

## **APP booklet**

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# **1. About This Manual**

## **1.1 Prerequisites**

The users of this manual are mainly aimed at the operators of SOLAX, authorized installers, or end users.

## **1.2 Main Content**

The main purpose of this manual is to provide users with guidance for the use of SOLAX app. The content of the illustration is for reference only, and the actual page is the main focus. We reserve the right to change the content of the manual due to the adoption of new functions and improvements.

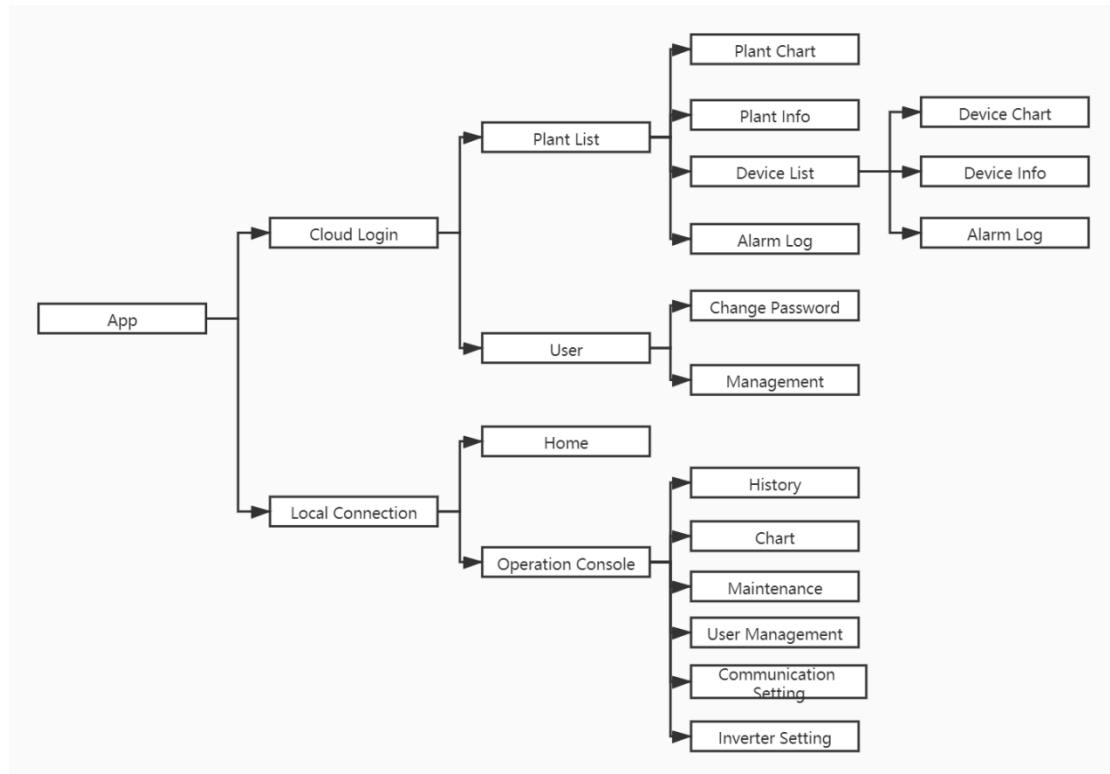
## **1.3 App Version Support**

This manual takes V6.4.1 as an example

## 2. APP Architecture

SOLAX contains “Cloud Login” and “Local Connection”:

- Cloud login: APP read data from cloud server through API and display inverter parameter
- Local connection: APP read data from inverter through WIFI connection with Modbus protocol to display and configure inverter parameter.

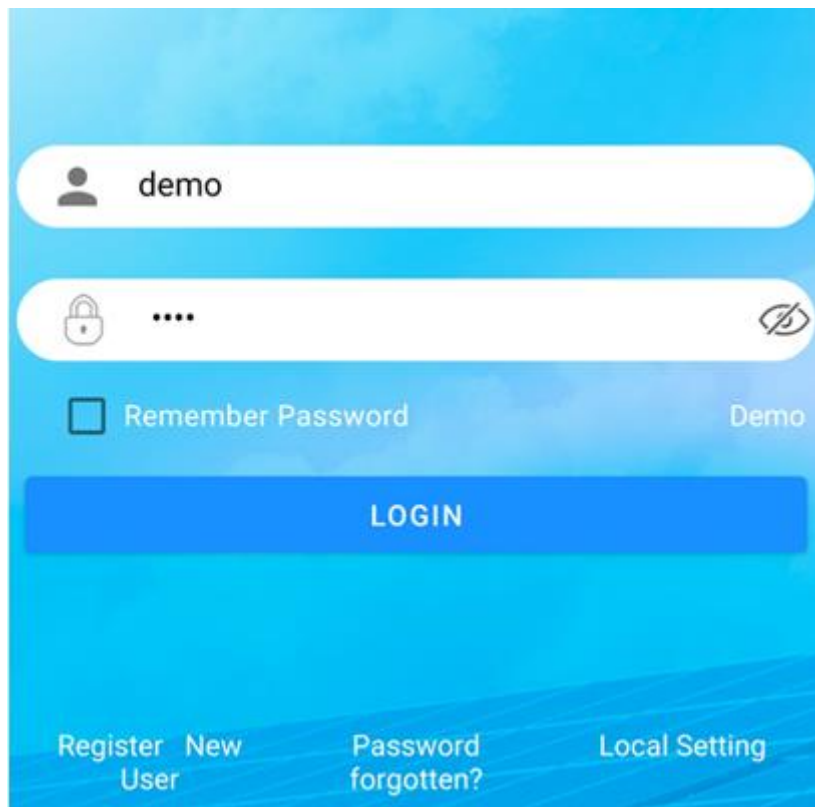


### 3. Cloud

#### 4.1 Account Registration to Cloud

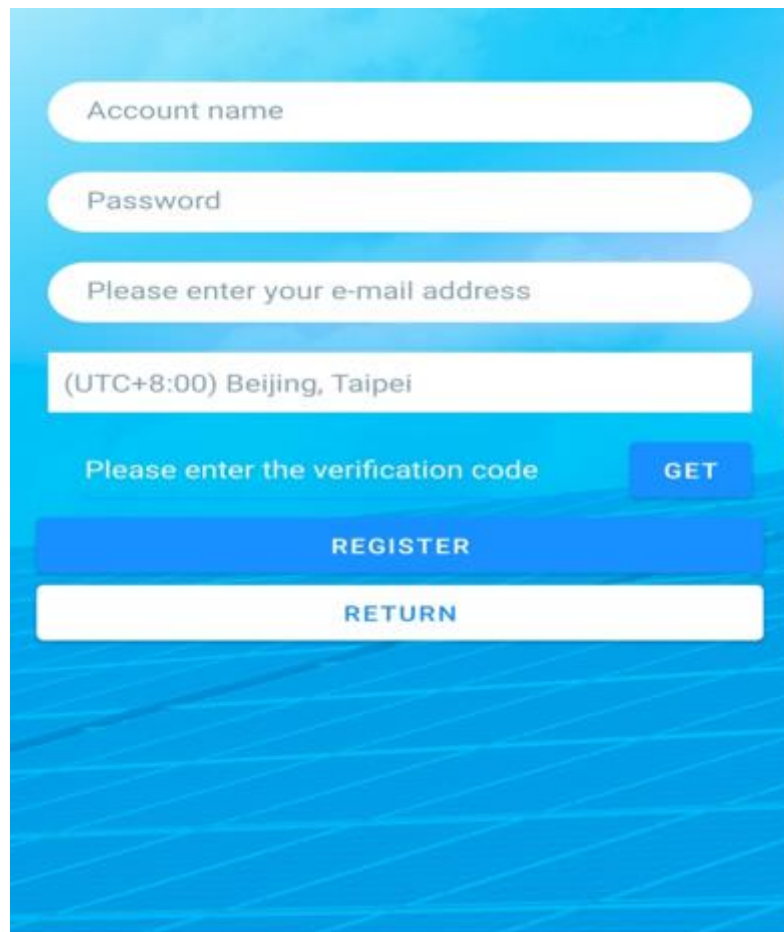
##### 4.1.1 Cloud Login Page

Open the APP to visit cloud login page.

A screenshot of a mobile application's cloud login page. The background is a light blue gradient with a subtle wave pattern at the bottom. The login form consists of two white rounded rectangular input fields. The first field contains a person icon and the text 'demo'. The second field contains a lock icon, four dots for a password, and a toggle icon (an eye with a diagonal line) on the right. Below the password field is a checkbox labeled 'Remember Password' and a 'Demo' link. A large blue button with the text 'LOGIN' in white is centered below the form. At the bottom, there are four links: 'Register New User', 'Password forgotten?', and 'Local Setting'.

### 4.1.2 Creating New User Account

**Step 1** Click on “**Register New User**” on the home page of Cloud.



The image shows a registration form on a blue background. The form consists of several input fields and buttons. The first three fields are labeled 'Account name', 'Password', and 'Please enter your e-mail address'. The fourth field is labeled '(UTC+8:00) Beijing, Taipei'. Below these fields is a label 'Please enter the verification code' and a blue button labeled 'GET'. At the bottom of the form are two large buttons: a blue one labeled 'REGISTER' and a white one labeled 'RETURN'.

**Step 2** Enter a name for your cloud account.

**Step 3** Enter a password for your cloud account. It is recommended to keep a record of the password for future reference.

**Step 4** Enter an email address for future communication from Cloud. (If you don't receive the confirmation mail (sent from our server) after 10 minutes, you may need checking in the junk box.)

**Step 5** Choose the time zone you need. The default is (UTC+8:00) Beijing, Taipei, Kuala Lumpur.

**Step 6** Press **GET** icon to get verification code

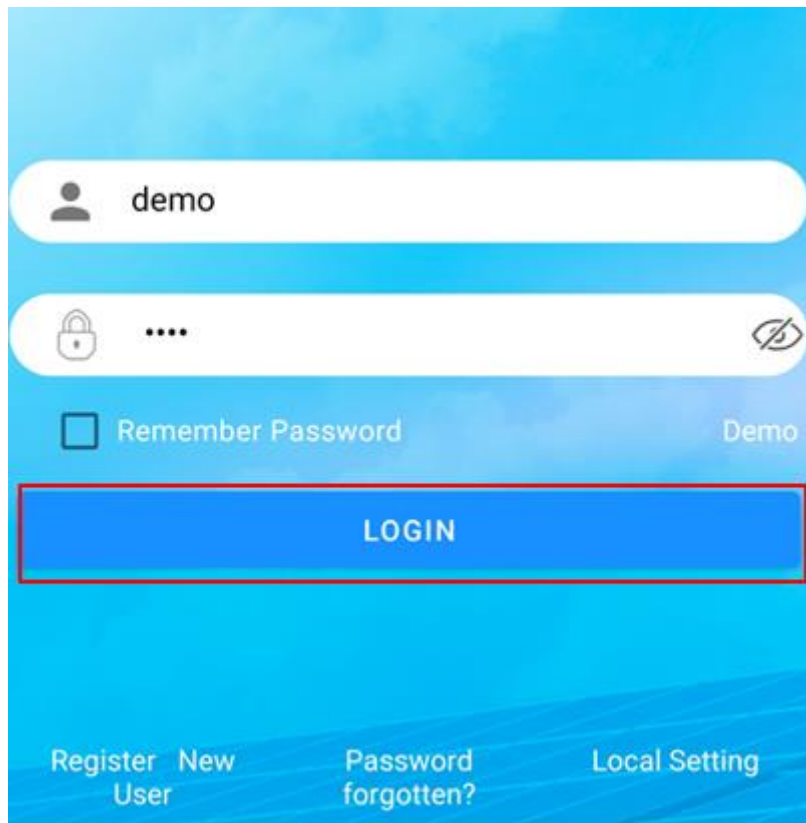
**Step 7** Press **Register** icon to complete registration of the new user account.

**Step 8** Follow the instructions stated in the confirmation email to complete the registration and activate your Cloud user account.

## 4.2 Logging in to Cloud

### 4.2.1 Logging in to System

Follow the steps below to login the Cloud system.

A login form with a blue background. It features two input fields: the first contains the text 'demo' next to a user icon, and the second contains four dots next to a lock icon and a toggle icon. Below these is a checkbox labeled 'Remember Password' and the text 'Demo'. A large blue button labeled 'LOGIN' is highlighted with a red border. At the bottom, there are four links: 'Register New User', 'Password forgotten?', and 'Local Setting'.

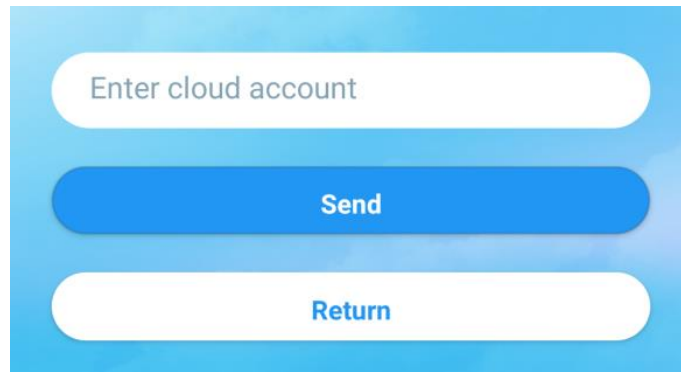
**Step 1** Enter your cloud account name.

**Step 2** Enter your password.

**Step 3** Click on **Login** icon to log in to your Cloud account.

### 4.2.2 Forgot Your Password?

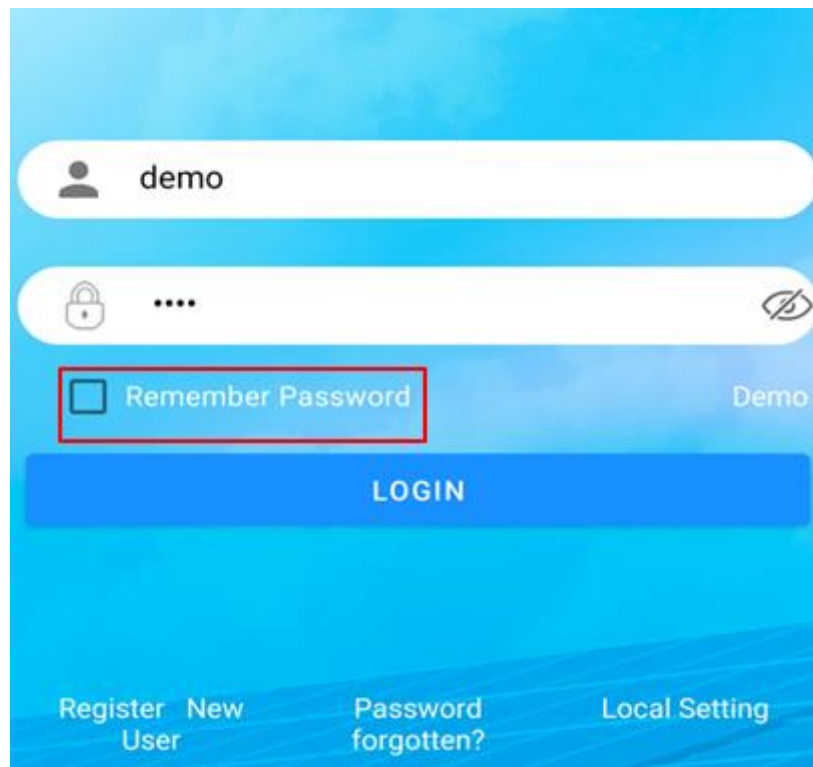
**Step 1** Click on Forget Password icon (see the preceding pic.) to proceed and retrieve your password.



**Step 2** Enter your cloud account name created while registering on Cloud.

**Step 3** Click on **Send** icon (as shown in the preceding pic.). Then an email with your original password will be delivered to you within one minute. Please follow the instructions you received to proceed.

#### 4.2.3 Remember Password



**Step 1** Enter your cloud account name.

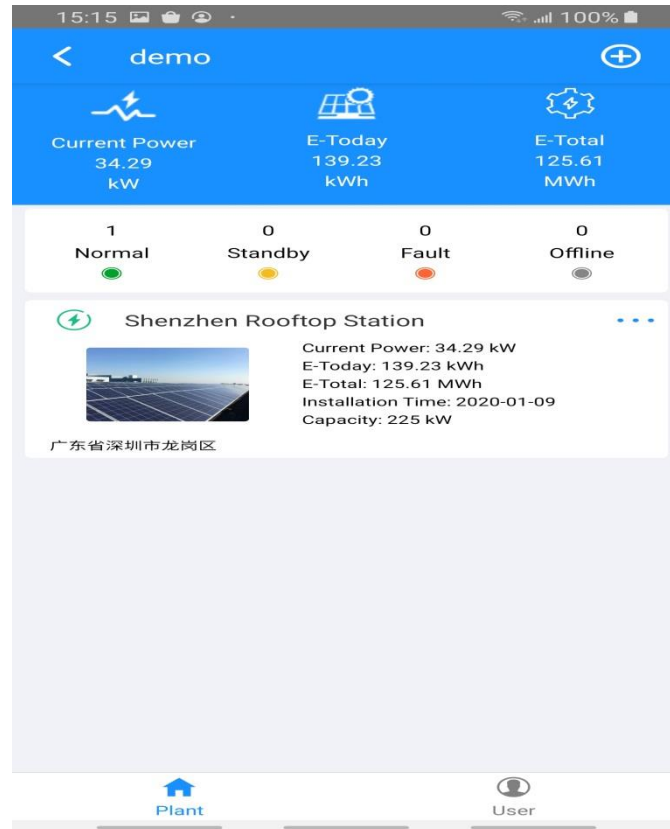
**Step 2** Enter your password.

**Step 3** Check the Remember Password box.

**Step 4** When you return to the login interface next time, there is no need to enter the password

## 4.3 Cloud System





### 4.3.1 Homepage



After login you will see the Home page. This page shows all the plants in the account.


#### ■ Plant List

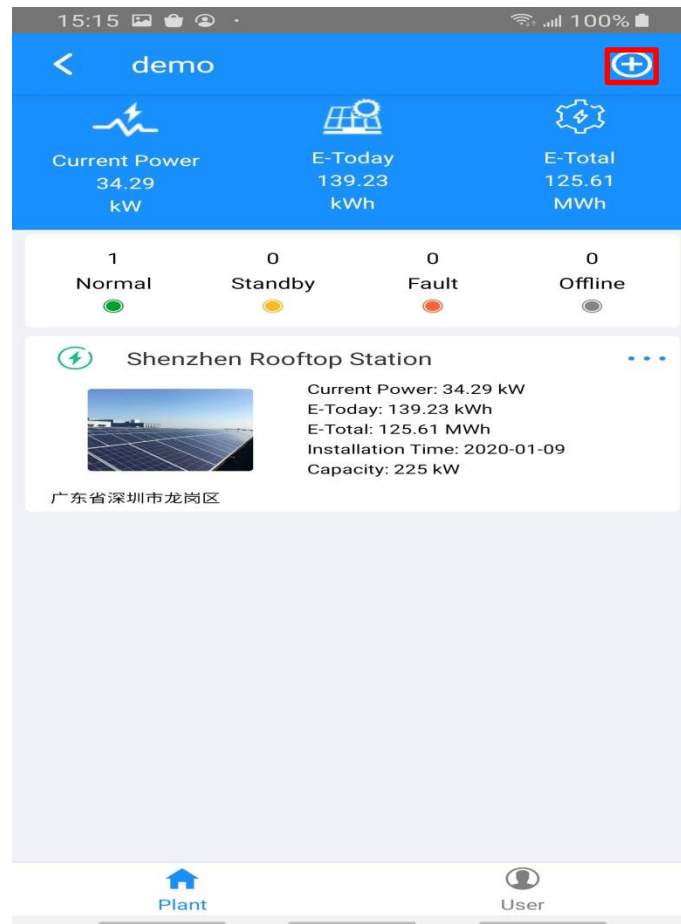
##### ➤ Status

Colors				
Description	Normal (Inverter generate power normally )	Standby (Inverter do not generate power)	Fault (inverter failure)	Communication Offline

- Plant name: The name of the plant.
- Plant photo: The photo of the plant.
- Current power: The current output power for all the inverters in this plant.
- E-Today: The sum of PV generating capacity of today for all inverters in this plant.
- E-Total: The total power generated for all the inverters in this plant.
- Installation Time: The earliest device installation time in this plant.
- Capacity: The total capacity for all devices in this plant. You can set the capacity in plant edited page
- Address: The address and the zip code of the plant.

## ■ Add Plant

Press  icon in the upper right corner to jump to the “New power station” page ( as shown below ).



15:19 100%

< New power station

Power Plant Please enter a name

Address Please enter an address


Capacity 0 kW

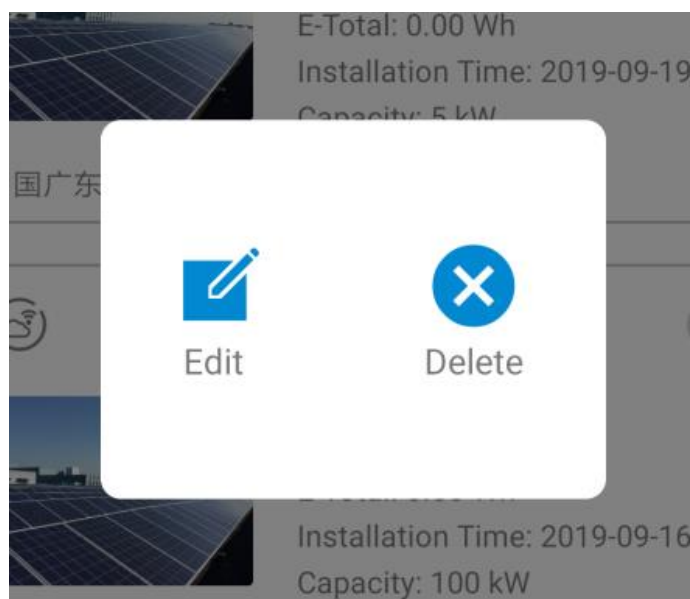
Installation Time 2021-06-09

CONFIRM

- Plant name: Enter a name for this plant.
  - Address: Enter the address of your plant.
  - Capacity: Enter the capacity of your plant.
  - E-Total base: If the inverter is changed, please enter the power generation history in this field.
  - Installation time: Choose the 1st inverter installation time for this plant.
- Press **Confirm** to complete adding.

■ Edit Plant


Press  button to edit or delete plant. You can choose Edit or Delete in the image below.



Press **Edit** icon to edit plant

15:23 100%

< Plant

Power Plant	Plant
Address	Please enter an address
Capacity	4 kW
Installation Time	2021-04-13 

CONFIRM

- Plant name: Edit the name of your plant.
  - Address: Edit the address of your plant.
  - Capacity: Edit the capacity of your plant.
  - E-Total base: Edit the power generation in this field.
  - Installation time: Edit the 1st inverter installation time for this plant.
- Press **Confirm** to complete editing.

■ Delete Plant

Press **Delete** icon to delete plant. You need to confirm what you do. The current page will be refreshed after the deletion is completed.

## Remove power station

Whether to delete the power station?

CANCEL

OK

## 4.3.2 Plant Information

### 4.3.2.1 Overview

Press the box of the plant to visit the plant page ( as shown below ).



The functions shown on the page are described as follows: .

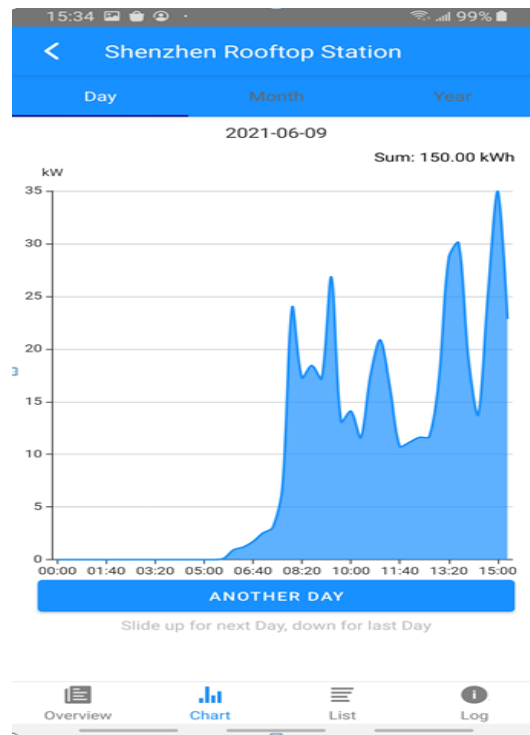
- Current Power: The current output power for all the inverters in this plant.
- E-Today: The sum of PV generating capacity of today for all inverters in this plant.
- EqHour: It is the ratio of the capacity of the panel module device and actual power generated.
- Money:  $\text{Money} = \text{E-Today} \times \text{Electrical Price}$ .
- E-Total: The total power generated for all the inverters in this plant.
- H-Total: The total running time for all the inverters in this plant.
- Capacity: The total capacity for all devices in this plant.
- Reduce CO<sub>2</sub>: It is the carbon emission saved after the power is generated by the inverter.
- Address: It is the address of this plant.

#### 4.3.2.2 Plant Chart

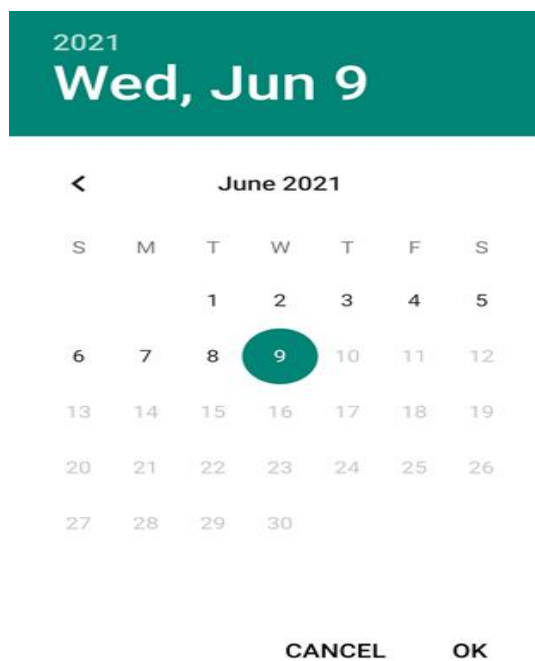
This page shows the data curve of energy generation (including Daily, Monthly and Annual format)

1. Query(Daily) Data

It will show the Daily power Generation Curve (as shown in the Figure below). You can slide up for the next day and slide down for last day.

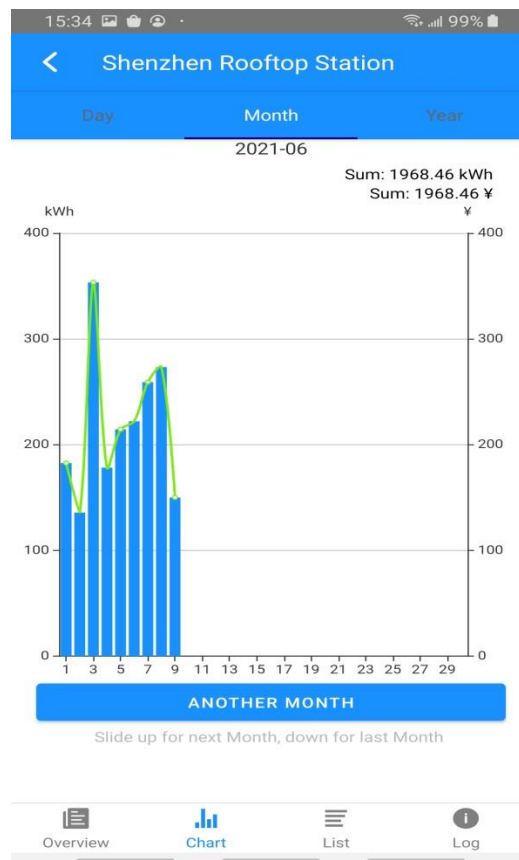


You can also press **Another Day** to choose the day which you want to check. (as shown in the Figure below)



## 2. Query (Monthly) Data

Select the **Month** option to jump to the month data page. (as shown in the Figure below). You can slide up for the next month and slide down for last month.



This page displays the energy and the money.

You can also press **Another Month** to choose the month which you want to view. (as shown in the Figure below)

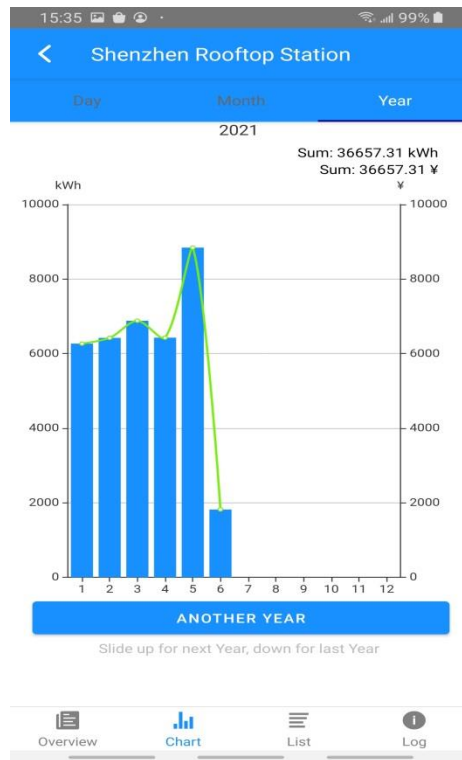
Firstly, choose the year you need, then choose the month.

The figure shows two sequential selection dialogs. The first dialog, titled 'Please choose a year', displays a vertical list of years from 2012 to 2021. At the bottom right of this dialog is a 'CANCEL' button. The second dialog, titled 'Please choose a month', displays a vertical list of months from January to October. At the bottom right of this dialog is a 'CANCEL' button.

### 3. Query (Yearly) Data

Select the **Year** option to jump to the year data page. (as shown in the Figure below).

You can slide up for the next year and slide down for last year.



This page displays the energy and the money.

You can also press **Another Year** to choose the year which you want to view. (as shown in the Figure below)

Please choose a year

2012

2013

2014

2015

2016

2017

2018

2019

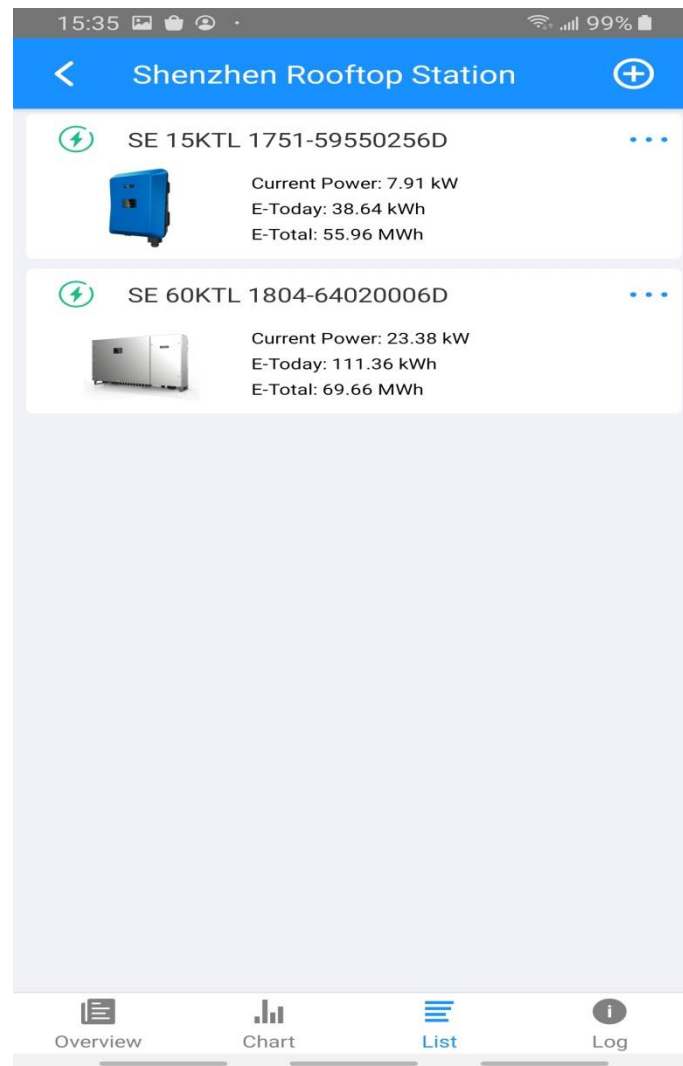
2020

2021

CANCEL





#### 4.3.2.3 Device List

Press **List** to jump to the device list page. This page shows all the devices in this plant.




The functions shown on the page are described as follows:

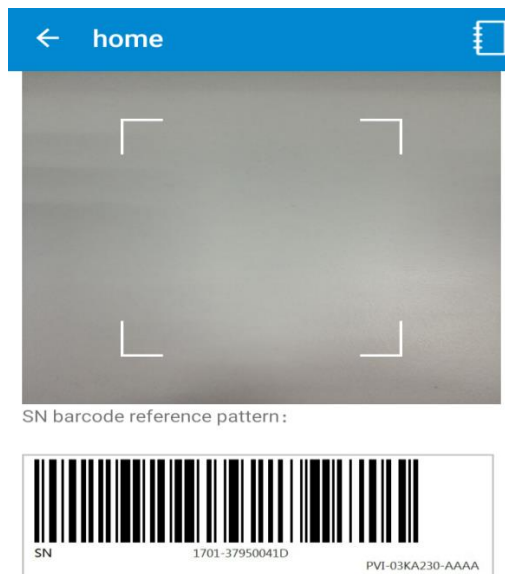
➤ **Status**

Colors	Green 	Yellow 	Red 	Grey 
Description	Normal (Inverter generate power normally )	Standby (Inverter do not generate power)	Fault (inverter failure)	Communication Offline

- Name: Inverter name. Default name is type + serial number.
- Current power: The current output power for the inverter
- E-Today: The sum of PV generating capacity of today for the inverter
- E-Total: The total power generated for the inverter

## ■ Add Device


Press  icon to jump to the add device page ( as shown below ).

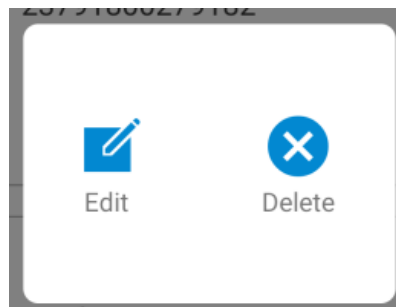


It will call your camera. You can scan your SN barcode to add your device.

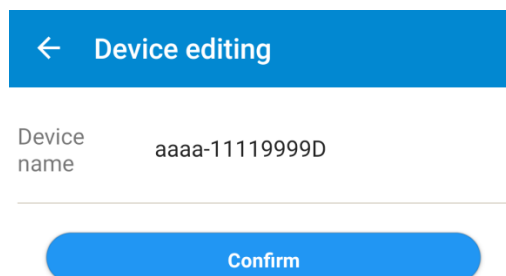
There is a SN barcode reference pattern on the bottom of the page

## ■ Edit Device

Press  button to edit or delete plant. You can choose Edit or Delete in the image below.



Press **Edit** icon to edit device



➤ Device name: Edit the name of your plant.

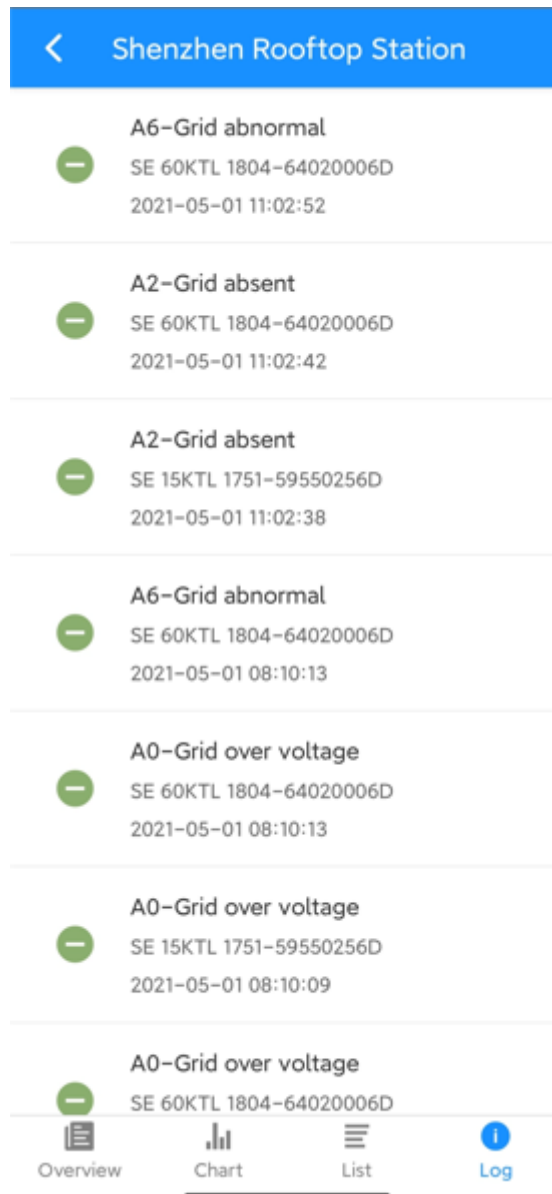
Press **Confirm** to complete editing.

■ Delete Device

Press **Delete** icon to delete device. The current page will be refreshed after the deletion is completed.

#### 4.3.2.4 Plant Log

Press **Log** to jump to the log page. It contains all the logs for all inverters in this plant.



Click the alarm name to pop up the alarm explanation and suggestion.

## A0-Grid over voltage

The grid voltage exceeds the allowable range

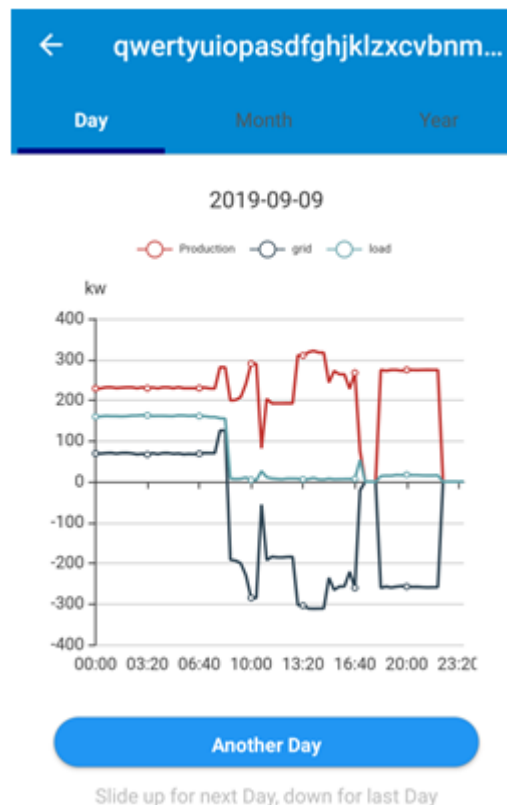
1. If the alarm occurs occasionally, it means the grid abnormal, the inverter can automatically recover to normal operating status after the grid return normal.
2. If the alarm occurs repeatedly and it can automatically recover, need to contact local electric power department to get permission to modify the inverter grid protection parameters with APP.
3. If the alarm occurs repeatedly for a long time, please confirm
  - 1) If the output breaker is closed?
  - 2) If the output terminal is ok?
  - 3) If the output cable follow the User Manual guidance?

### 4.3.2.5 Load Monitoring

(Note: This function is available only when user installs the V1000+ and G2000 module in the power plant).

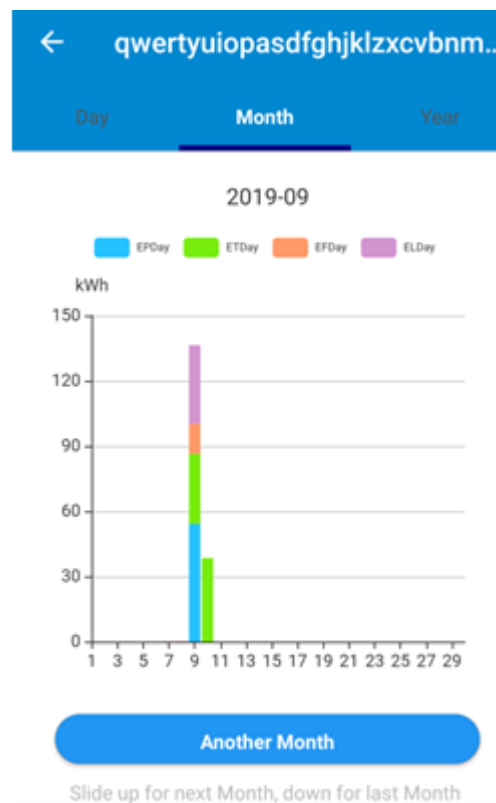
The plant power generation chart as the graphic shown below.

a. Query (Daily) Data



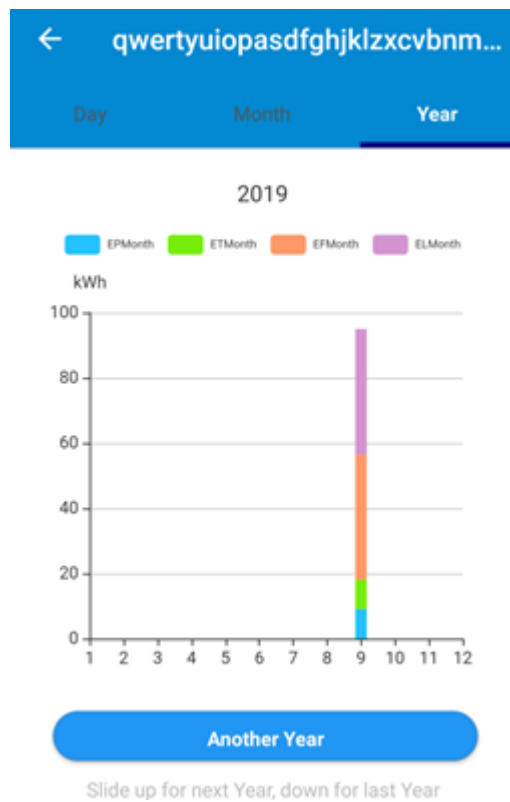
- Production: It is the output power for the inverters in this plant.
- load: It is the power consumed by the load.
- grid: It is the power delivered to the grid (expressed as a positive value) or the power consumed from the grid (expressed as a negative value).

b. Query (Monthly) Data



- EPDay: It is the energy generated by the inverters every day of the month.
- ELDay: It is the energy consumed by the load every day of the month.
- ETDay: It is the energy delivered to the grid every day of the month.
- EFDay: It is the energy consumed from the grid every day of the month.

c. Query (Yearly) Data



- EPMonth: It is the energy generated by the inverters every month of the year.
- ELMonth: It is the energy consumed by the load every month of the year.
- ETMonth: It is the energy delivered to the grid every month of the year.
- EFMonth: It is the energy consumed from the grid every month of the year.

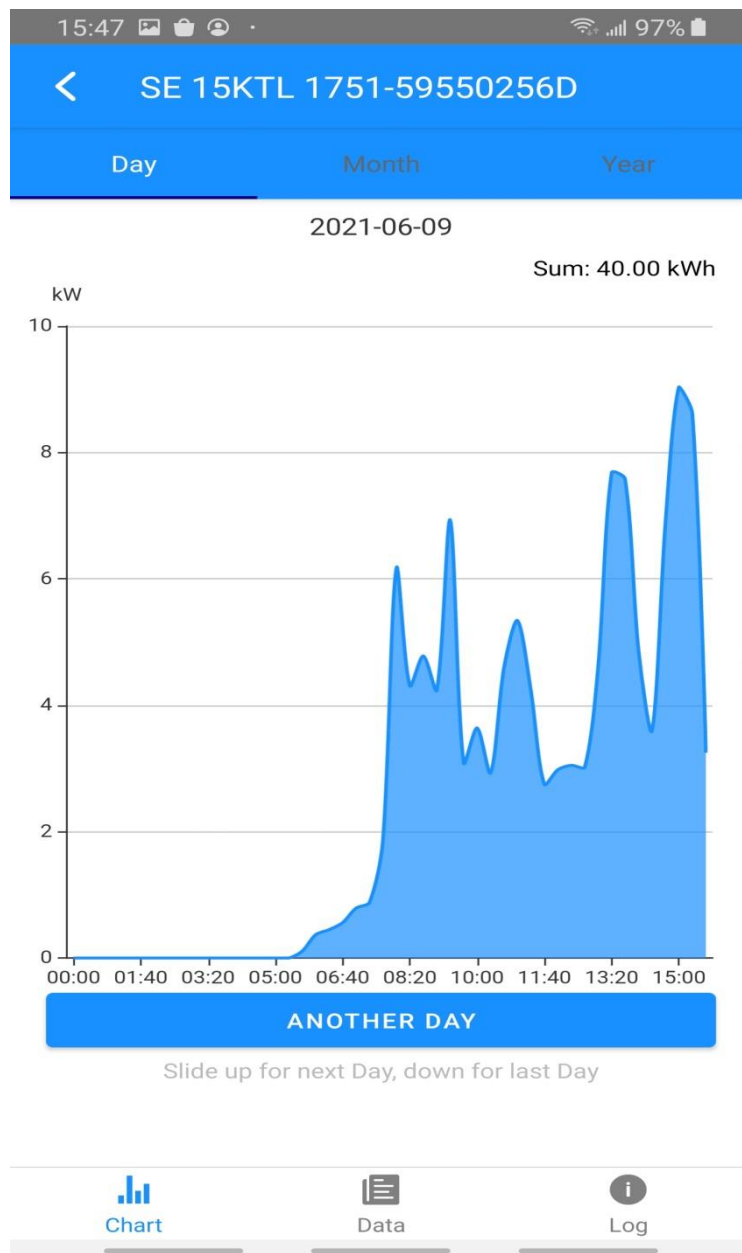
### 4.3.3 Device Information

#### 4.3.3.1 Device Chart

This page shows the data curve of energy generation (including Daily, Monthly and Annual format)

1. Query(Daily) Data

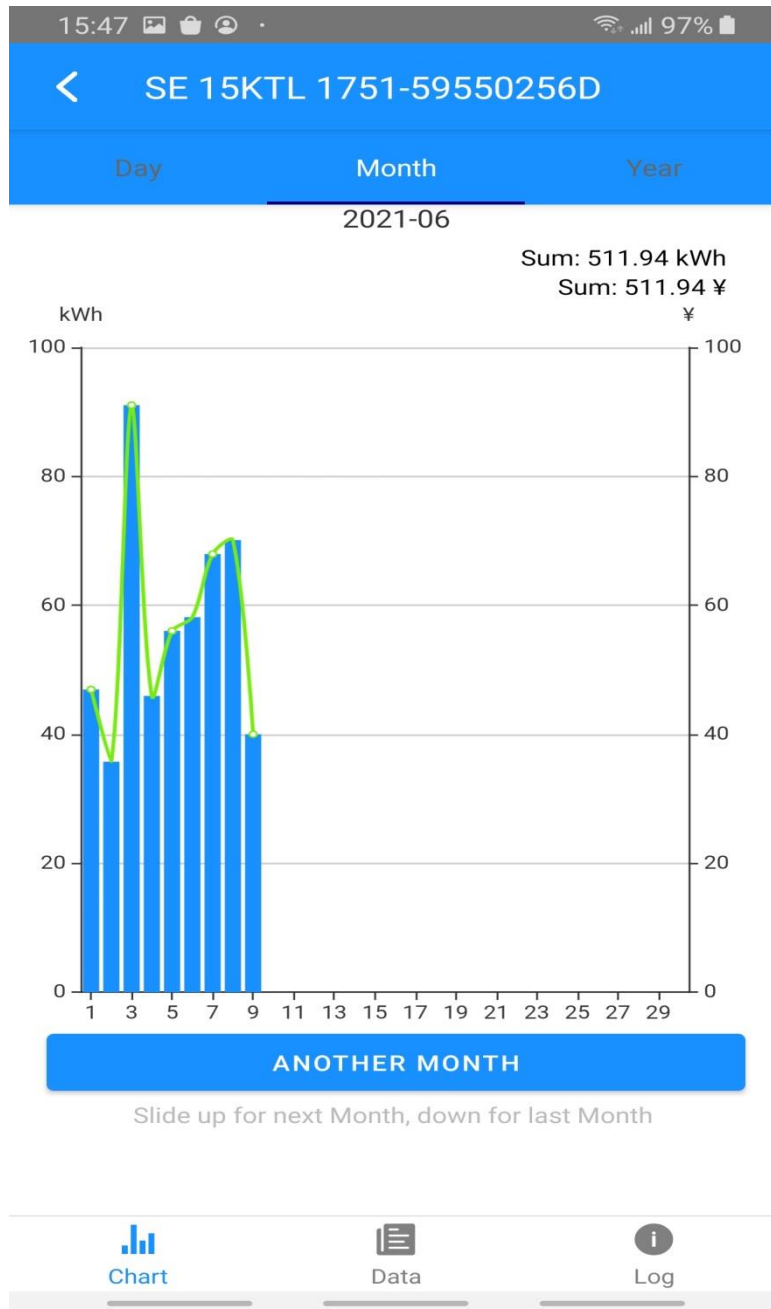
It will show the Daily power Generation Curve (as shown in the Figure below). You can slide up for the next day and slide down for last day.



You can also press **Another Day** to choose the day which you want to check. (The operation is similar to 3.2.2)

2. Query ( Monthly ) Data

Select the **Month** option to jump to the month data page. (as shown in the Figure below). You can slide up for the next month and slide down for last month.

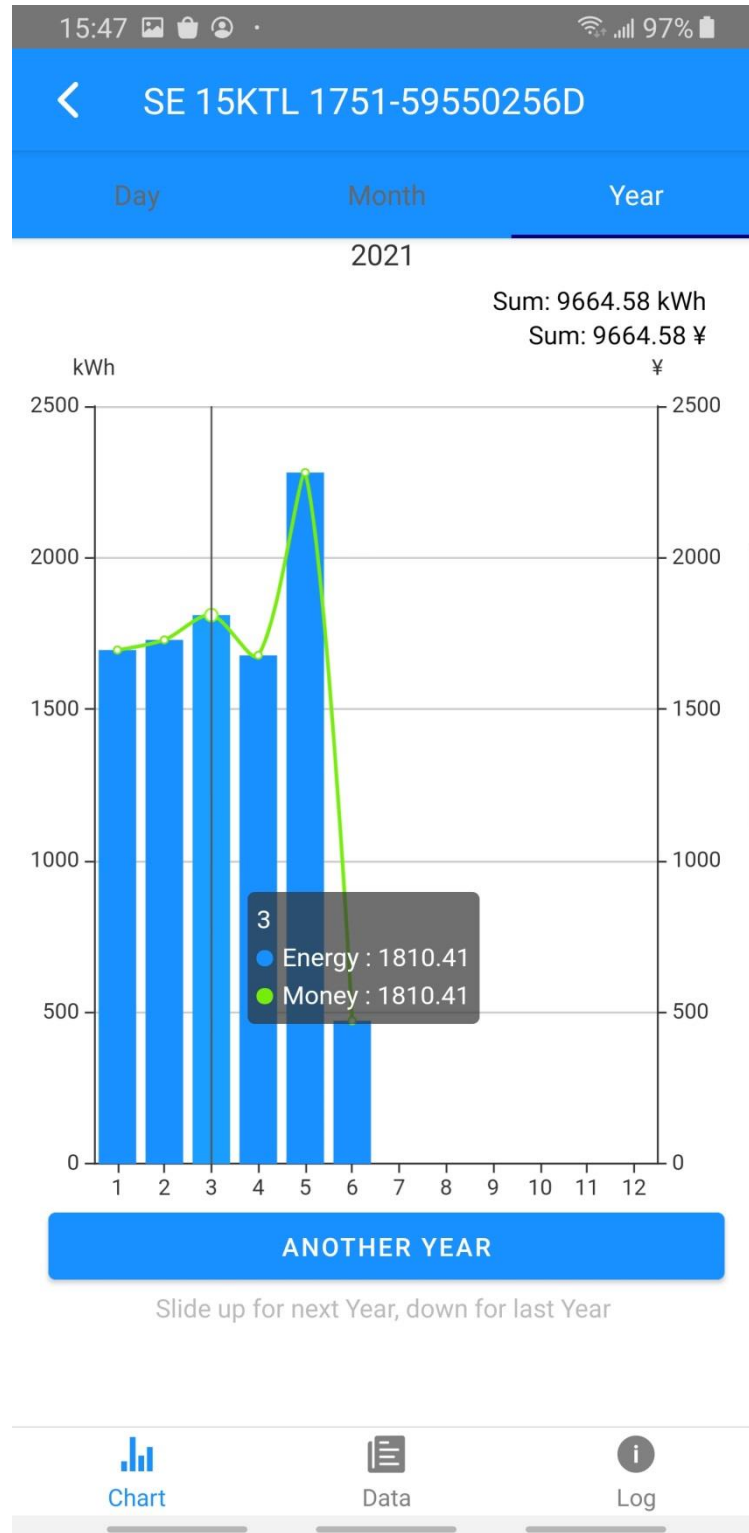


You can also press **Another Month** to choose the month which you want to view. Firstly, choose the year you need, then choose the month. (The operation is similar to 3.2.2)

3. Query ( Yearly ) Data

Select the **Year** option to jump to the year data page. (as shown in the Figure below).

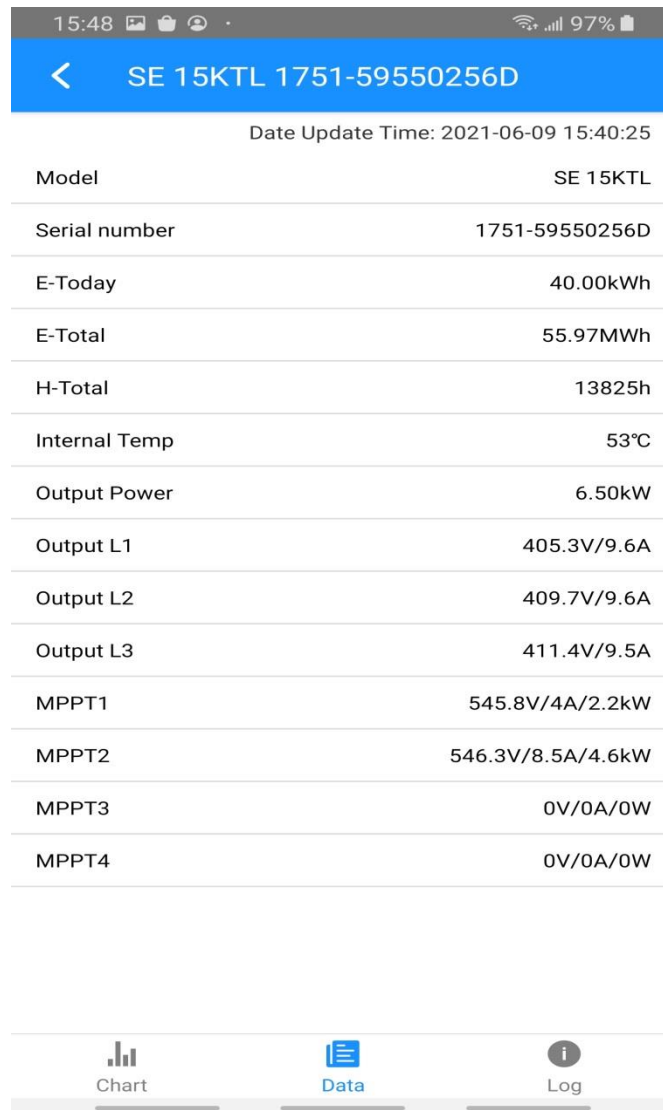
You can slide up for the next year and slide down for last year.



You can also press **Another Year** to choose the year which you want to view. (The operation is similar to 3.2.2)

#### 4.3.3.2 Device Data

This page shows the basic information of the device.



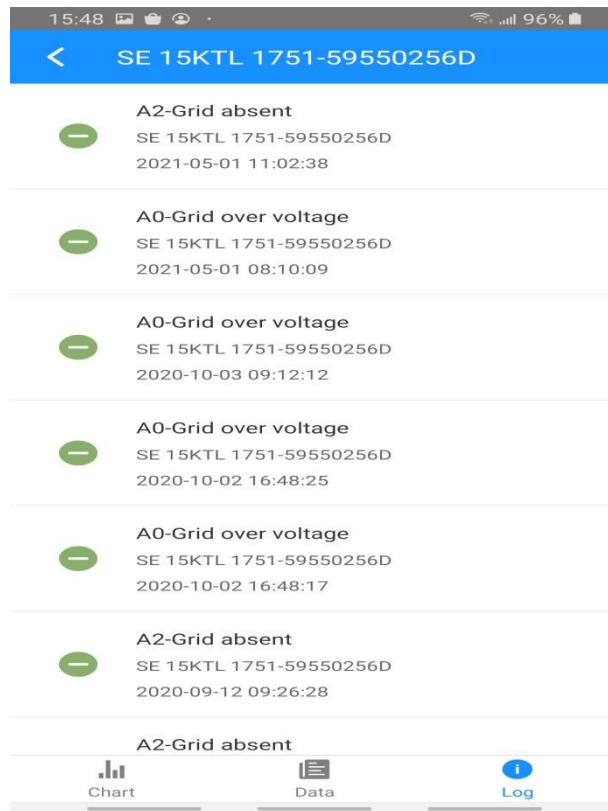
Date Update Time: 2021-06-09 15:40:25	
Model	SE 15KTL
Serial number	1751-59550256D
E-Today	40.00kWh
E-Total	55.97MWh
H-Total	13825h
Internal Temp	53°C
Output Power	6.50kW
Output L1	405.3V/9.6A
Output L2	409.7V/9.6A
Output L3	411.4V/9.5A
MPPT1	545.8V/4A/2.2kW
MPPT2	546.3V/8.5A/4.6kW
MPPT3	0V/0A/0W
MPPT4	0V/0A/0W

The functions shown on the page are described as follows: .

- Model: The model of the device.
- Serial number: The serial number of the device.
- Output Power: The output power for the inverter
- E-Today: The sum of PV generating capacity of today for the inverter.
- E-Total: The total power generated for the inverter.
- H-Total: The total running time for the inverters
- Internal Temp: It is the internal temperature of the inverter.
- Output: It includes the voltage, current, and output power.
- MPPT: It includes the voltage, current, and input power.

#### 4.3.3.4 Device Log

Press **Log** to jump to the log page. It contains all the logs for this inverter.



Click the alarm name to pop up the alarm explanation and suggestion.

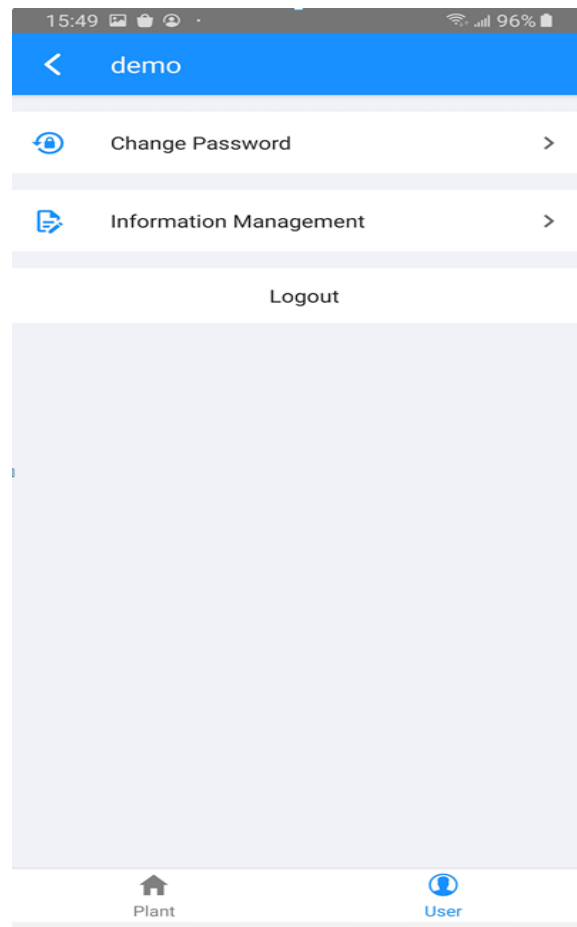
### A0-Grid over voltage

The grid voltage exceeds the allowable range

1. If the alarm occurs occasionally, it means the grid abnormal, the inverter can automatically recover to normal operating status after the grid return normal.
2. If the alarm occurs repeatedly and it can automatically recover, need to contact local electric power department to get permission to modify the inverter grid protection parameters with APP.
3. If the alarm occurs repeatedly for a long time, please confirm
  - 1) If the output breaker is closed?
  - 2) If the output terminal is ok?
  - 3) If the output cable follow the User Manual guidance?

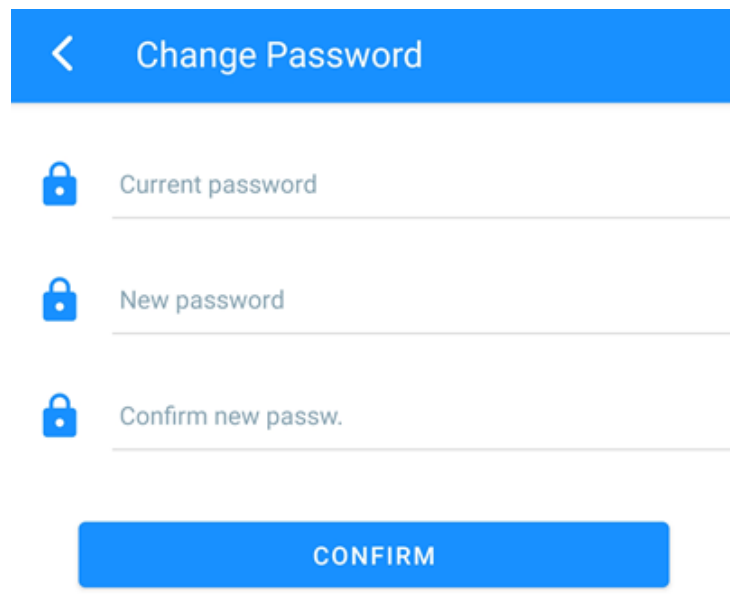
#### 4.3.4 Account

Press **User** to go to account page.



#### 2.3.4.1 Change Password

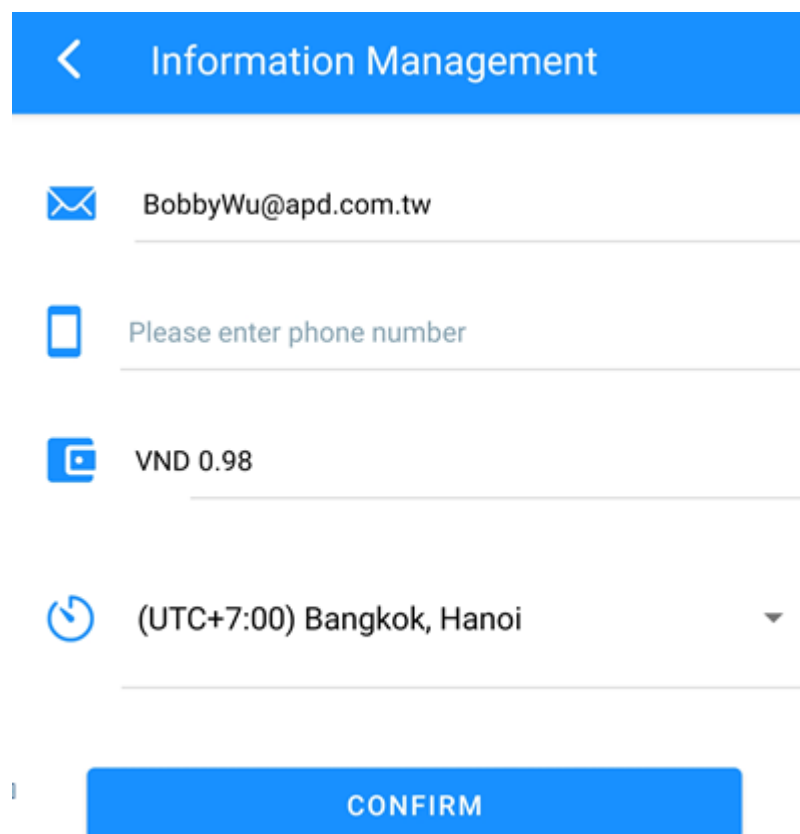
Press **Change Password** icon.



The image shows a mobile app screen for changing a password. At the top is a blue header bar with a white back arrow and the text "Change Password". Below the header are three input fields, each preceded by a blue padlock icon. The first field is labeled "Current password", the second "New password", and the third "Confirm new passw.". At the bottom of the form is a blue button with the text "CONFIRM" in white capital letters.

You can change the login account password in this page.

#### 2.3.4.3 Information Management



The image shows a mobile app screen for managing user information. At the top is a blue header bar with a white back arrow and the text "Information Management". Below the header are four input fields. The first field has an envelope icon and contains the email "BobbyWu@apd.com.tw". The second field has a phone icon and is labeled "Please enter phone number". The third field has a currency icon and contains "VND 0.98". The fourth field has a clock icon and contains "(UTC+7:00) Bangkok, Hanoi" with a dropdown arrow on the right. At the bottom of the form is a blue button with the text "CONFIRM" in white capital letters.

- Register Mail: The mailbox you use for account registration.
- Contact Phone: You can enter contact user phone number.
- Time zone: Choose the time zone you need. The default is (UTC+8:00) Beijing, Taipei, Kuala Lumpur.

## 4. Local Setting

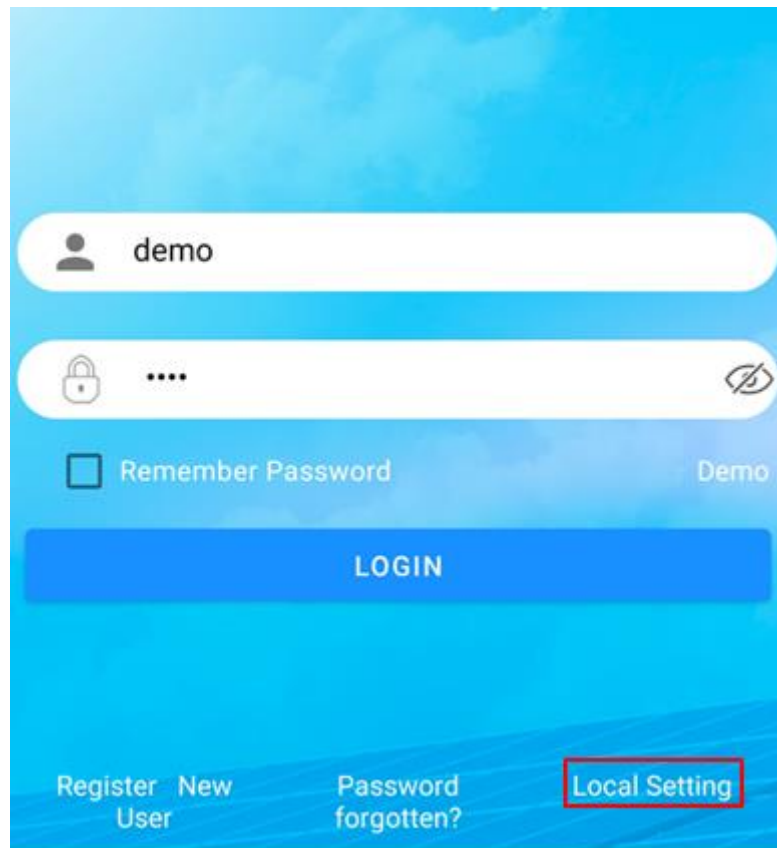
### 4.1 Access Permission

Before using the local setting, the APP should access some permissions. ( You can allow them when you install the APP or grant permissions in your own phone setting. )

When the APP asks for permission, please click Allow.

### 4.2 Connect Inverter

Firstly, open the Bluetooth on your own phone, then open the APP.



Press **Local Setting** to go to the connect page. This page shows the inverters which you can connect or you have connected. ( As shown below )

Inverter List	Inverter List
New inverters	New inverters
BLE0411	No new device...
Connected inverters	Connected inverters
No connected device...	BLE0411

Scanning new devices...

Return

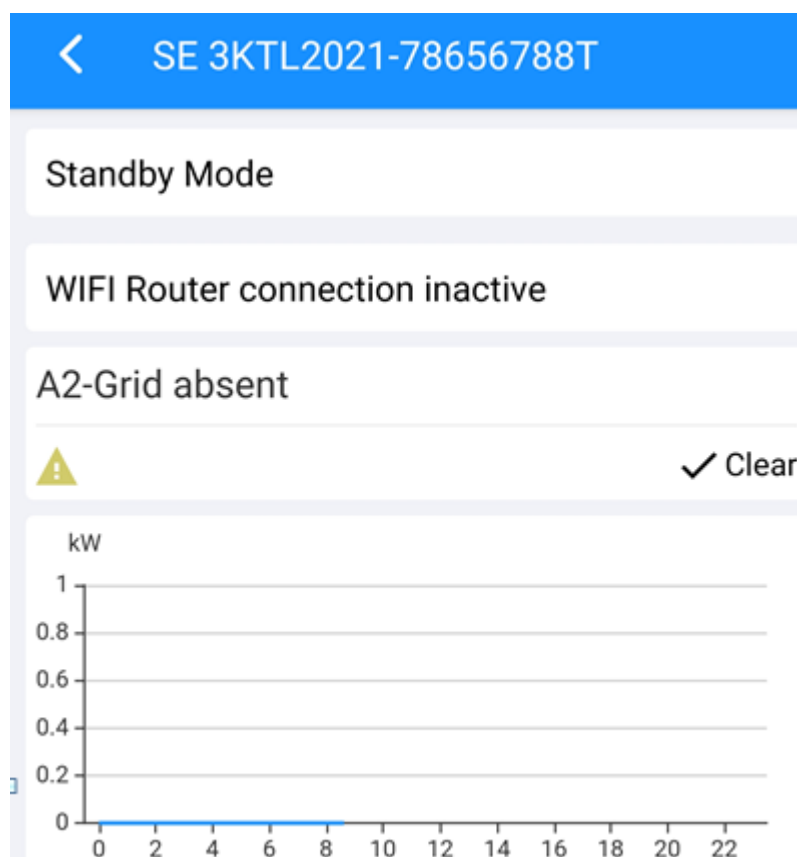
Scanning new devices...

Return

Press the inverter's name to connect it.

### 4.3 Local Setting Homepage

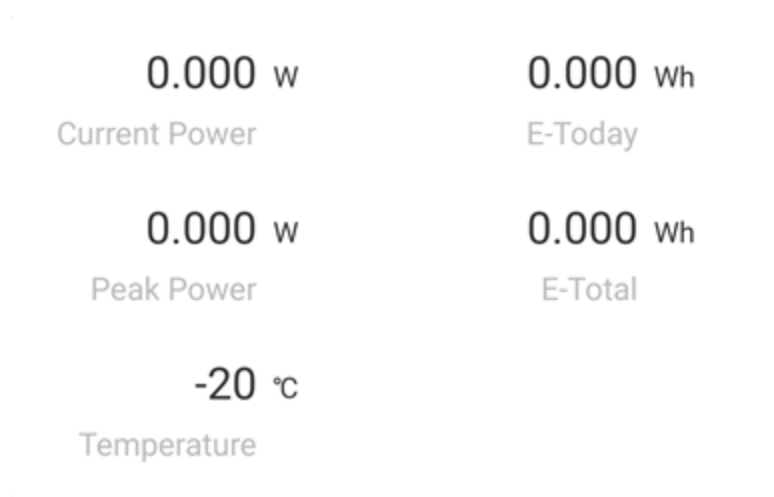
This page shows the basic information of inverter.



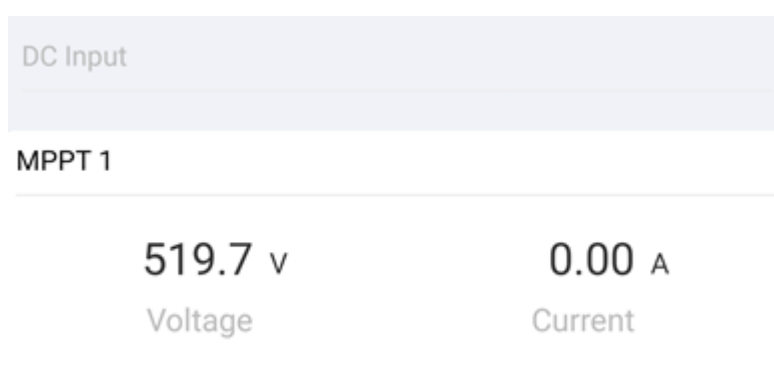
- Status:

Colors	Green	Yellow	Red	Grey
Description	Normal (Inverter generate power normally )	Standby (Inverter do not generate power)	Fault (inverter failure)	Communication Offline

- Warning notice: It is the notice about warning.  
You can press **Clear** to clear the notice.
- Chart: The data curve of daily power generation.



- Current power: The current output power for the inverter.
- Today Energy: The sum of PV generating capacity of today for the inverter.
- Peak power: The peal power of today for the inberter.
- Total Energy: The total power generated for the inverter.
- Temperature: It is the internal temperature of the inverter.

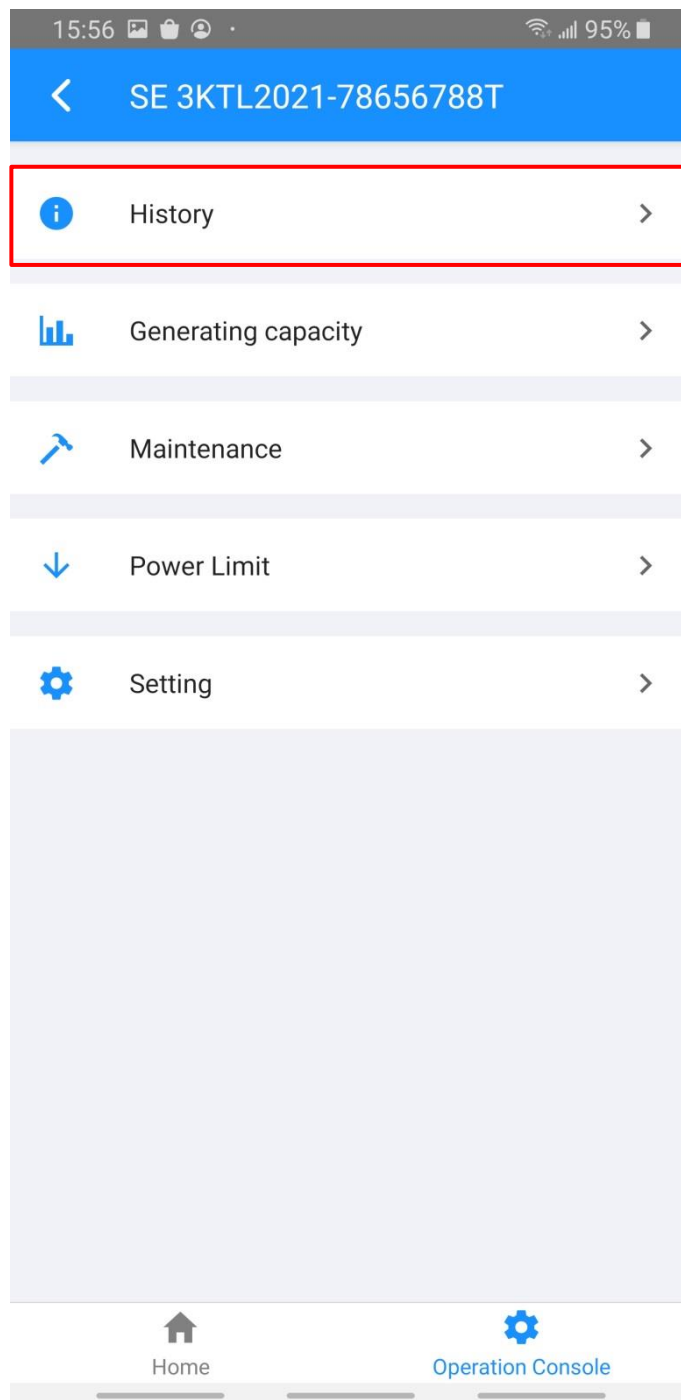


It is DC input form, include voltage and current.

AC Output	
0.0 v Voltage L1	0.00 A Current L1
0.00 PF Power Factor	0.00 Hz Output Frequency
0.000 w Active Power	0.000 Var Reactive Power


It is AC output form, include voltage, current, Power Factor, Output Freq, Active Power, Reactive Power.

#### 4.4 History Log




Press **Operation Console** at first and then Press **History** to go to the history log page ( as shown below ). It contains all the logs for the inverter.


 History

 A2-Grid absent  
2021-06-03 14:42:15  
Active

 A2-Grid absent  
2021-05-30 13:25:11  
Active

 A2-Grid absent  
2021-05-29 11:17:51  
Active

 A2-Grid absent  
2021-05-24 16:07:36  
Active

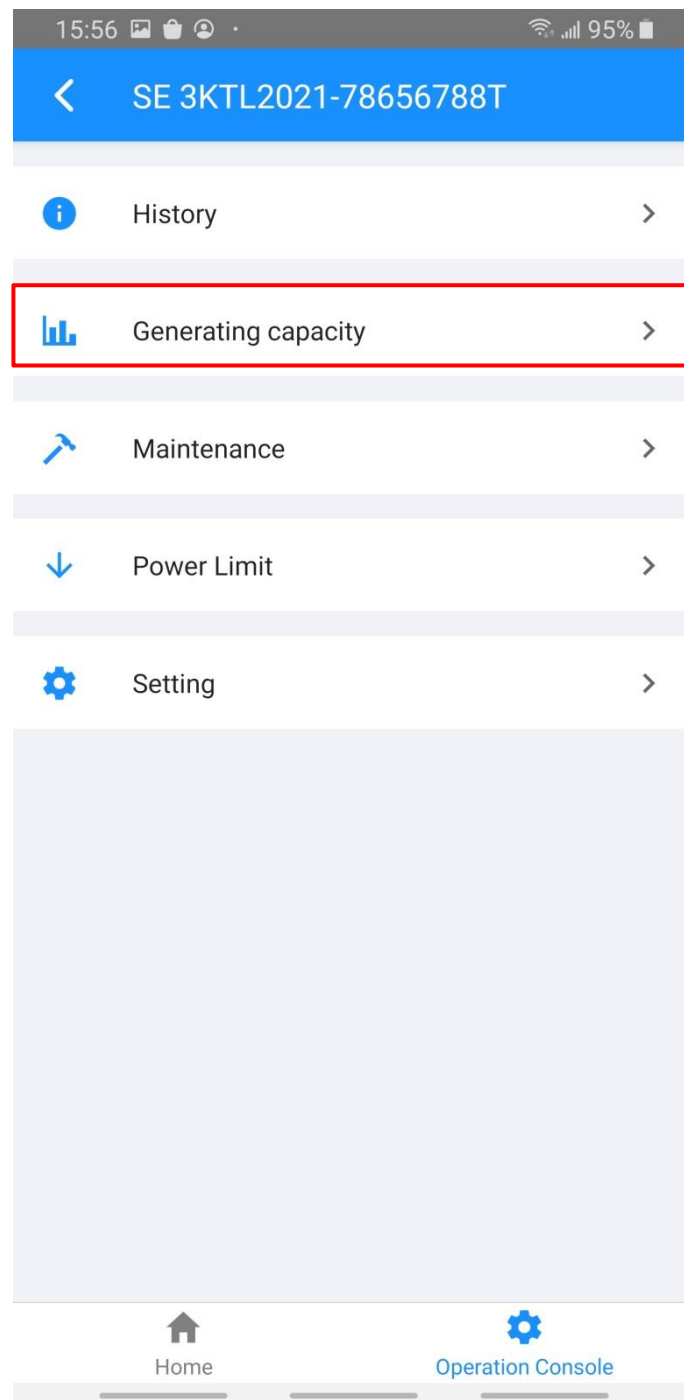
 A2-Grid absent  
2021-05-24 15:54:58  
Active

 A2-Grid absent  
2021-05-21 14:00:39  
Active

 A2-Grid absent  
2021-05-21 13:44:01  
Active

 A2-Grid absent  
2021-05-21 13:38:28  
Active

## 4.5 Generating capacity

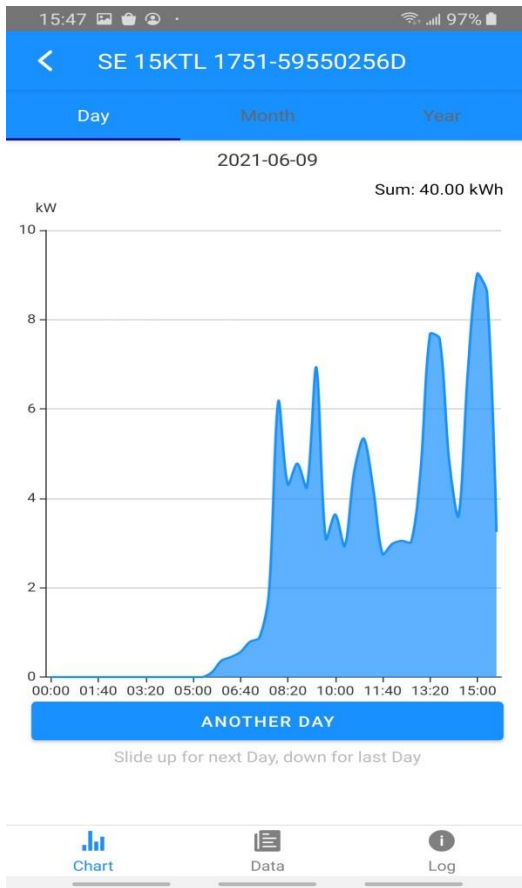


Press **Generating capacity** to go to the capacity page ( as shown below ).

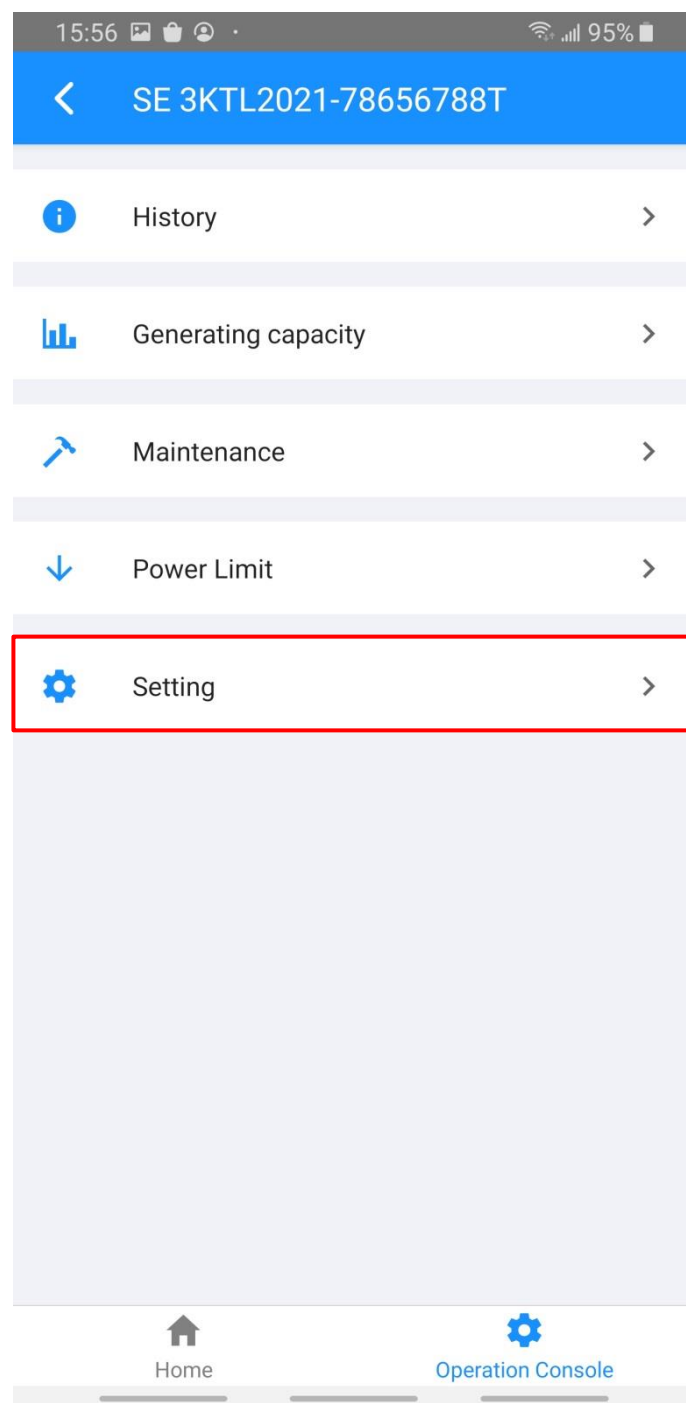
This page shows the data curve of energy generation (including Daily, Monthly and Annual format).

### 1. Query(Daily) Data

It will show the Daily power Generation Curve (as shown in the Figure below). You can slide up for the next day and slide down for last day. The monthly and annual charts are the same as before



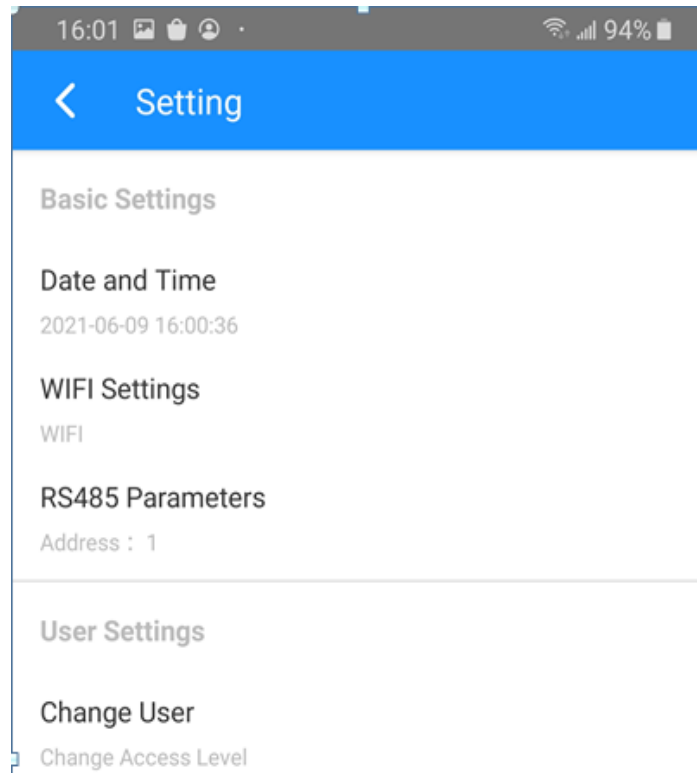
## 4.6 Setting




Press **Setting** to go to the setting page ( as shown below ).

#### 4.6.1 General User


The general user can view the basic settings.




- Date and Time: Inverter date and time.
- IP address: IP address for inverter WIFI
- ModBus: Include Address, Baud Rate, Protocol
- Switching user:  
You can change user mode in this page.

Enter administrator password 

Administrator password forgotten?

 LOGIN AS ADMINISTRATOR

 LOGIN AS GUEST

Enter administrator password to login as administrator.

#### 4.6.2 Administrator

This page shows all the settings.

##### 1. Setting Part1

---

### Basic Settings

#### Date and Time

2021-06-09 16:01:51

#### IP address

### WIFI Settings

WIFI

### RS485 Parameters

Address : 1

- Date and Time: Inverter date and time.
- IP address: IP address for inverter WIFI
- ModBus: Include Address, Baud Rate, Protocol

##### 2. Setting Part2

### User Settings

#### Change User

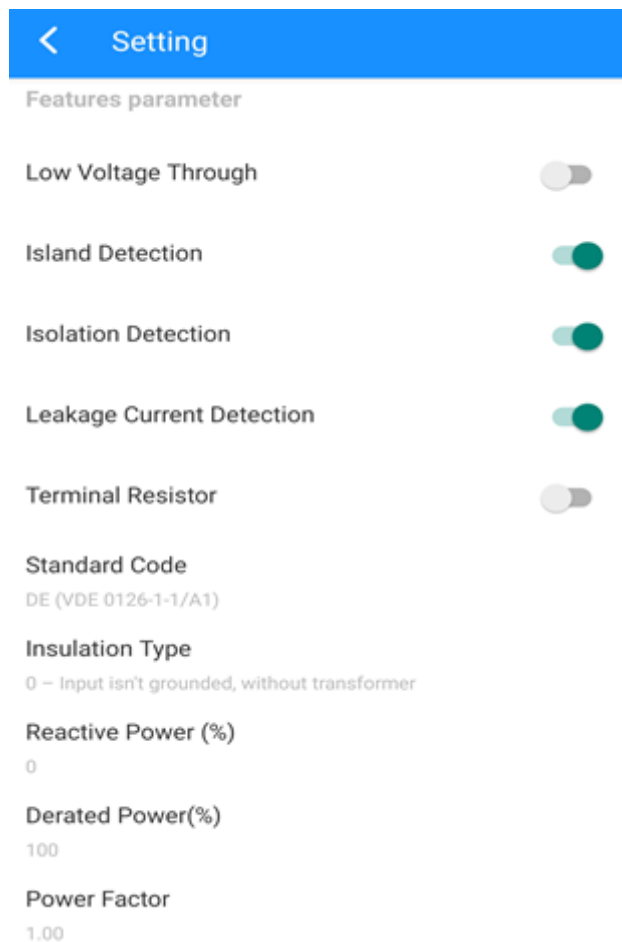
Change Access Level

#### Modify Login Password

Modify Administrator Password

- Switching user: Change user mode
- Modify password: Modify administrator password

### 3. Setting Part3



It shows the features parameter.

- Low Voltage Through: Enable/Disable low voltage through detection.
- Island Detection: Enable/Disable island detection.
- Isolation Detection: Enable/Disable island detection.
- Leakage Current Detection: Enable/Disable island detection.
- Match Resistance: Enter match resistance value
- Standard Code: Choose standard code for your region.
- Insulation Type: Choose insulation type.
- Reactive Power: Enter reactive power value.
- Derated Power: Enter derated power value.
- Power Factor: Enter power factor value.

#### 4. Setting Part4

Protection Parameter	
Insulation Impedance(k $\Omega$ )	1000
Reconnect Delay Time (s)	60
First Connect Delay Time(s)	60
Unbalanced Voltage Point(%)	0
Leakage Current Point(mA)	0
Moving Average Voltage Limit(V)	252

It shows protection parameter.

- Insulation impedance: Enter insulation impedance value.
- Reconnected time: Enter reconnect time value.
- Soft start time: Enter inverter soft start time value.
- Unbalanced voltage point: Enter leakage current alarm value.
- Leakage current point: Enter leakage current alarm value.

#### 5. Setting Part5

---

### Frequency Protection Level 1

Frequency High Loss Level\_1(Hz)

51.45

Frequency High Loss Time Level\_1(ms)

160

Frequency Low loss Level\_1(Hz)

47.55

Frequency Low loss Time Level\_1(ms)

160

---

### Frequency Protection Level 2

Frequency High Loss Level\_2(Hz)

99.9

Frequency High Loss Time Level\_2(ms)

9999

Frequency Low Loss Level\_2 (Hz)

0

Frequency Low Loss Time Level\_2(ms)

9999

It shows frequency protection

- Frequency High Loss Level 1: Enter frequency high loss level 1 alarm value.
- Frequency High Loss Time Level 1: Enter frequency high loss level 1 time value.
- Frequency Low Loss Level 1: Enter frequency low loss level 1 alarm value.
- Frequency Low Loss Time Level 1: Enter frequency low loss level 1 alarm value.
- Frequency High Loss Level 2: Enter frequency high loss level 2 alarm value.
- Frequency High Loss Time Level 2: Enter frequency high loss level 2 time value.
- Frequency Low Loss Level 2: Enter frequency low loss level 2 alarm value.
- Frequency Low Loss Time Level 2: Enter frequency low loss level 2 alarm value.

## 6. Setting Part6

### Voltage Protection Level 1

Voltage High Loss Level\_1(V)

262

Voltage High Loss Time Level\_1(ms)

160

Voltage Low Loss Level\_1(V)

187

Voltage Low Loss Time Level\_1(ms)

160

---

### Voltage Protection Level 2

Voltage High Loss Level\_2(V)

999.9

Voltage High Loss Time Level\_2(ms)

9999

Voltage Low Loss Level\_2(V)

0

Voltage Low Loss Time Level\_2(ms)

9999

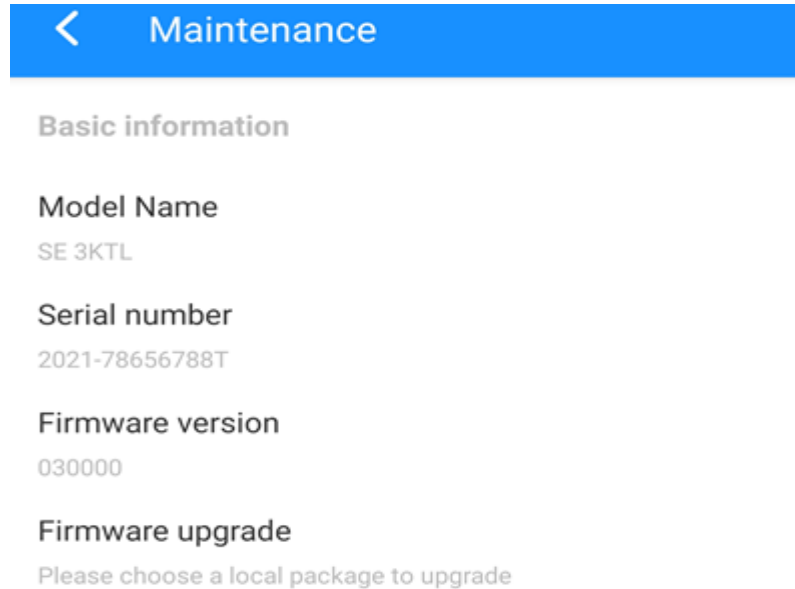
It shows voltage protection

- Voltage High Loss Level 1: Enter Voltage high loss level 1 alarm value.
- Voltage High Loss Time Level 1: Enter Voltage high loss level 1 time value.
- Voltage Low Loss Level 1: Enter Voltage low loss level 1 alarm value.
- Voltage Low Loss Time Level 1: Enter Voltage low loss level 1 alarm value.
- Voltage High Loss Level 2: Enter Voltage high loss level 2 alarm value.
- Voltage High Loss Time Level 2: Enter Voltage high loss level 2 time value.
- Voltage Low Loss Level 2: Enter Voltage low loss level 2 alarm value.
- Voltage Low Loss Time Level 2: Enter Voltage low loss level 2 alarm value.

## 4.7 Maintenance

Only administrator can view the maintenance information. (Switching user operation is on 4.6.1)

### 1. Basic information



It shows the basic information of the inverter.

- Model Name: Inverter model name
- Serial number: Inverter serial number
- Firmware version: Inverter firmware version
- Firmware upgrade: You can choose a local package to upgrade.

### 2. Maintaining



It shows the maintaining operation.

- Power On: Turn on the inverter
- Power Off: Turn off the inverter
- Factory data reset: Parameters will be reset to factory data, please turn off the inverter before resetting.

### 3. Data Management & About

#### Data Management

##### History export

All device history will be exported to root directory

##### Energy export

The energy data will be exported to root directory

##### Configuration export

Configuration will be exported to root directory

#### About

##### App Version

6.4.1

It shows the data management and About.

- History export: All device history will be exported to root directory.
- Energy export: The energy data will be exported to root directory.
- Configuration export: Configuration will be exported to root directory.
- Configuration import: Importing an existing configuration file.
- App version: App version

## 4.8 PowerLimit

17:07 24%

< Power Limit

**Power limit function**  
Digital Meter

**Power limit mode**  
Meter on Grid

**Power limit CT ratio**  
1000:1

**Maximum feed in grid power(W)**  
0

**Digital Power Meter Type**  
CHINT/DTSU666

It show PowerLimit parameter:

- Power limit function: Choose the method that Power limit plays a limiting role
- Power limit mode: Select the mode where Power limit plays a limiting role
- Power limit CT ratio: Select Power limit CT ratio
- Maximum feed in grid power: Enter the maximum power on the network side
- Digital Power Meter Type: Select Digital Power Meter type

