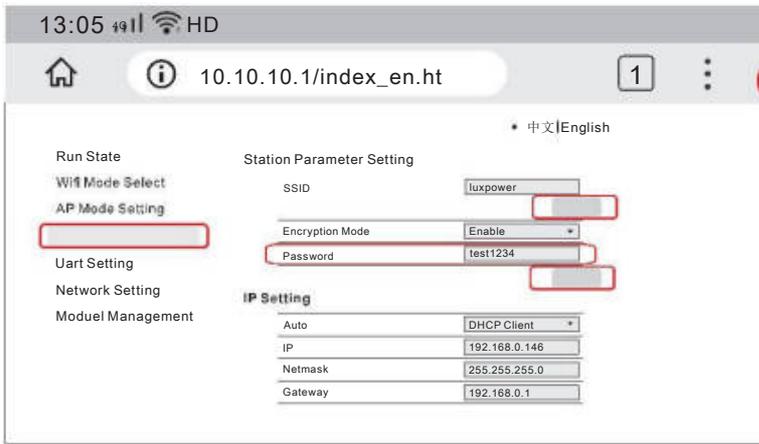
Step1. Power on the inverter, Wait the INV LED becomes solid on, then use your phone or laptop to connect WIFI module's hotspot, generally it's named as dongle SN"BA****"



Step2. Enter 10.10.10.1 in the browser. Both username and password are "admin" for dialog box. After log in, select English on the right side.



Step3. Go to the "Station Mode Setting" page. Click "Scan" to choose your home wifi in SSID program, input the password, and click "save".



Step4. After you save your home wifi setting, inverter will restart automatically, you will see three LED of WIFI module become solid on one by one, this will take some times, then you can login your account to use monitor.

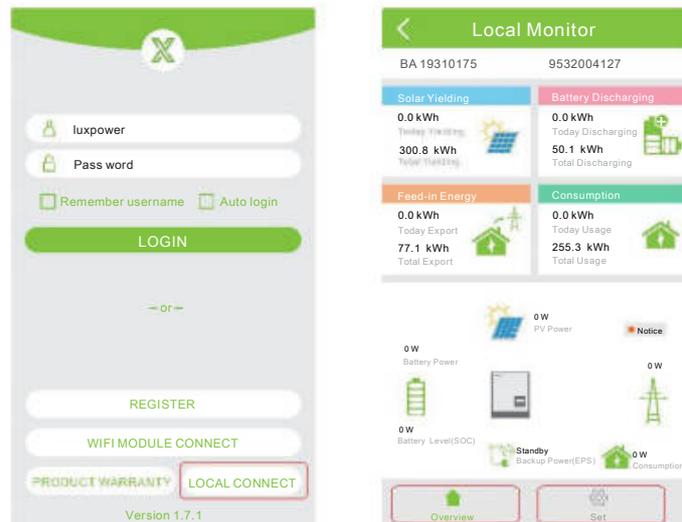
3. Use Lux Power Monitor for Local Monitor and Setting

If there is no wifi signal at the station, users can use "LOCAL CONNECT" function to monitor and setup the system

Step1. Power on the inverter, wait the INV LED becomes solid on, then use your phone to connect WIFI module's hotspot, generally it's named as dongle SN"BA****"

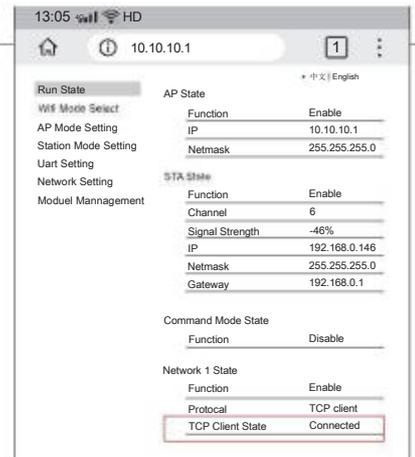
Step2. Open the Lux Power Monitor APP

Step3. Click "Local Connect", then you can monitor and set the system as below

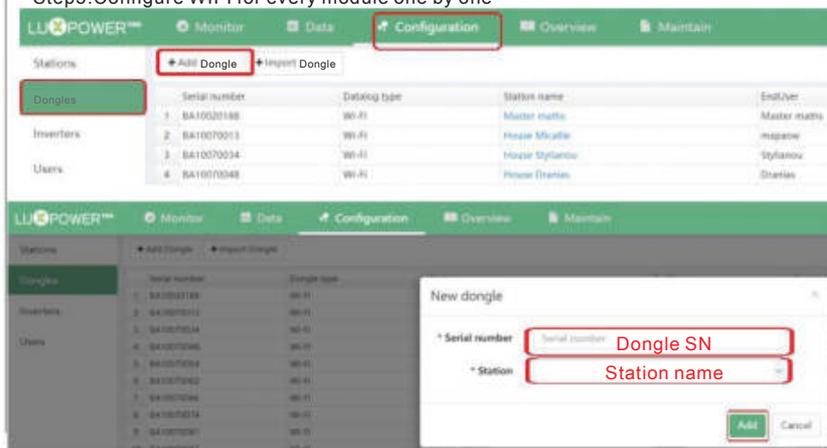


Q&A

Q: Why does the middle light of wifi module is flashing?
A: After set the right password of wifi, three lights should be solid on, if it is still flashing, please (1) Make sure you have set the right password and the wifi is good, you can use your mobile connect to wifi hotspot and visit website 10.10.10.1 to check, the login user name and password are both 'admin', the TCP client state should be 'connected' as show in the picture, otherwise check your wifi name and password.



(2) If you have more than 1 inverter and dongle in the system, please follow :
Step1. Register your account with one of dongles' SN and PIN
Step2. Login your account on the APP or Web
Step3. Add extra dongles' SN and PIN
Step4. Reconnect the dongle
Step5. Configure WIFI for every module one by one



2. Firmware remote update by Website

1. Distributors and installers are able to update firmware for inverters and BMS(support some brands) by Lux power website monitor system. You can use standard update to regular updates and if you have some special functions, please contact Lux power team for the firmware file first.

2. Login in Luxpower monitor system, go to maintain-->remote update

The screenshot shows the LuxPower website interface. The top navigation bar includes 'Monitor', 'Data', 'Configuration', 'Overview', and 'Maintain'. The 'Maintain' menu is highlighted with a red box. Below the navigation bar, there are sections for 'Remote Set', 'Batch Set', and 'Remote Update'. The 'Remote Update' section is highlighted with a red box. Below it is a table with columns for Serial number, Datalog, FW Code, Connect, and Action. The table contains four rows of data.

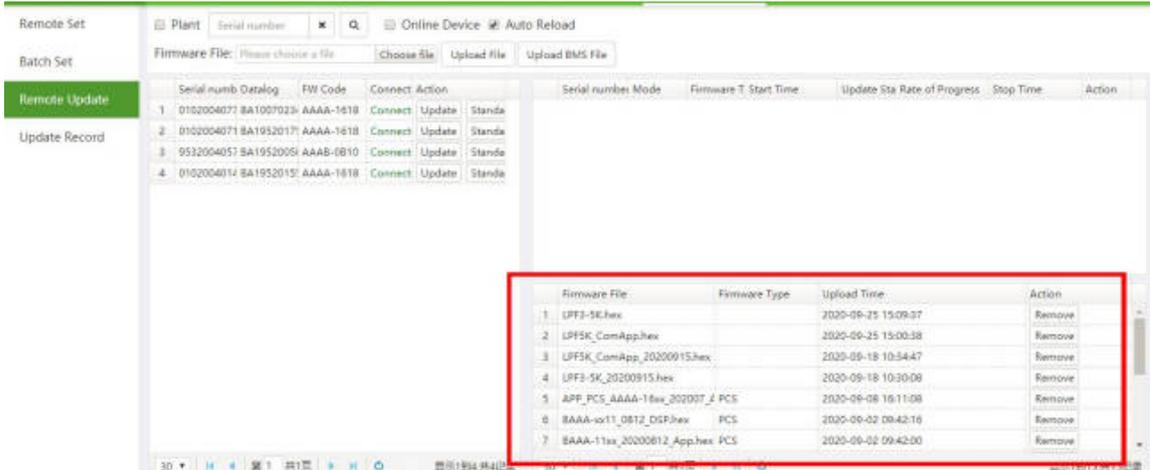
Serial numb	Datalog	FW Code	Connect	Action
1	0102004077	BA1007023	AAAA-1618	Connect Update Standa
2	0102004071	BA1952017	AAAA-1618	Connect Update Standa
3	9532004057	BA1952005	AAAB-0B10	Connect Update Standa
4	0102004014	BA1952015	AAAA-1618	Connect Update Standa

3. If you do not have any special requirements and just want to update the firmware to latest version, you can use standard update function and do not need to upload any file, choose the inverter you need to update and then click 'standard '. The system will update two firmware in the inverter automatically. The latest version will be showed in the right bottom window.

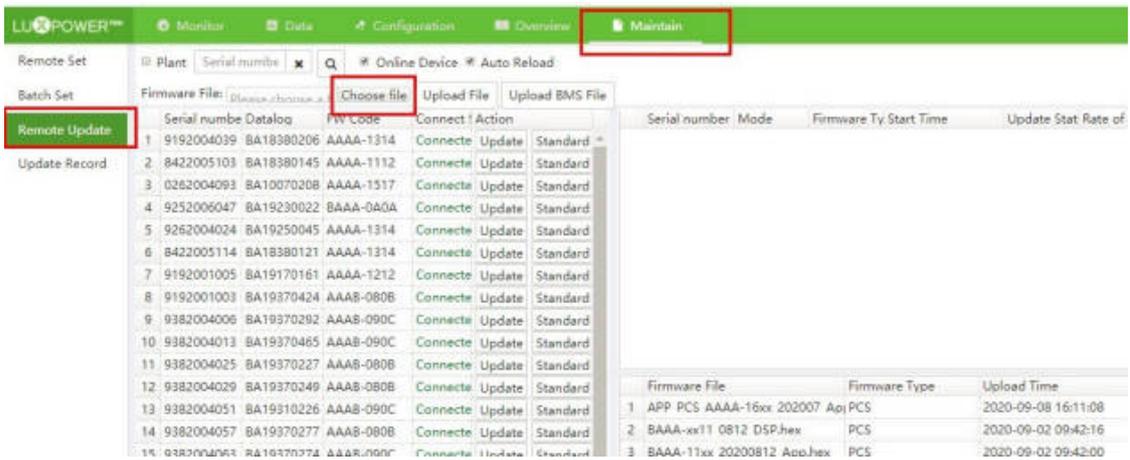
The screenshot shows the LuxPower website interface. The top navigation bar includes 'Monitor', 'Data', 'Configuration', 'Overview', and 'Maintain'. The 'Remote Update' section is highlighted with a green box. Below it is a table with columns for Serial number, Datalog, FW Code, Connect, and Action. The 'Standard' button in the 'Action' column is highlighted with a red box. Above the table, there is a search box labeled 'Plant' and a red box around it. Below the search box, there is a red box around the 'Standard' button. Below the table, there is a red box around the 'Standard' button.

1. Search the inverter you want to update

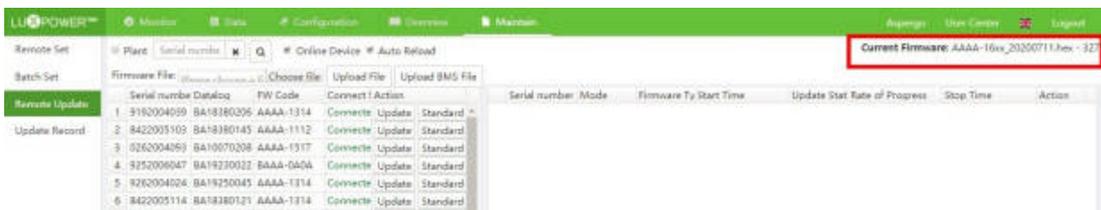
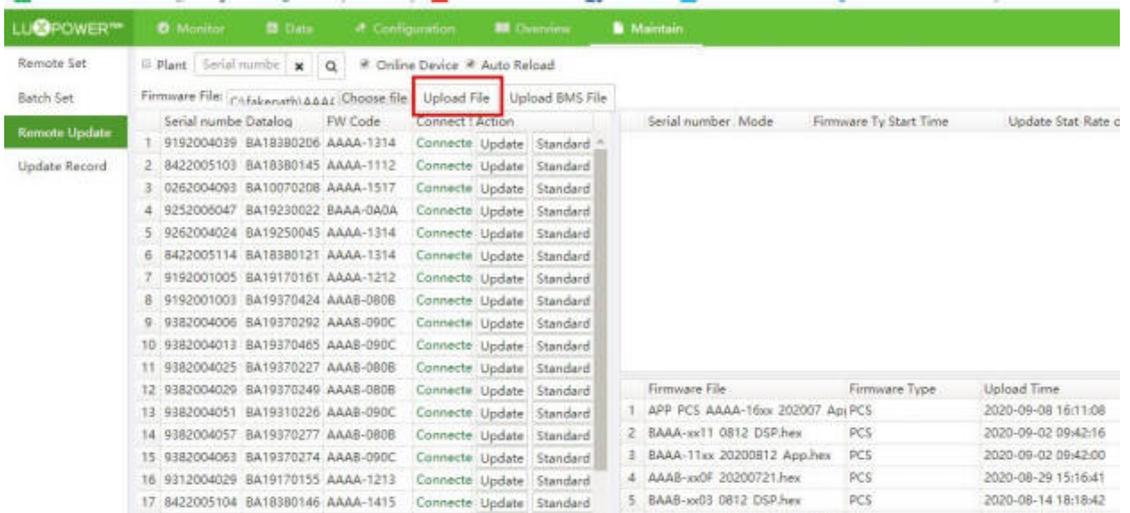
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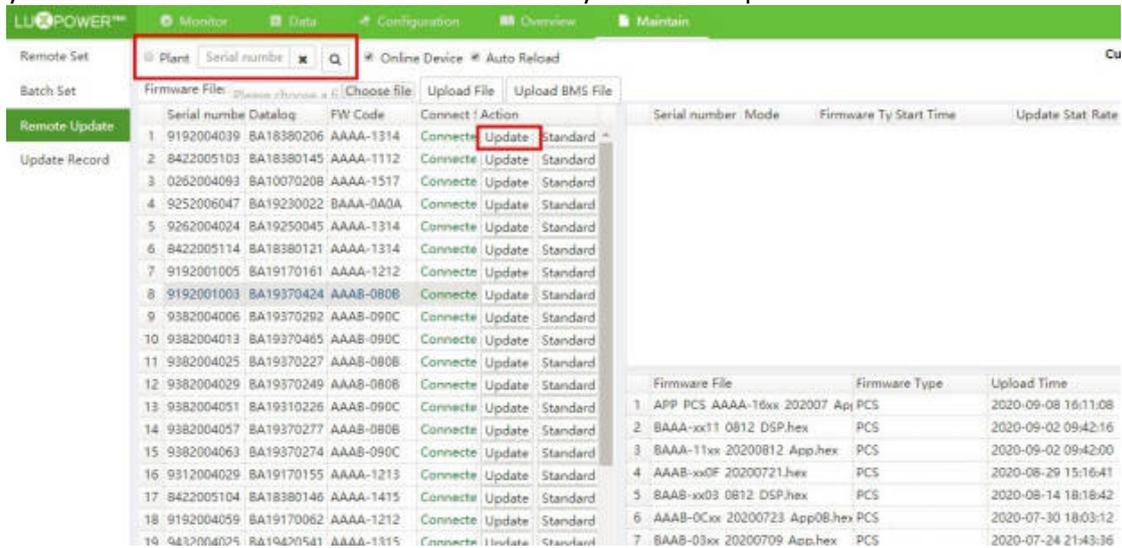
4. If you have any special requirement and already get the firmware file, please save it in your computer and then choose the file



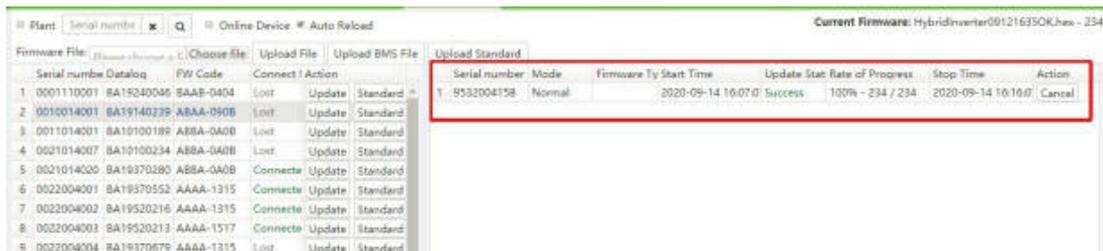
5. Click upload file after choose the file, after load successfully, your file will be showed on the right side



6. Choose the inverter you need to update, and click update, if there are too many inverters, you can use search function to find the inverter you need to update



7. After you click update, the progress will be showed on the right side



8. When the system shows 100% and Success, it means the firmware has been download into flash in inverter successfully, then the firmware will flashed to CPU, just keep the inverter there until the inverter restart itself after flash successfully.

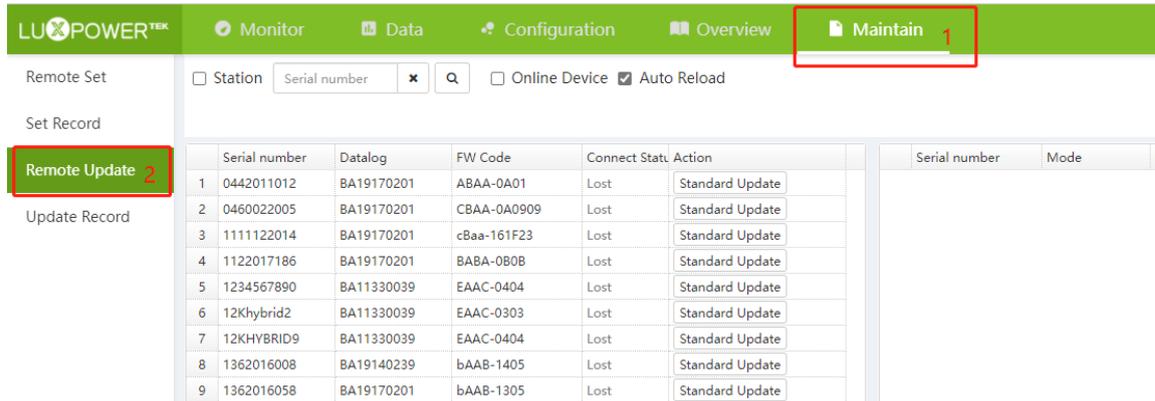
9. Please note normally we need to update 2 firmware for the inverter, after inverter resart, you can update another firmware. For standard update, it will update two firmware automatically. For non-standard update, you can update any of them firstly. If the wifi signal is not good, the update may stopped, you can click update again after failure. The system will continue to download from the interrupted point.

10.If you still have any questions, please contact Lux power team for support. info@luxpowertek.com

3. Firmware remote update by Installer

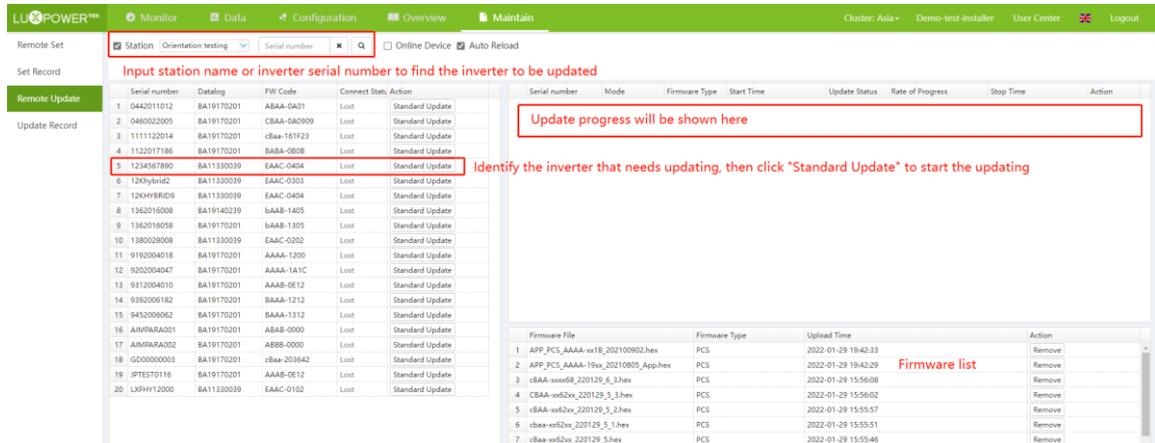
Installers are now able to update inverter firmware remotely on Luxpower monitoring web page. Procedure is as below,

1. Log into Luxpower monitoring web page on your computer with your installer account, Click the “Maintain” tab, and then select “Remote Update” on the left options,

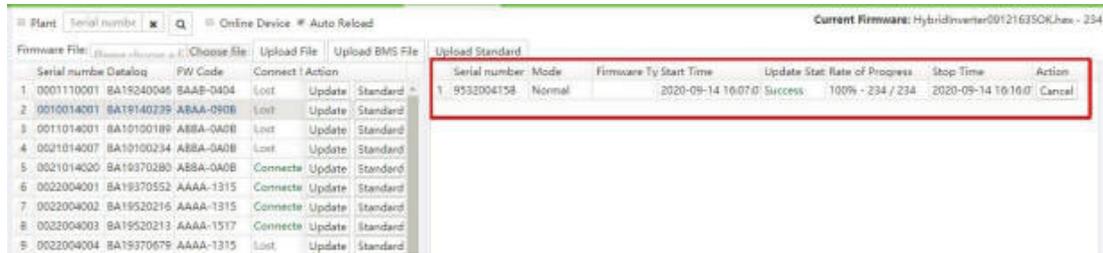


2. Choose the inverter you need to update and then click ‘standard Update’. The update will start automatically.

The latest firmware version is shown in the bottom right area of monitoring page.



3. After you click “Standard Update”, the progress will be shown on the right side.



4. When the update progress shows 100% and Success, it just means the firmware has been successfully downloaded into the inverter, then the firmware will be flashed to the corresponding micro chip, just leave the inverter on until the inverter restarts itself after the firmware is updated successfully.

Please note,

For SNA Eco-hybrid inverters, there are 3 chips that needs updating. The 3 micro chips will be updated consecutively one by one automatically. After one chip is updated, it will take around 5 min before the next chip starts updating. Please make sure that you have updated all the 3 chips.

During the firmware update, the update might be interrupted and show failure in the update progress area due to some external reasons, e.g. WiFi signal not good, inverter is shutdown intentionally, etc. If this failure happens, you can click the “Cancel” button in the progress area and then click “Standard Update” again , the update will continue from the interrupted point.

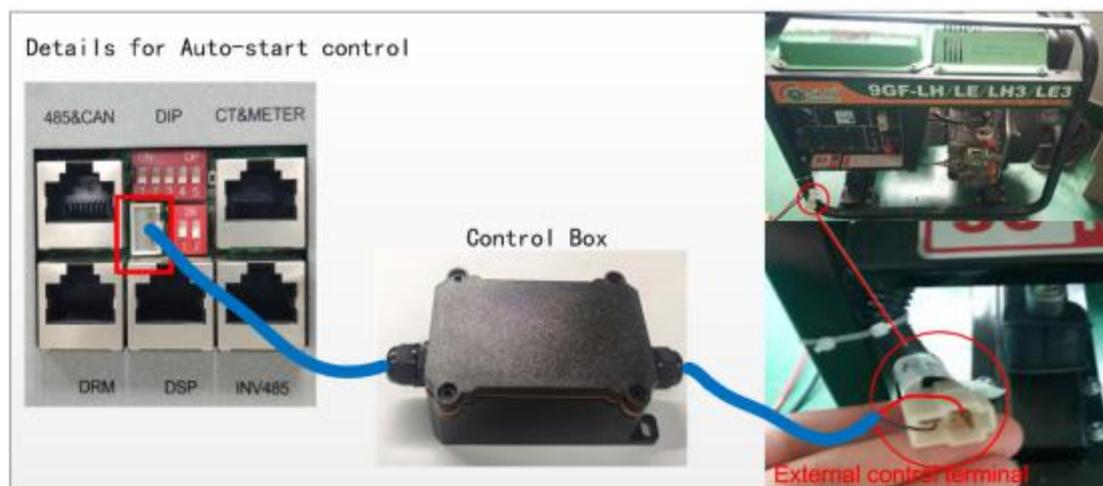
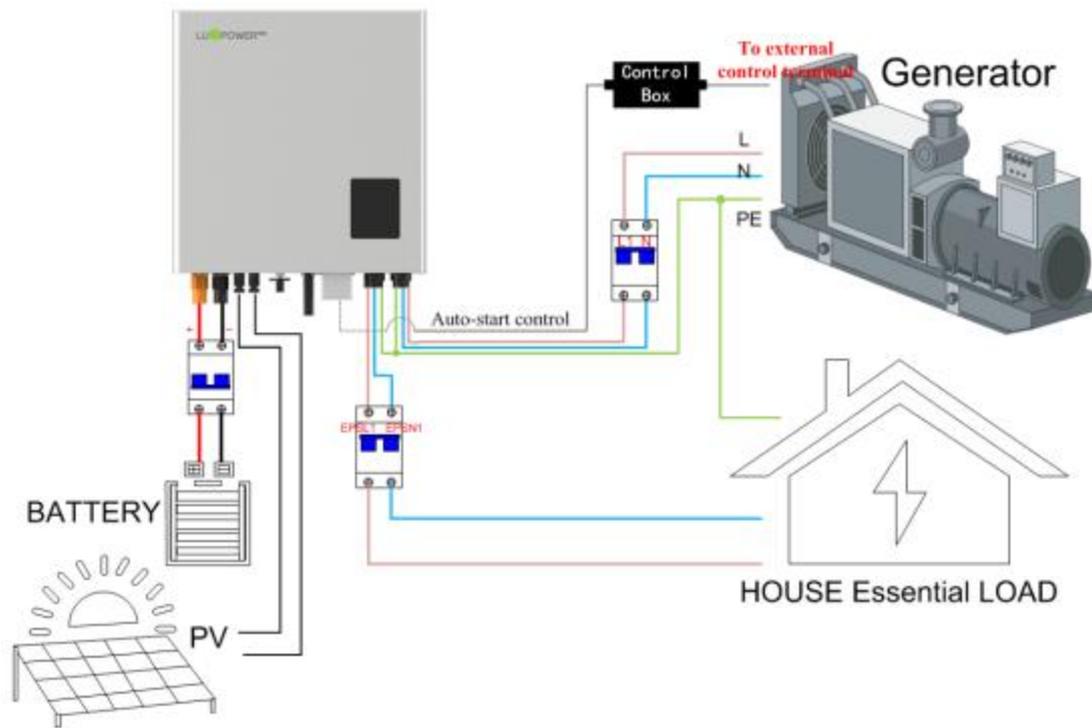
If you have any questions, please contact Luxpower team at info@luxpowertek.com for support.

Work with Generator

Users can connect the generator output to inverter Grid terminal. If you have both grid and generator as AC input, an external ATS is required to switch between grid and generator.

If you need to auto start the generator when battery is lack of energy, please purchase an external control box to remote turn on/off the generator (which support dry contact function).

The generator will be automatically started when battery SOC is lower than the cut-off value or there is charge request from BMS. When voltage is higher than AC charge cut-off value, it will stop the generator.



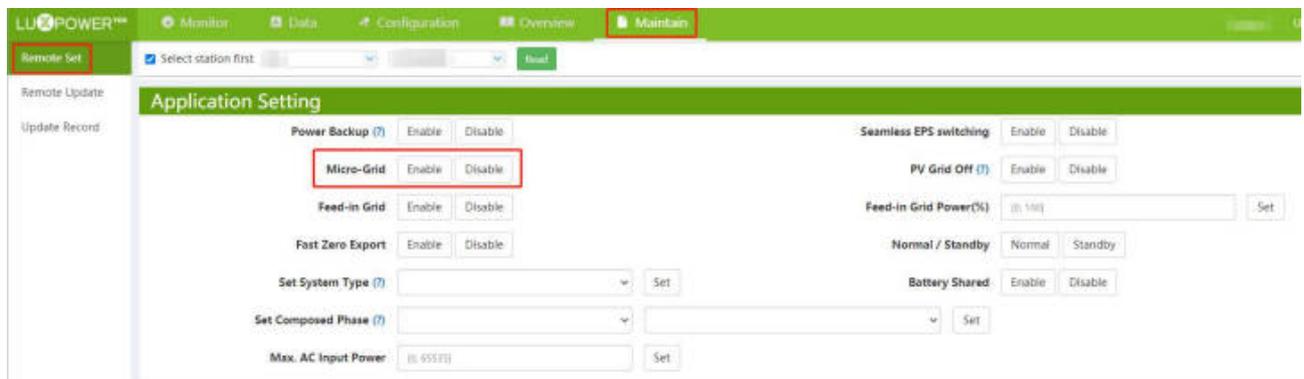
Notice: 1. The Generator itself should support auto-start function which may be named as "remote start" and physical terminal might be the "AUX input" and the "GND" (Read the manual of generator carefully)

2. The output of the control box is an ON/ OFF signal , it can be described as an external switch of generator.



Configuration for auto start function

1. Micro-grid function should be enabled



2. Auto start: When the battery SOC is low than Offgrid cut-off value , the generator will be auto started.



3. Auto stop: When the battery SOC reaches AC charge level , the generator will be stopped automatically.



Typical Application Instruction for LXP 3-6k Hybrid

List

- 1. Battery configuration..... 1
- 2. Working modes..... 2

1. Battery configuration

1.1 Lithium Battery

- Step1: Pleasemake sure the battery input voltage is within the operation range:40-60Vdc;
- Step2: You can make sure the Lithium battery can be compatible with LXP 3-6K Hybrid ;
- Step3: Please make sure the PINs layout of both the inverter and battery are correct ;
- Step4: Please make sure the DIP configuration and comm cables among the batteries are correct ;
- Step5: Please select the correct battery brand option via the LCD of Inverter .

Connection between inverter and battery



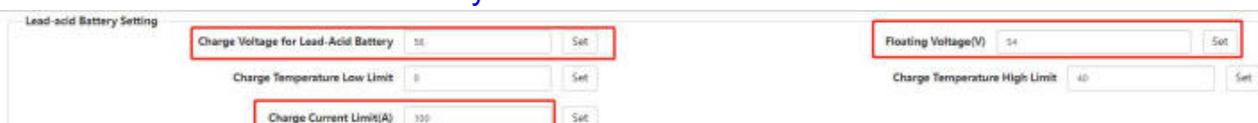
Pins Layout of inverter side

Pin	Function Description
1	BAT 485 B
2	BAT 485 A
3	BAT CAN L
4	BAT CAN H
5	NC
6	BAT NTC
7	NA
8	GND-S

Note: The original comm cable is for Pylon battery as default ,and if the PINs layout for the battery of other brand, please re-make the cable , just keep the correct PINs and disconnect the unused PINs.

1.2 Lead-acid Battery

- Step1: Pleasemake sure the battery input voltage is within the operation range:40-60Vdc;
 - Step2: Please set as Lead-acid battery mode via the LCD of Inverter .
 - Step3: Please confirm the charge and discharge parameters via the APP or Webserver
- The default settings show as below ,and you can change it according to the recommended value in the battery manual.



Lead-acid Battery Setting

Discharge Cut-off Voltage(V) (7) 42 Set

Discharge Current Limit(A) (7) 100 Set

Discharge Temperature Low Limit (7) -25 Set

Discharge Temperature High Limit (7) 55 Set

On Grid Discharge Derate Vbat 40 Set

Start Discharge P_import 100 Set

2. Working modes

2.1. Self-use mode: Default working mode ,the external CT or meter installation is required, and the PV power will be first used to supply load , and the excess power can be used to charge battery ,

- ◆ and if PV power > charge power+ load consumption, the excess part can be exported to grid;
- ◆ and if PV power < load consumption, the battery will discharge the insufficient part to take the load;
- ◆ and if PV power + battery discharge power < load consumption, the insufficient part will be drawn from grid;
- ◆ without the charge hours , the inverter will always work in self-use mode .

The default settings are shown as below:

AC Charge disable ,Charge Priority disable, Forced discharge disable;

Select station First 3invs-12-Parallel 11/20/2020

Charge Setting

System Charge Power Rate(%) (7) 100 Set

Charge Last Enable **Disable**

Equalization Voltage(V) 0 Set

Equalization Period(Days) 0 Set

Equalization Time(Hours) 0 Set

AC Charge

AC Charge Enable Enable **Disable**

AC Charge Power Rate(%) 100 Set

AC Battery Charge Level(%) 100 Set

AC Charge Start Time 1 00 : 00 : 00 Set

AC Charge Start Time 2 00 : 00 : 00 Set

AC Charge Start Time 3 00 : 00 : 00 Set

AC Charge End Time 1 00 : 00 : 00 Set

AC Charge End Time 2 00 : 00 : 00 Set

AC Charge End Time 3 00 : 00 : 00 Set

Charge Priority

Charge Priority (7) Enable **Disable**

Priority Charge Rate(%) 100 Set

Priority Charge Level(%) (7) 100 Set

Charge First Start Time 1 00 : 00 : 00 Set

Charge First Start Time 2 00 : 00 : 00 Set

Charge First Start Time 3 00 : 00 : 00 Set

Charge First End Time 1 00 : 00 : 00 Set

Charge First End Time 2 00 : 00 : 00 Set

Charge First End Time 3 00 : 00 : 00 Set

Lead-acid Battery Setting

Charge Voltage for Lead-Acid Battery 30.4 Set

Floating Voltage(V) 0 Set

Charge Temperature Low Limit 0 Set

Charge Temperature High Limit 40 Set

Charge Current Limit(A) 1.2 Set

Discharge Setting

System Discharge Power Rate(%) (7) 100 Set

On-grid Discharge Cut-off SOC (7) 10 Set

Off-grid Discharge Cut-off SOC 0 Set

Forced Discharge

Forced Discharge Enable Enable **Disable**

Forced Discharge Power Rate(%) 100 Set

Forced Discharge Battery Level(%) 20 Set

Forced Discharge Start Time 1 00 : 00 : 00 Set

Forced Discharge Start Time 2 00 : 00 : 00 Set

Forced Discharge Start Time 3 00 : 00 : 00 Set

Forced Discharge End Time 1 00 : 00 : 00 Set

Forced Discharge End Time 2 00 : 00 : 00 Set

Forced Discharge End Time 3 00 : 00 : 00 Set

Lead-acid Battery Setting

Discharge Cut-off Voltage(V) (7) 30.4 Set

Discharge Current Limit(A) (7) 1.2 Set

Discharge Temperature Low Limit (7) -25 Set

Discharge Temperature High Limit (7) 55 Set

On Grid Discharge Derate Vbat 0 Set

Start Discharge P_import 0 Set

You can also adjust the DOD of the battery by changing “On-grid discharge cut-off SOC”,It is 10% and DOD is 90% as default (DOD=100% - On-grid discharge cut-off SOC) . For example, if you want the DOD to be 80% , you can just set “On-grid discharge cut-off SOC” to 20%

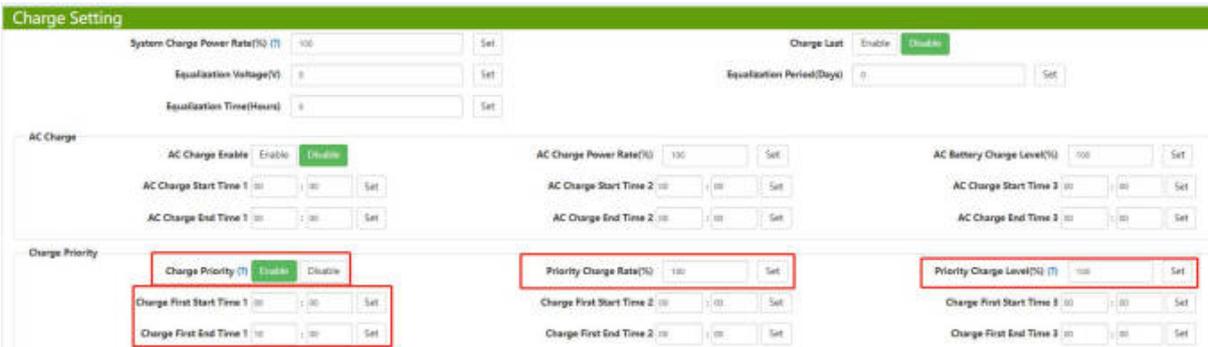


2.2. Charge first mode: If you need to make sure the PV power can be used to charge battery first while the grid power is on, but you don't want to use grid power to charge the battery, you can set Charge Priority enable

- ◆ and if PV power < Charge power, then the load will draw power from the grid;
- ◆ and if PV power > charge power, but PV power < Charge power + Load consumption, the insufficient part will be drawn from grid;
- ◆ and if PV power > Charge power + Load consumption, the excess part can be exported to grid;
- ◆ within the charge hours, the battery won't discharge power to take loads.

The settings should be like this:

Charge Priority enable, Charge hours, Priority charge rate and Priority charge Level;



That means the PV power will prioritize to charge the battery during the charge hours: 08:00-18:00, and if the battery SOC reaches priority charge level(100%) in advance, the PV power will be used to take loads, and battery won't discharge power to take loads during the charge hours even though the PV power is insufficient.

2.3. Charge and discharge according to the price at different time period:

If you need to charge the battery when grid electricity price is low, and discharge power when grid electricity price is high

The settings could be like this:

For example, Low price time period: 00:00-04:00, 12:00-16:00, and High price time period: 04:00-12:00, 16:00-19:00

That means the grid power is allowed to charge the battery during time period 00:00-04:00 and 12:00-16:00, and when the PV power is available, the PV power can be used to charge battery first, but the battery won't discharge during the charge hours. And out of the charge hours, the battery will discharge based on the load consumption, but if

you want discharge power to the grid with a certain power , you can enable “ Forced discharge”function

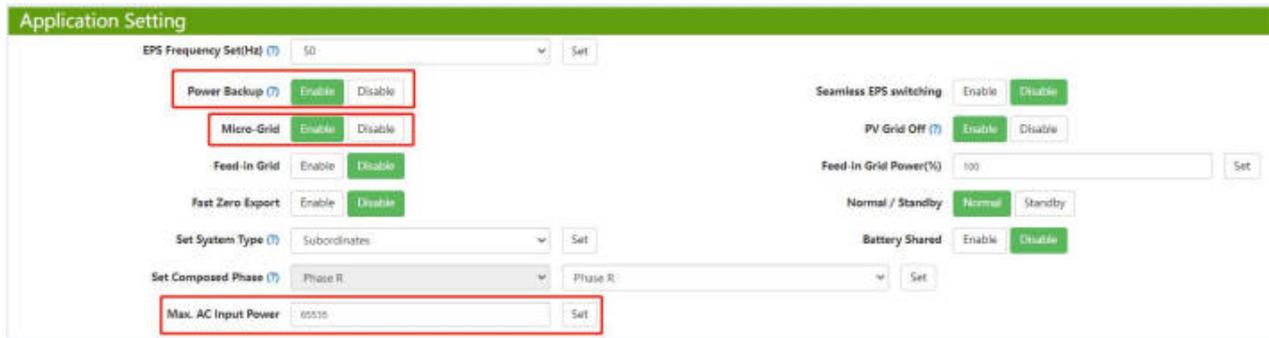
2.4. **Zero export:** If you don't want to export the excess PV power , you can set “ Feed in grid disable”, and if the export power should be 0 W strictly , you can set “Fast zero export enable” .

With this solution , the external CT should be installed .
 If you just set “Feed in grid disable” , there may be small export power when the load consumption suddenly changes. And if you enable “Fast zero export “ function ,the export power can be 0Watt strictly , but sometimes there may be small import power when the load changes suddenly.

2.5. **Power back-up:** If the grid power is available but unstable , you can enable Power back function , so there will be EPS output at EPS port when the grid power is out .

The default output voltage is 230Vac , so you can test before connecting the loads to EPS port.

2.6. **Micro-grid mode:** If the grid power is unavailable and it is totally an off-grid system, you can enable “ Power backup” and at the same time please enable “Micro-grid” function , so when the generator is on , the battery will get charged automatically



If the capacity of the generator is not powerful enough and you need to limit the input power ,then the external CT is needed to connect, or you can also just limit the charge power.

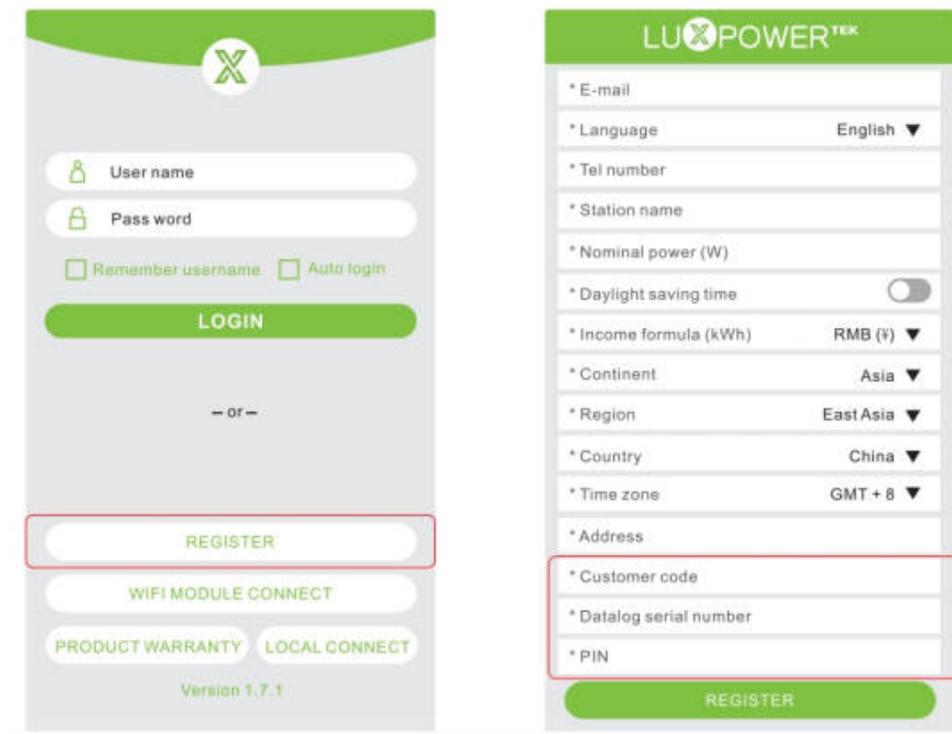
Tips: If you need to read more of Generator Auto-start function ,you can refer to the “ Guidance for Auto Starting Generator”

WiFi dongle connection instruction

WiFi dongle can be configured using mobile phone or a laptop, normally it is suggested to use mobile phone to do the connection, procedures are as below,

1. Sign up an account on the mobile phone APP,

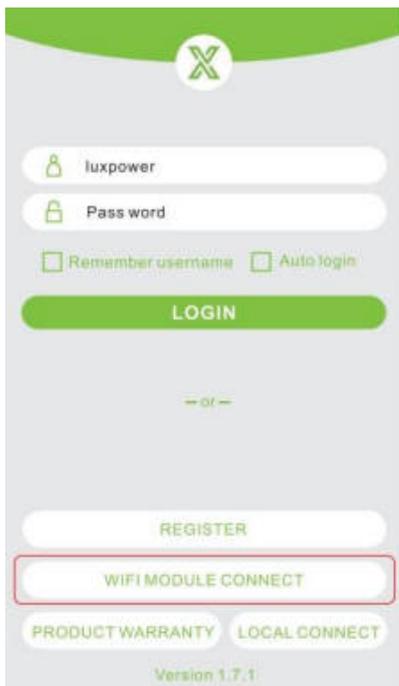
The "customer code" is a code we assigned to your distributor or installer. You can contact your supplier for their code. If they don't know their customer code, you can just use "Grace01" for your account registration.



2 Connect your mobile phone to the "BAxxxxxxx" wireless network where "BAxxxxxxx" is the serial number of the WiFi dongle.



3. Click the "WiFi MODULE CONNECT" button on the APP,



4. Select the home WiFi that the WiFi dongle is to be connected to, enter the WiFi's password. And then click "TCP Set".

The WiFi dongle will restart and try to connect to our server automatically.



5. Check the LEDs' status on the WiFi dongle. The middle light should be solid lit when the WiFi dongle connects to our server successfully.



6. Now you can disconnect your mobile phone from the "BAxxxxxxx" wireless network. Login on the LuxPowerView APP with your account, you'll find the inverter information already appears. Now you'll be able to monitor and control the inverter remotely on any smart phone or computer that has Internet connection.



LuxPowerView(APP) user guide

1.Download APP in Google Play or Apple store,



Or scan the QR code

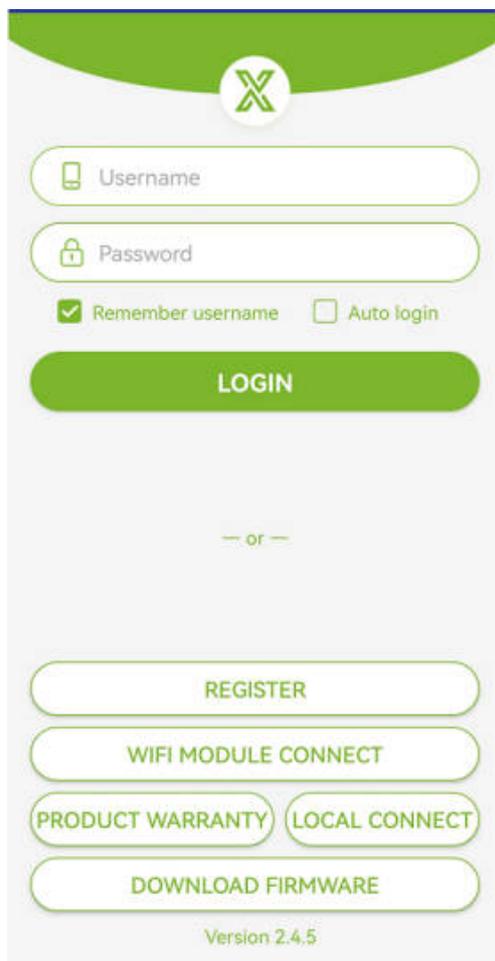


Android APP



IOS APP

Open the APP,you can see the main display



REGISTER:End users can register their account here,see SOP “Account register and WIFI configuration” for details;

WIFI MODULE CONNECT:You can configure to make the wifi dongle connect your homewifi,See SOP “Account register and WIFI configuration” for details;

PRODUCT WARRANTY:N/A

LOCAL CONNECT:If you haven't connected dongle to homewifi and registered your account,you can do system settings in this” local connect” function;

DOWNLOAD FIRMWARE:You can download the latest firmware for different models,and connect dongle's hot spot to update locally.

1.If you have got your account and also connected the homewifi,you can LOGIN to see the monitor .

The screenshots show the following UI elements and actions:

- Top Left:** 'ADD STATION' form with fields for Plant name, Continent (Asia), Region (East Asia), Country (China), and Timezone (GMT +8).
- Top Middle:** Station list with a cluster dropdown menu showing 'Cluster: Asia' and 'Cluster: Europe' options.
- Top Right:** Account profile page with fields for Username, Real Name, E-mail, Country, Timezone, Tel Number, Address, Manufacturer E-mail, and Manufacturer Tel.
- Bottom Left:** 'EDIT STATION' form with fields for Plant name (Genesis), Continent (Africa), Region (South Africa), Country (South Africa), and Timezone (GMT +2).
- Bottom Middle:** Station list with 'EDIT' and 'ADD WIFI MODULE' buttons for each station entry.
- Bottom Right:** 'ADD WIFI MODULE' form with fields for Dongle SN and PIN.

Text boxes with arrows provide the following instructions:

- Top Left:** "You can add new station in your account here"
- Top Middle:** "There are 2 clusters can be chosen,currently most of stations are in Asia cluster,if you can't find the station,you can change to Europe cluster to see."
- Top Right:** "You can edit your account information and modify the password here"
- Bottom Left:** "You can edit the station's information here"
- Bottom Right:** "You can add wifi dongle for the station,input dongle's SN and PIN number to add."

2. Click and enter one station ,you will see some programs as below shows,and do some settings which are same as you do in "LOCAL CONNECT" program.

LUXPOWER^{TEK}

Device: 9192004039

Solar Yielding

15 kWh
Today Yielding
23549.2 kWh
Total Yielding



Battery Discharging

3.7 kWh
Today Discharging
3459.9 kWh
Total Discharging



Feed-in Energy

4.2 kWh
Today Export
8725 kWh
Total Export



Consumption

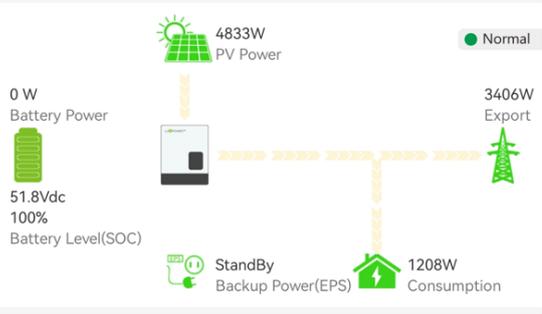
8.5 kWh
Today Usage
38289.1 kWh
Total Usage



4833W PV Power ● Normal

0 W Battery Power 3406W Export

51.8Vdc 100% Battery Level(SOC)



StandBy Backup Power(EPS) 1208W Consumption

Click icon to see three kinds of informations showed in **Solar Yielding**

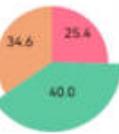
Solar Yielding

15 kWh
Today Yielding
23549.2 kWh
Total Yielding



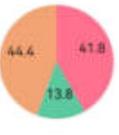
Solar Yielding

25.4% Load Today
40.0% Charge Today
34.6% Export Today
Today 15 kWh



Solar Yielding

41.8% Load Total
13.8% Charge Total
44.4% Export Total
Total 23549.2 kWh



LUXPOWER^{TEK}

Device: 9192004039

Solar Yielding

15 kWh
Today Yielding
23549.2 kWh
Total Yielding



Battery Discharging

3.7 kWh
Today Discharging
3459.9 kWh
Total Discharging



Feed-in Energy

4.2 kWh
Today Export
8725 kWh
Total Export



Consumption

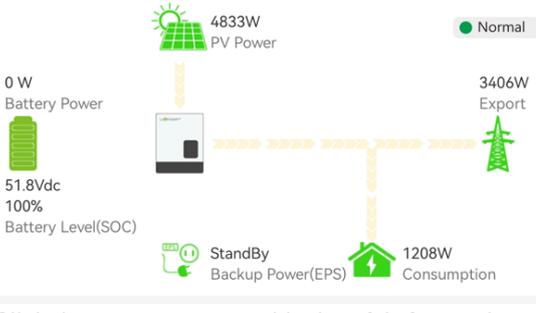
8.5 kWh
Today Usage
38289.1 kWh
Total Usage



4833W PV Power ● Normal

0 W Battery Power 3406W Export

51.8Vdc 100% Battery Level(SOC)



StandBy Backup Power(EPS) 1208W Consumption

Click icon to see two kinds of informations showed in **Battery Charging&Discharging**

Battery Charging

6 kWh
Today Charging
4050.6 kWh
Total Charging



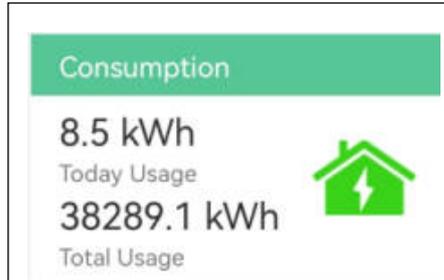
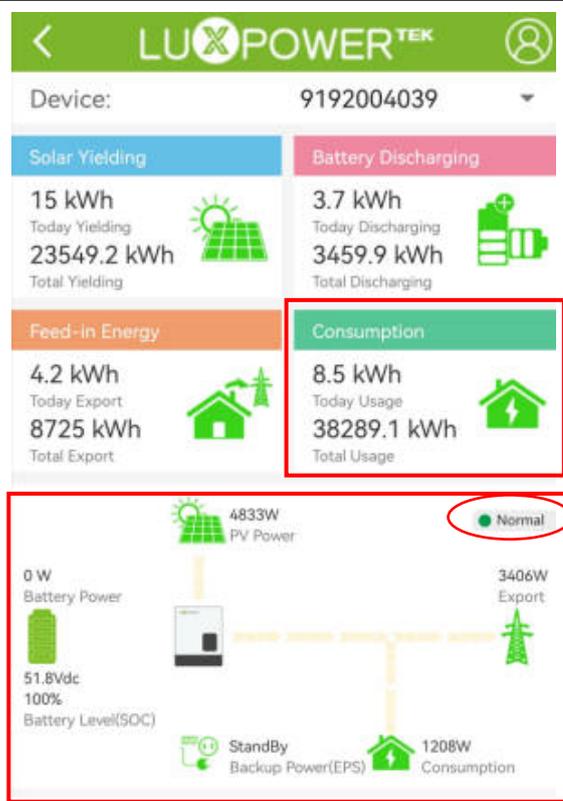
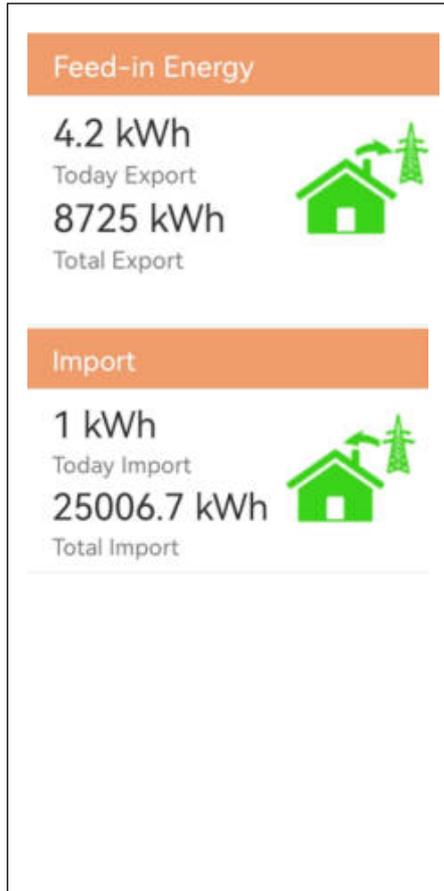
Battery Discharging

3.7 kWh
Today Discharging
3459.9 kWh
Total Discharging





Click icon to see two kinds of informations showed in **Feed-in Energy&Import**



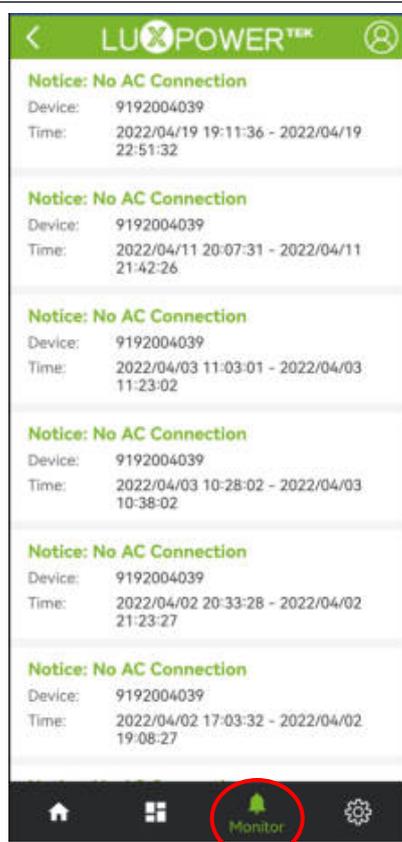
You can see Today Usage and Total Usage in **Consumption**

Here you can see the whole system state of working,if everything is OK and the inverter is online, it will show Normal

Overview display

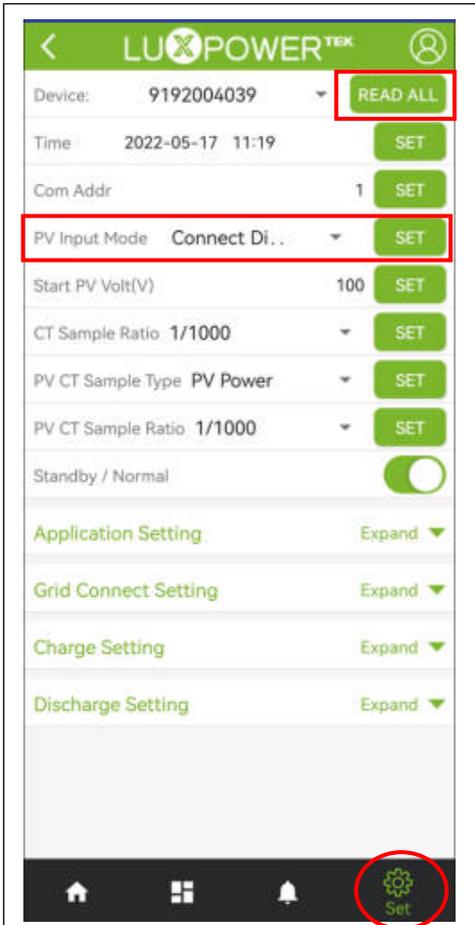


In Data item,you can see the power curve and histogram according to Day,MONTH,YEAR ,TOTAL



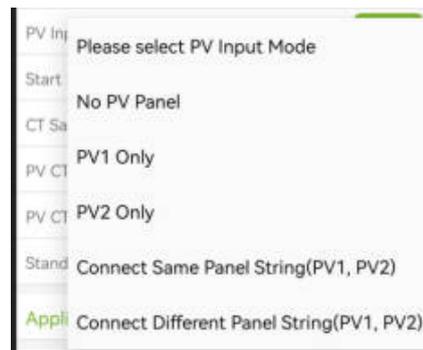
In Monitor item you can see some notifications of the system

Set(same to LOCAL CONNECT item)

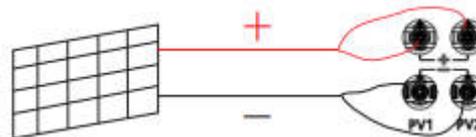


1. You can download the latest version APP ,then wait for about 2~5s,it will read automatically ;if it doesn't read you can click READ ALL

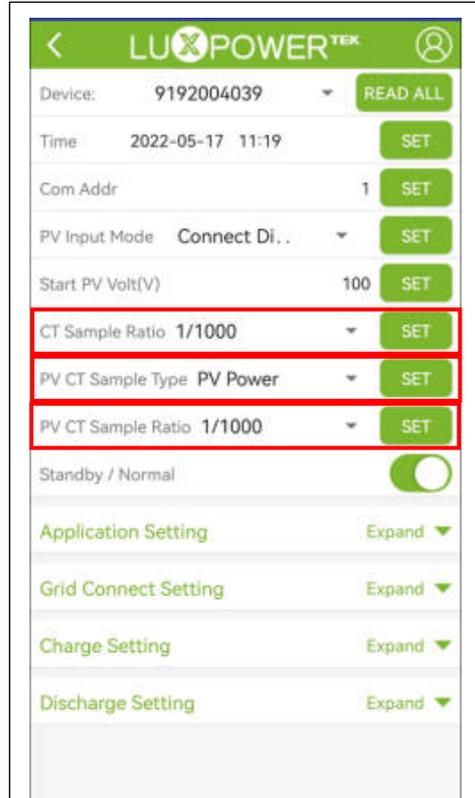
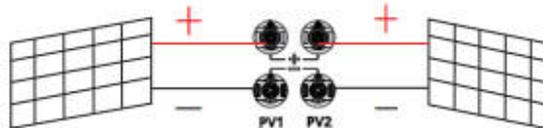
2.PV Input Mode:Choose the correct one



Connect Same Panel String(PV1,PV2)



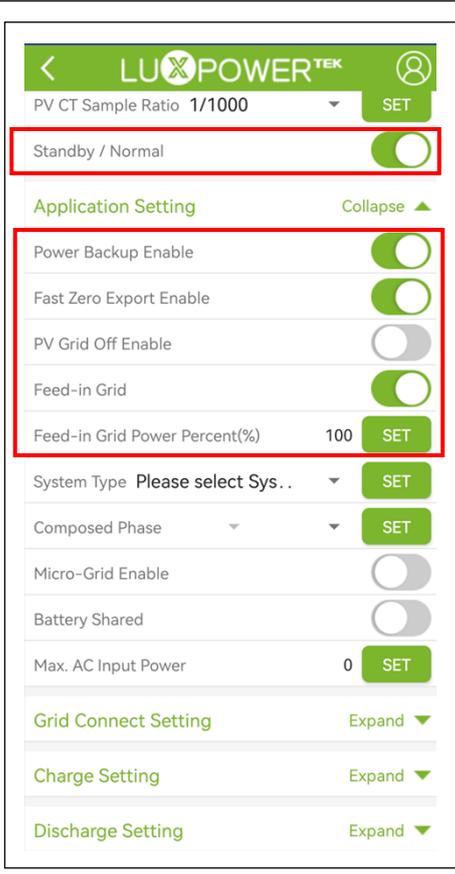
Connect Different Panel String(PV1,PV2)



CT Ratio:default 1/1000,,please choose correct one

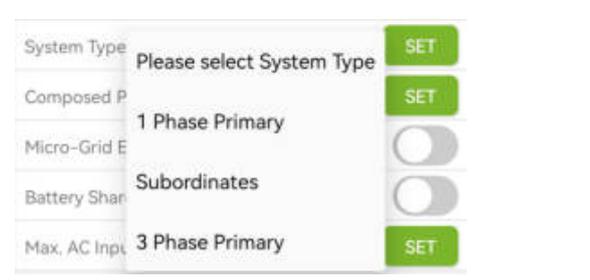
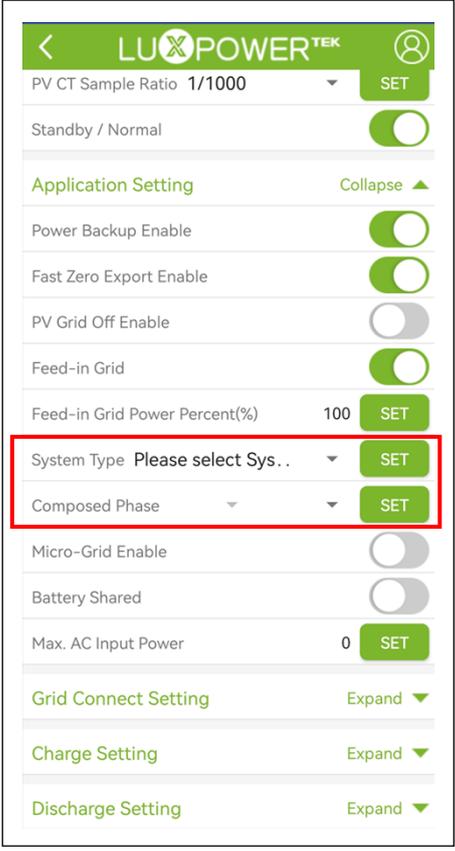


**Default
PV Power**

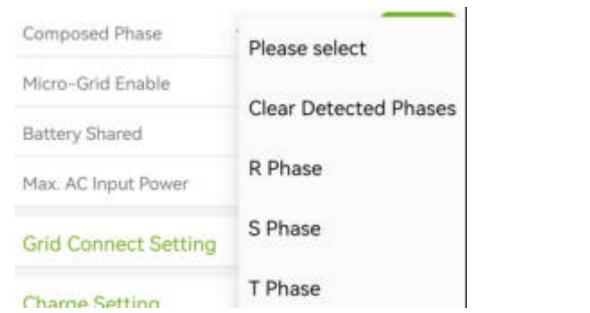


Standby/Normal: choose to make inverter be standby state or normal work state, when you want to setup battery or configure meter or enable the off-grid mode, you need to make it standby.

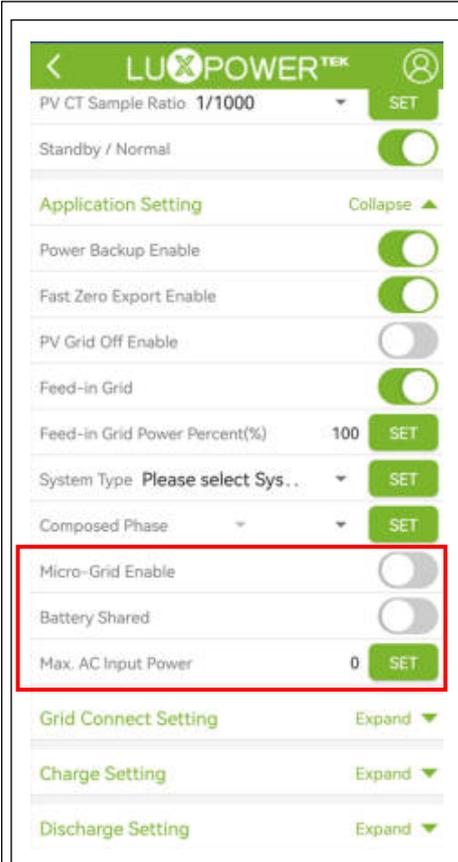
Application Setting:
Power Backup: If you enable it, battery will supply power to EPS side when grid is not available
Fast Zero Export: If you don't want to export the excess PV power strictly, you can set " **Feed in Grid disable**", and " **Fast zero export enable**"
PV Grid Off: If you enable it, when the system is off-grid and has no battery available, it still can supply power to EPS output side by PV, but it's not recommended to carry big loads because PV source is not stable.
Feed-in Grid: If you want to export excess PV power you can enable it and set **Feed-in Grid Power Percent(%)**



System Type: When it is **paralleled** system, you need to set one of inverters as Primary (Master) and the others as Subordinates (Slaves)



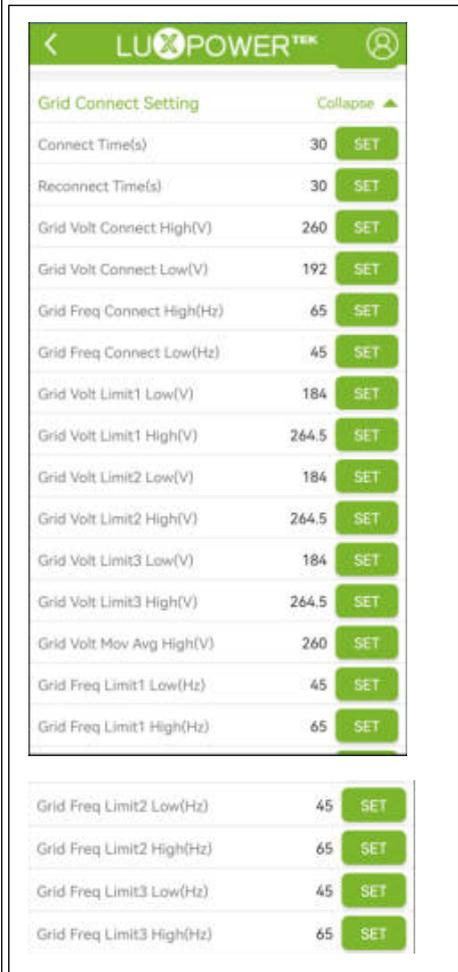
Composed Phase: Select correct Phase for each of inverters



Micro-Grid Enable: If it's a completely off grid system, you can **enable Micro-Grid** and **Power Backup**, when the generator is on, the battery will be charged automatically

Battery Shared: when it is **paralleled** system, we recommend to connect power cables from the whole battery bank to each of inverters, and enable this Battery Shared function.

Max.AC Input Power: you can set it as you want. When it's **paralleled** system, you can set the total AC Input power which you want in the Primary model, Subs(Slaves) no need to set. And if you set it to 0W, AC won't supply power to charge battery, but it still supply the load.

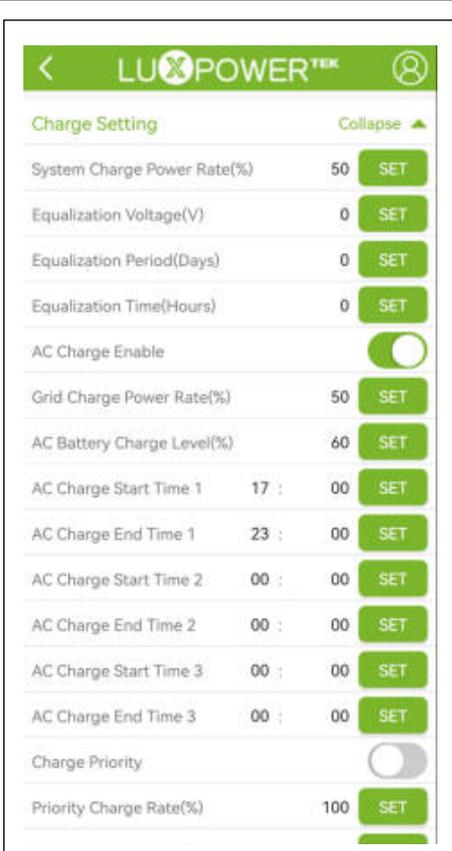


Grid Connect Setting:

Connect&Reconnect Times(s): the time for inverter detects grid connection

All the other Grid Settings:

keep the factory default setting, no need change



Charging Setting:

System Charge Power Rate(%):0%~100% can be set

Equalization Voltage/Period/Time:

Special for lead-acid,setup according to battery recommendation

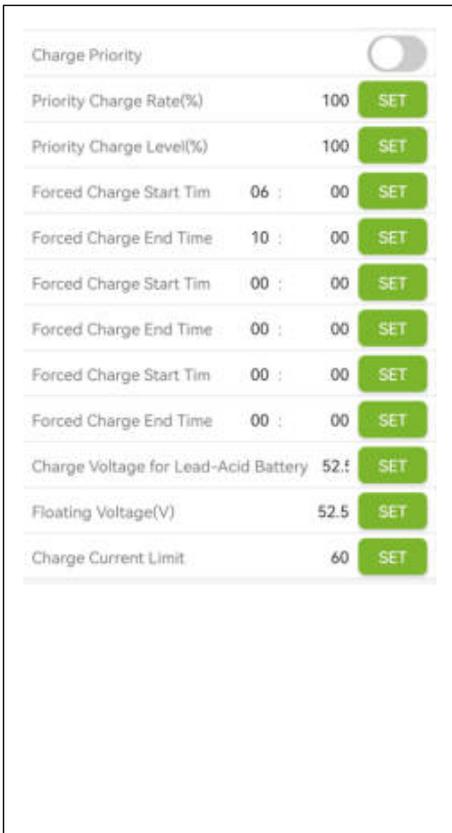
AC Charge:If you enable AC charge,grid will charge the battery in the time,and battery won't discharge until AC is not available

Grid Charge Power Rate(%):Grid charge power is up to 4000W,the rate can be set at 0%~100%

AC Battery Charge Level(%):The end of charge for battery SOC%,0%~100% can be set

AC Charge Start Time 1/2/3:set to start AC charge at time

AC Charge End Time 1/2/3:set to stop AC charge at time



Charging Setting:

Charge Priority:If you enable it,PV power will charge the battery as priority

Priority Charge Rate(%):PV charge power is up to 4000W,the rate can be set at 0%~100%

Priority Charge Level(%):Battery PV charge cut off SOC,0%~100% can be set

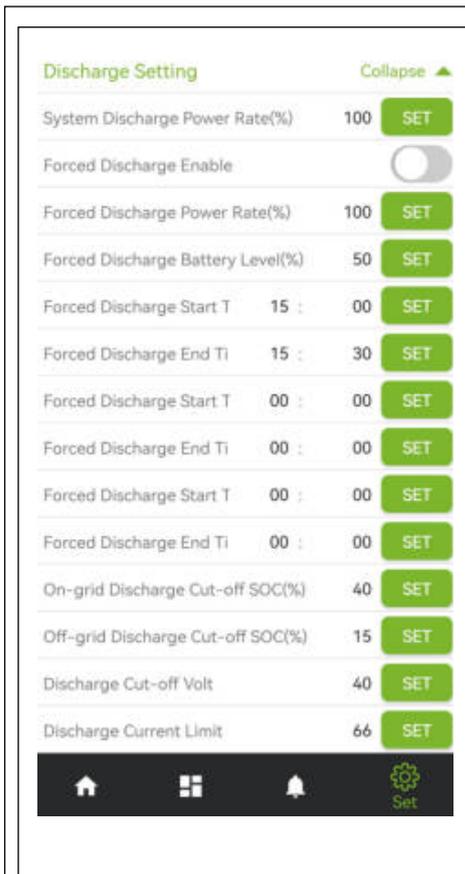
Forced Charge Start Time: set to start PV charge at time

Forced Charge End Time: set to stop PV charge at time

Charge Voltage for Lead-Acid:please follow the battery's recommendation

Floating Voltage(V): please follow the battery's recommendation

Charge Current Limit:it's up to 80A,but please set it according to battery spec



Discharge Setting

System Discharge Power Rate(%):it's up to 4000W for battery discharge,0%~100% can be set

Forced Discharge:if you enable it,the battery will be forced discharge

Forced Discharge Power Rate(%):it's up to 4000W for battery discharge,0%~100% can be set

Forced Discharge Battery Level(%):Battery forced discharge cut-off SOC,0%~100% can be set

Force Discharge Start Time: set to start forced discharge battery at time

Force Discharge End Time: set to stop forced discharge battery at time

On-grid Discharge Cut-off SOC(%):0%~100% can be set, follow the lithium battery manual

Off-grid Discharge Cut-off SOC(%):0%~100% can be set, follow the lithium battery manual

Discharge Cut-off Volt:Min.value is to 40V, please follow the battery manual

Discharge Current Limit:it's up to 80A, please follow the battery manual

LuxPowerView(APP) user guide

1.Download APP in Google Play or Apple store,



Or scan the QR code

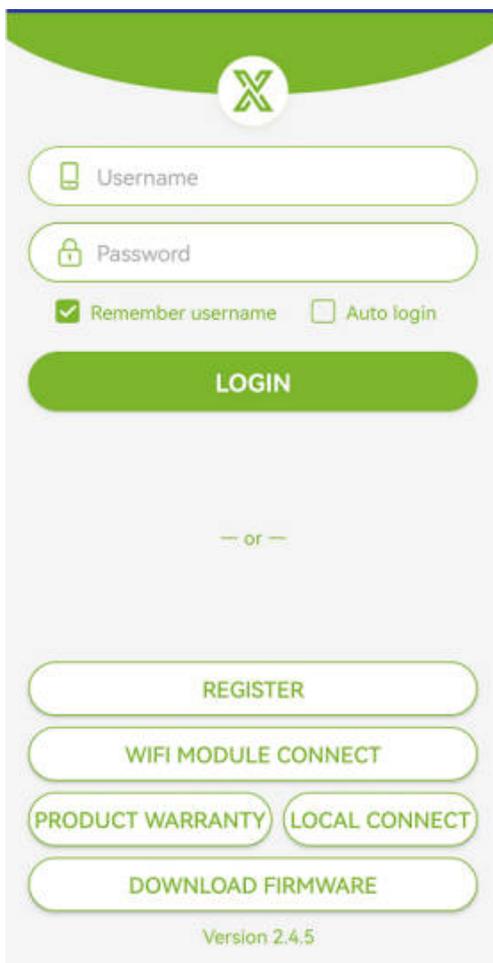


Android APP



IOS APP

Open the APP,you can see the main display



REGISTER:End users can register their account here,see SOP “Account register and WIFI configuration” for details;

WIFI MODULE CONNECT:You can configure to make the wifi dongle connect your homewifi,See SOP “Account register and WIFI configuration” for details;

PRODUCT WARRANTY:N/A

LOCAL CONNECT:If you haven't connected dongle to homewifi and registered your account,you can do system settings in this” local connect” function;

DOWNLOAD FIRMWARE:You can download the latest firmware for different models,and connect dongle's hot spot to update locally.

1.If you have got your account and also connected the homewifi,you can LOGIN to see the monitor .

The composite image illustrates the LUPOWER™ mobile application interface for station management and account settings. It consists of five screenshots:

- Top Left:** "ADD STATION" form with fields for Plant name, Continent (Asia), Region (East Asia), Country (China), Timezone (GMT +8), and Daylight saving time. A green "ADD STATION" button is at the bottom.
- Top Right:** Account information page showing fields for Username (COVIEW), Real Name (cch), E-mail (103125345@163.com), Country (China), Timezone (GMT +10), Tel Number (12345678911), Address (Shenzhen China), Manufacturer E-mail (info@luxpowertek.com), and Manufacturer Tel (+8675585209056). Buttons for "EDIT", "MODIFY PASSWORD", and "LOGOUT" are at the bottom.
- Center:** Station profile for "CViewer" with fields for Create Date (2020-12-07), Today Yielding (0), Total Yielding (115), and Address (Shenzhen China). Buttons for "EDIT" and "ADD WIFI MODULE" are at the bottom.
- Bottom Left:** "EDIT STATION" form, identical to the "ADD STATION" form but with the station name pre-filled as "CViewer". A green "EDIT STATION" button is at the bottom.
- Bottom Right:** "ADD WIFI MODULE" form with fields for Dongle SN and PIN. A green "ADD WIFI MODULE" button is at the bottom.

Red arrows indicate the flow: from the central station profile to the "ADD STATION" form, the "EDIT STATION" form, the "ADD WIFI MODULE" form, and the account information page.

You can add new station in your account here

You can edit your account information and modify the password here

You can edit the station's information here

You can add wifi dongle for the station, input dongle' s SN and PIN number to add.

2. Click and enter one station ,you will see some programs as below shows,and do some settings which are same as you do in "LOCAL CONNECT" program.

LUXPOWER^{TEK}

Device: 9192004039

Solar Yielding

15 kWh
Today Yielding
23549.2 kWh
Total Yielding



Battery Discharging

3.7 kWh
Today Discharging
3459.9 kWh
Total Discharging



Feed-in Energy

4.2 kWh
Today Export
8725 kWh
Total Export

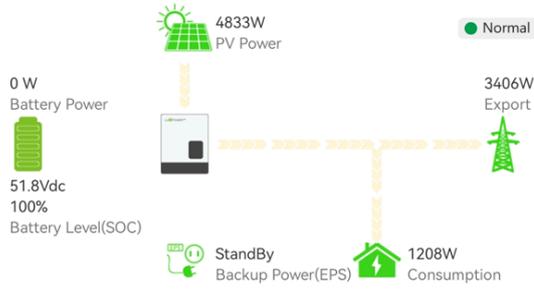


Consumption

8.5 kWh
Today Usage
38289.1 kWh
Total Usage



4833W PV Power



0 W Battery Power
51.8Vdc
100% Battery Level(SOC)

StandBy Backup Power(EPS)

1208W Consumption

3406W Export

Normal

Click icon to see three kinds of informations showed in **Solar Yielding**

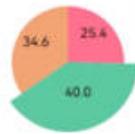
Solar Yielding

15 kWh
Today Yielding
23549.2 kWh
Total Yielding



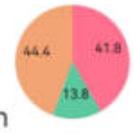
Solar Yielding

25.4% Load Today
40.0% Charge Today
34.6% Export Today
Today 15 kWh



Solar Yielding

41.8% Load Total
13.8% Charge Total
44.4% Export Total
Total 23549.2 kWh



LUXPOWER^{TEK}

Device: 9192004039

Solar Yielding

15 kWh
Today Yielding
23549.2 kWh
Total Yielding



Battery Discharging

3.7 kWh
Today Discharging
3459.9 kWh
Total Discharging



Feed-in Energy

4.2 kWh
Today Export
8725 kWh
Total Export

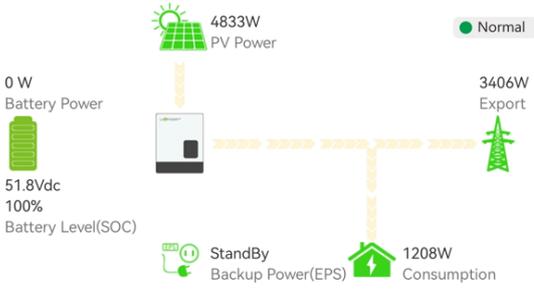


Consumption

8.5 kWh
Today Usage
38289.1 kWh
Total Usage



4833W PV Power



0 W Battery Power
51.8Vdc
100% Battery Level(SOC)

StandBy Backup Power(EPS)

1208W Consumption

3406W Export

Normal

Click icon to see two kinds of informations showed in **Battery Charging&Discharging**

Battery Charging

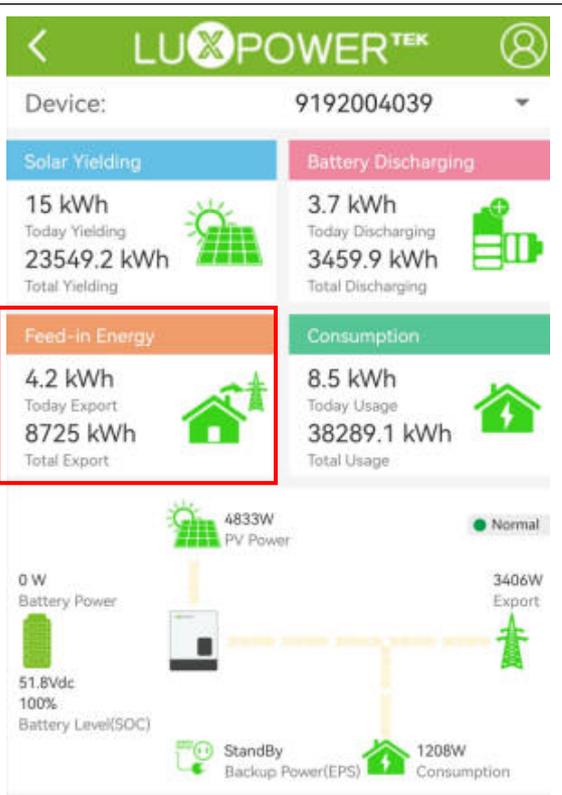
6 kWh
Today Charging
4050.6 kWh
Total Charging



Battery Discharging

3.7 kWh
Today Discharging
3459.9 kWh
Total Discharging





Click icon to see two kinds of informations showed in **Feed-in Energy&Import**



You can see Today Usage and Total Usage in **Consumption**

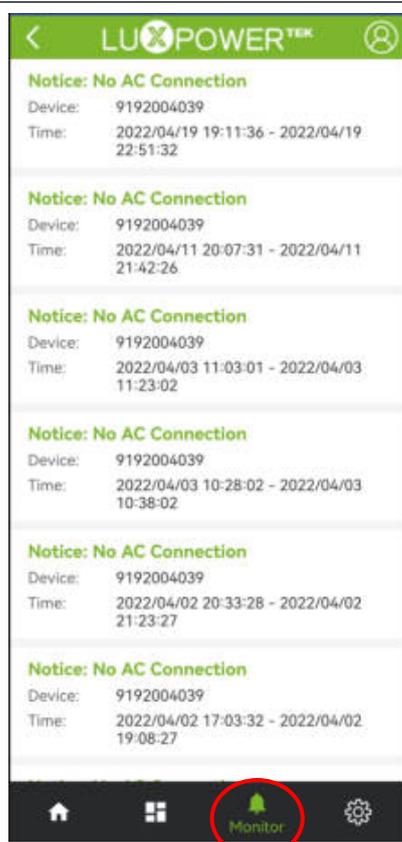


Here you can see the whole system state of working,if everything is OK and the inverter is online, it will show Normal

Overview display

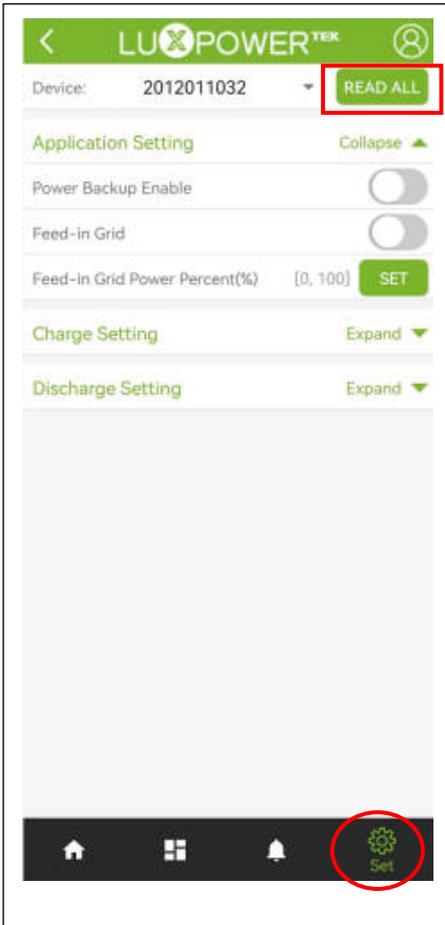


In Data item,you can see the power curve and histogram according to Day,MONTH,YEAR ,TOTAL



In Monitor item you can see some notifications of the system

Set(same to LOCAL CONNECT item)

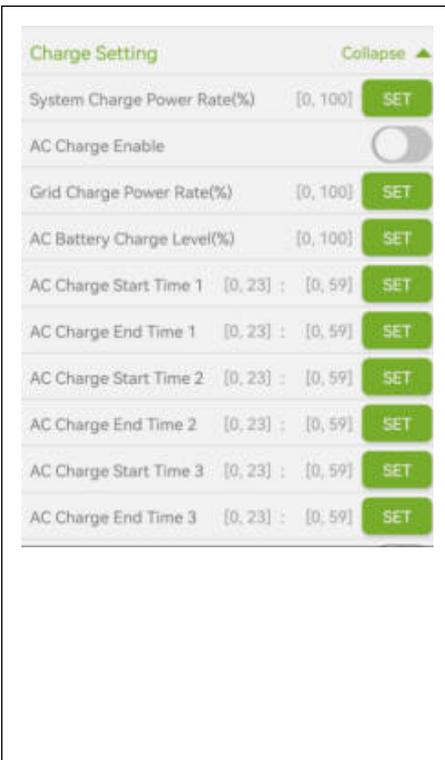


1.You can download the latest version APP ,then wait for about 2~5s,it will read automatically ;If it doesn't read you can click READ ALL

Application Setting:

Power Backup:If you enable it,battery will supply power to EPS side when grid is not available

Feed-in Grid:If you want to export excess PV power you can enable it and set **Feed-in Grid Power Percent(%)**



Charging Setting:

System Charge Power Rate(%):0%~100% can be set

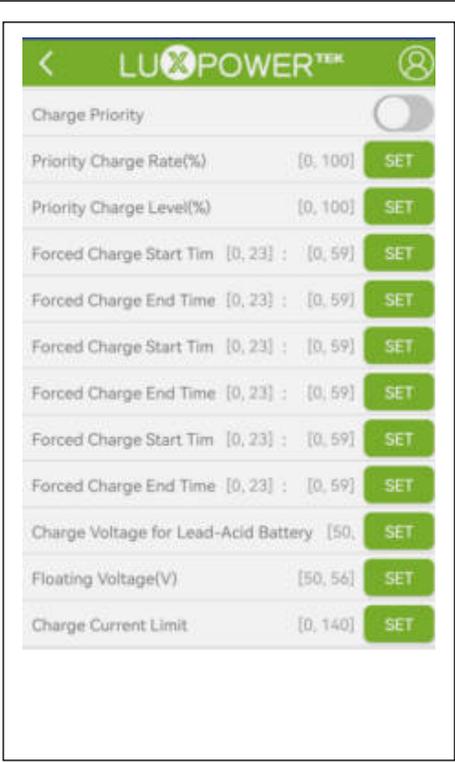
AC Charge:If you enable AC charge,grid will charge the battery in the time,and battery won't discharge until AC is not available

Grid Charge Power Rate(%):Grid charge power is up to 4000W,the rate can be set at 0%~100%

AC Battery Charge Level(%):The end of charge for battery SOC%,0%~100% can be set

AC Charge Start Time 1/2/3:set to start AC charge at time

AC Charge End Time 1/2/3:set to stop AC charge at time



Charging Setting:

Charge Priority: If you enable it, PV power will charge the battery as priority

Priority Charge Rate(%): PV charge power is up to 4000W, the rate can be set at 0%~100%

Priority Charge Level(%): Battery PV charge cut off SOC, 0%~100% can be set

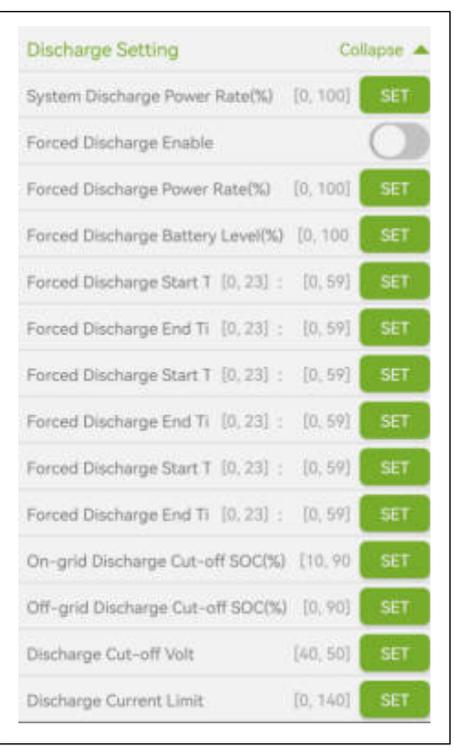
Forced Charge Start Time: set to start PV charge at time

Forced Charge End Time: set to stop PV charge at time

Charge Voltage for Lead-Acid: please follow the battery's recommendation

Floating Voltage(V): please follow the battery's recommendation

Charge Current Limit: it's up to 80A, but please set it according to battery spec



Discharge Setting

System Discharge Power Rate(%): it's up to 4000W for battery discharge, 0%~100% can be set

Forced Discharge: if you enable it, the battery will be forced discharge

Forced Discharge Power Rate(%): it's up to 4000W for battery discharge, 0%~100% can be set

Forced Discharge Battery Level(%): Battery forced discharge cut-off SOC, 0%~100% can be set

Force Discharge Start Time: set to start forced discharge battery at time

Force Discharge End Time: set to stop forced discharge battery at time

On-grid Discharge Cut-off SOC(%): 0%~100% can be set, follow the lithium battery manual

Off-grid Discharge Cut-off SOC(%): 0%~100% can be set, follow the lithium battery manual

Discharge Cut-off Volt: Min. value is to 40V, please follow the battery manual

Discharge Current Limit: it's up to 80A, please follow the battery manual