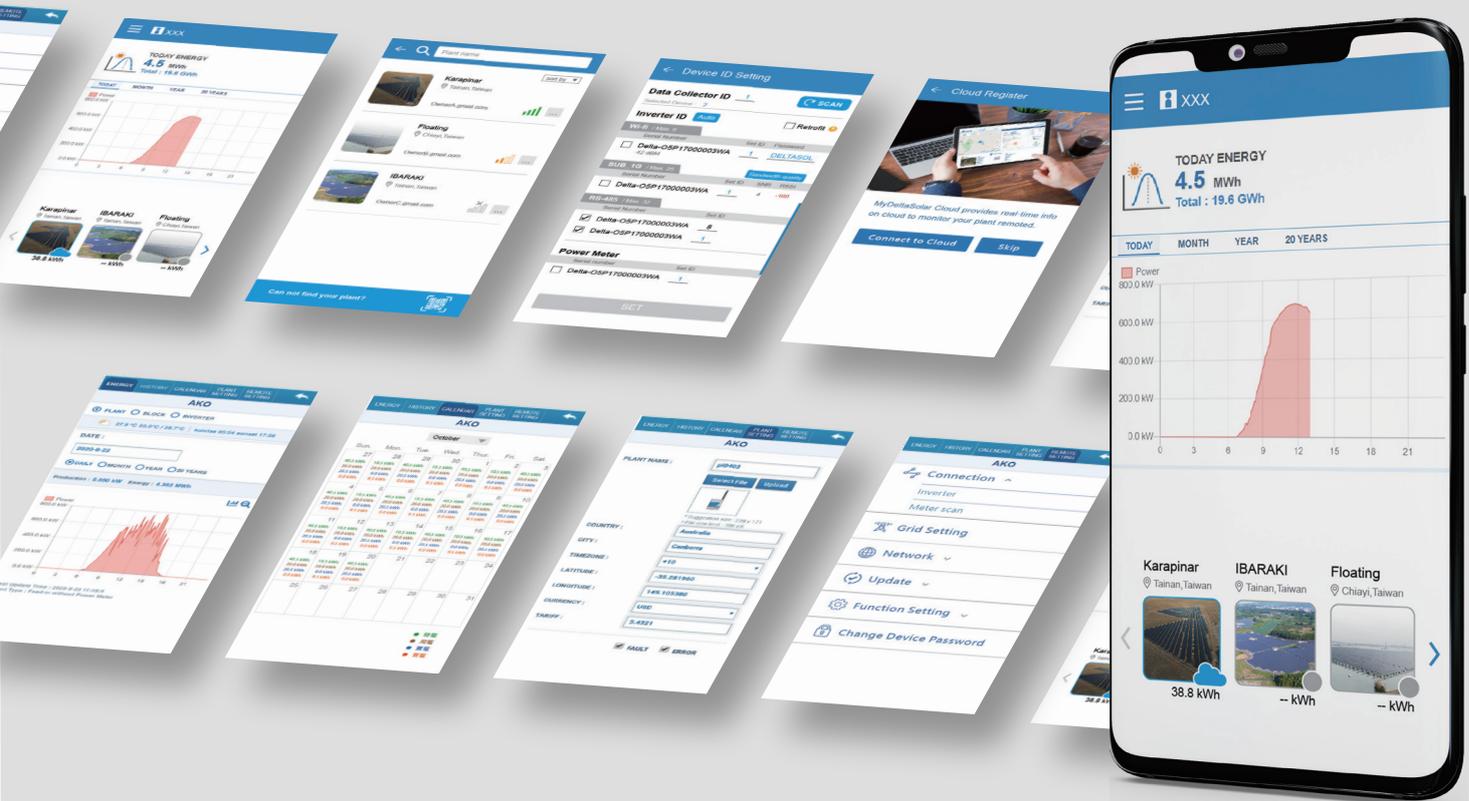


Android

DeltaSolar

DELTA ELECTRONICS, INC.



DeltaSolar Application

Operation Manual for **Android** system

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1. DeltaSolar

1.1. Download



DeltaSolar

1. This APP collocates with Delta Inverter.
2. If inverter is not connected to the cloud, you can still monitor your inverter with DeltaSolar App.



QR Code



iOS



Android

Where can I download DeltaSolar App?

- QR Code: Please scan the QR code on the left side.
- IOS system: Please search for "DeltaSolar" in App store.
- Android system: Please search for "DeltaSolar" in Google Play.



About OS version

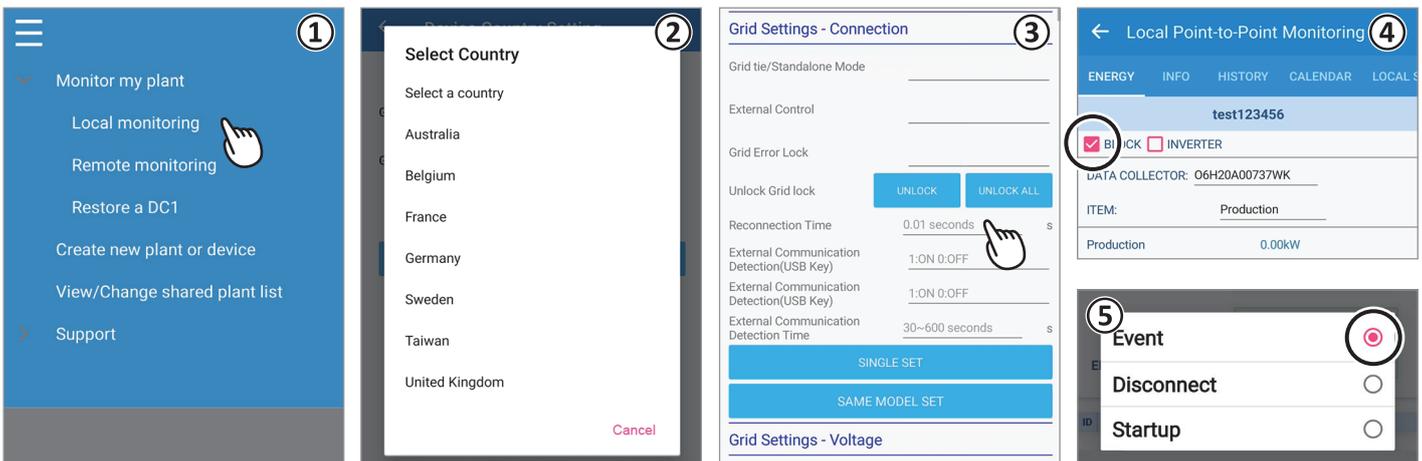
iOS: 8.0 and above
Android OS: Android 8.0 and above

ATTENTION



- Please make sure that your smart phone is connected to the Internet.
- Before setting up, please register an account and sign in to the app.

1.2. Basic operation



① Touch selection

Press the item with your finger to move to the next screen.

② Pull-down menu

The screen where the options are displayed in a list is called a pull-down menu.

③ Text bar

When you press a number or text, the system keyboard will appear for new characters to be entered.
(The typing interface depends on which device you are using.)

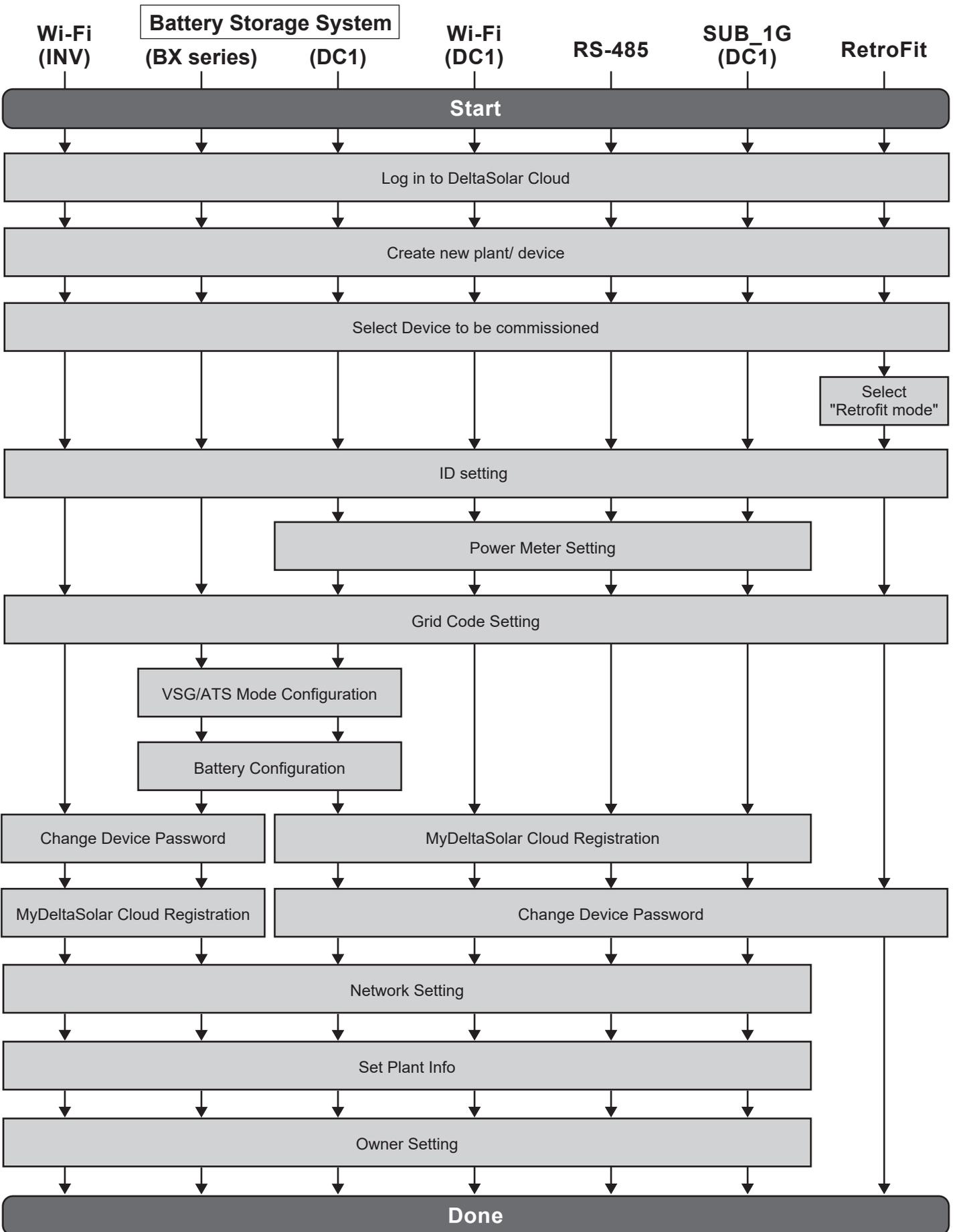
④ Check box

A check box is where you click and mark a "V" (check mark) inside.

⑤ Option button

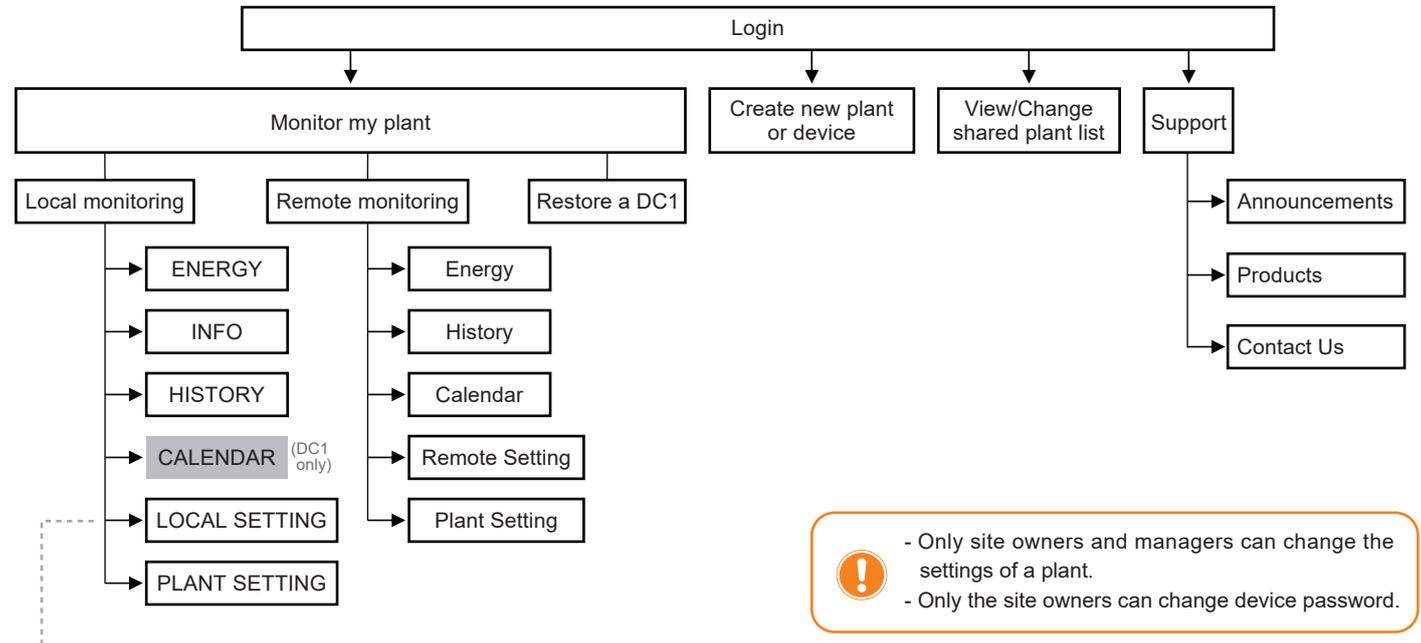
An option button is a round frame which will be filled in with color when you press on.

1.3. Workflow

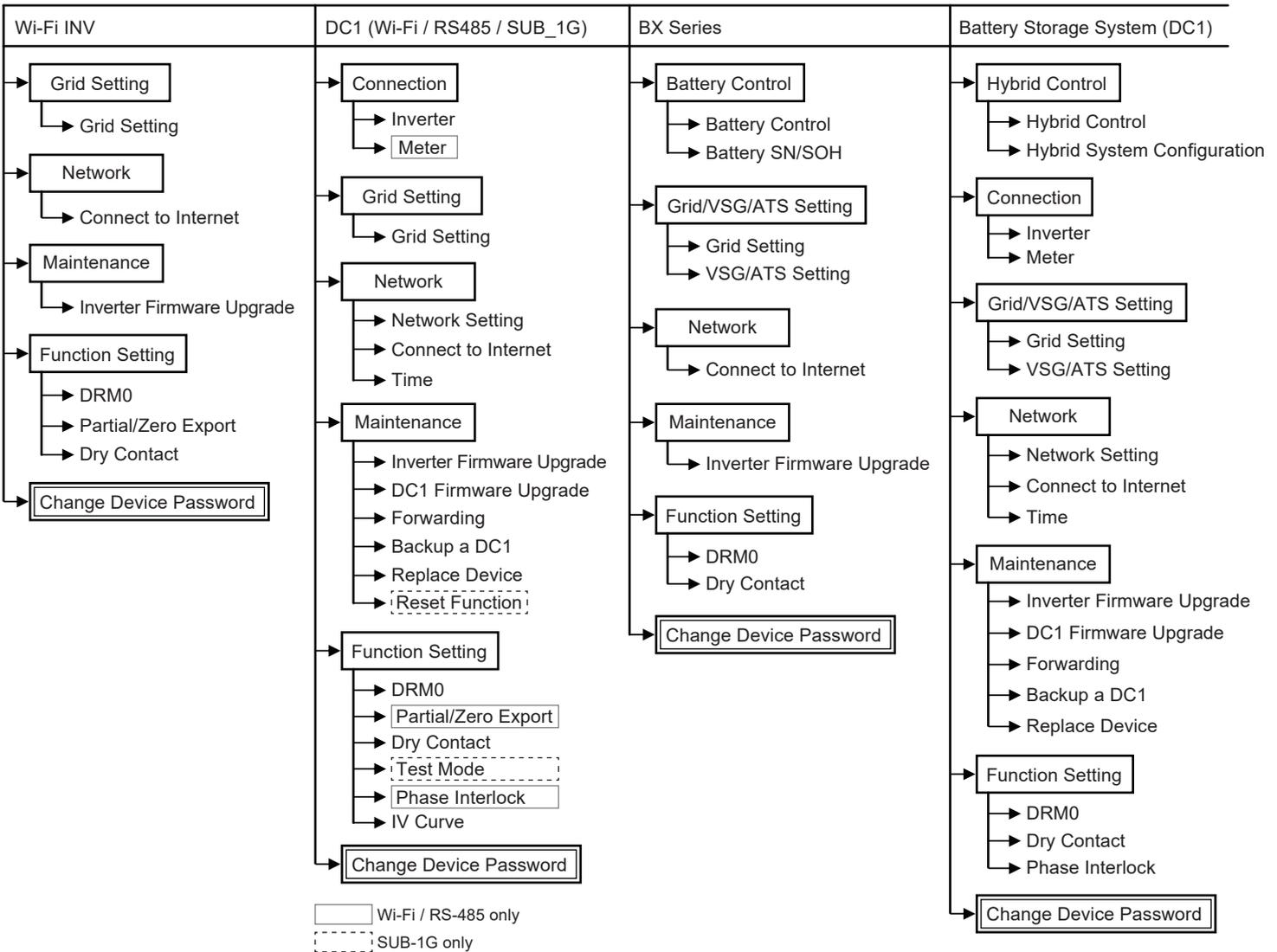


1.4. List of APP Pages

The following figure shows the APP operation flow. For detailed screen content, please refer to **Chapter 4**.

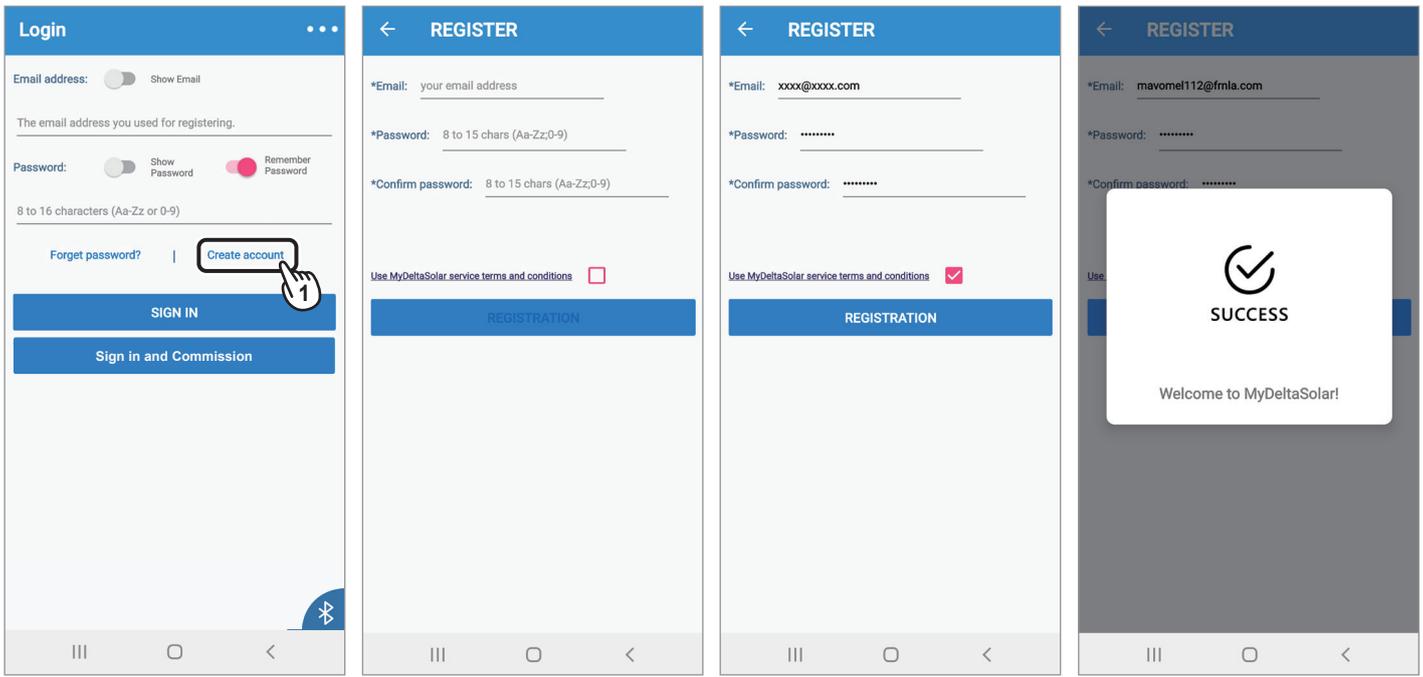


LOCAL SETTING

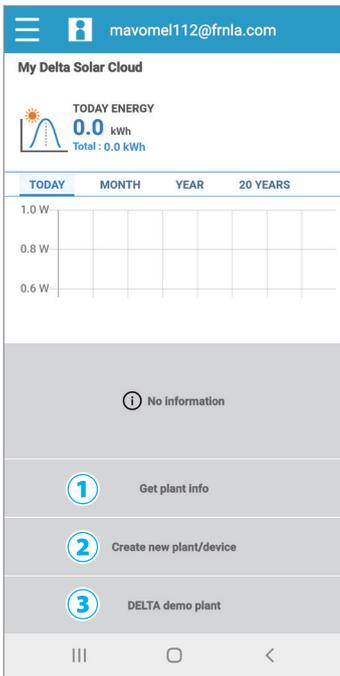


1.5. Create an account

1. Start the APP, click "Create account".
2. Enter the registration page.
3. Fill in the information and click "Register". (Check to agree declaration and click "OK" to continue.)
4. Registration success.



1.6. Homepage for new user



At homepage, If there is no plant in the account, the user can choose one of the three options.

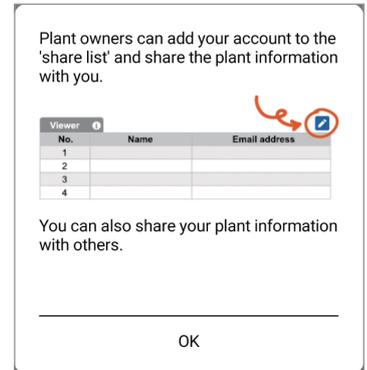
① Get plant info

Users can check the plant information which is shared by the other plant owners.

For more details please refer to Chapter 3.4.

Function accessibility list

| Authority / Function | Owner | Manager | Viewer |
|------------------------|--|---------|--------|
| View plant information | ✓ | ✓ | ✓ |
| View share list | ✓ | ✓ | ✓ |
| Plant setting (Remote) | ✓ | ✓ | 🔒 |
| Plant setting (Local) | Password needed, please contact local service. | | |
| Change device password | ✓ | 🔒 | 🔒 |
| Edit share list | ✓ | 🔒 | 🔒 |



② Create new plant/device

Create a new plant or add an inverter to the existing plant, for more detail please refer to Chapter 2.

③ DELTA demo plant

Users can have a look of the user interface and play with the App with DELTA demo plant first.

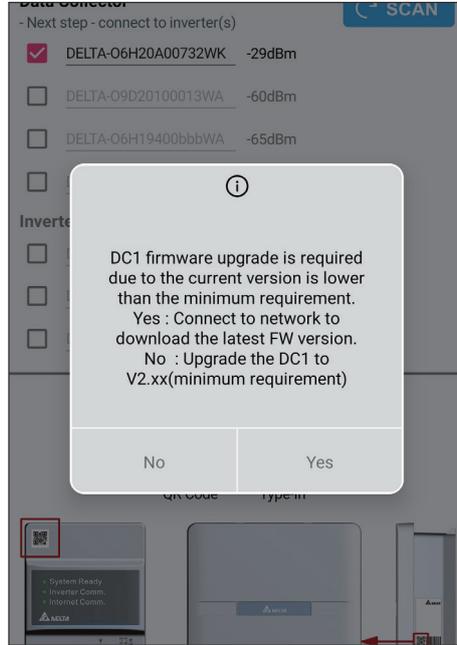
2. Commissioning

2.1. Data Collector (Include Power Meter P1/P3)

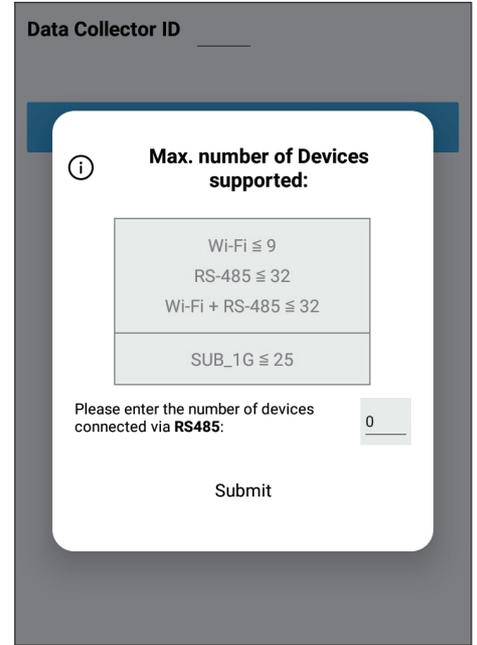
Select the target device and click "SET".



If the DC1 FW is not the latest version, App will ask to update DC1 first, click "Yes" App will start FW update for DC1.

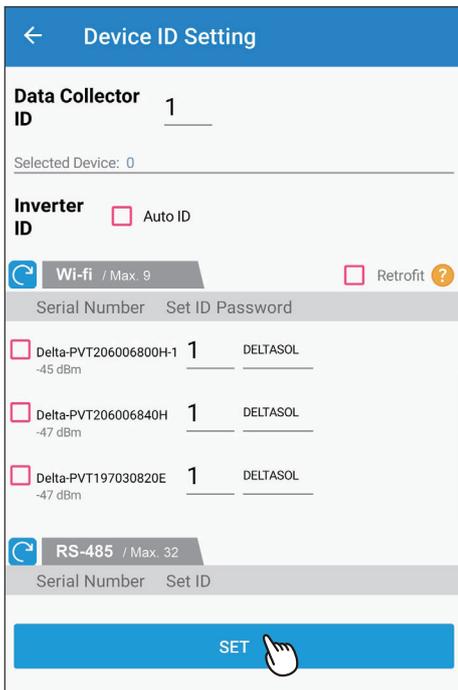


Please fill-in RS-485 device quantity.

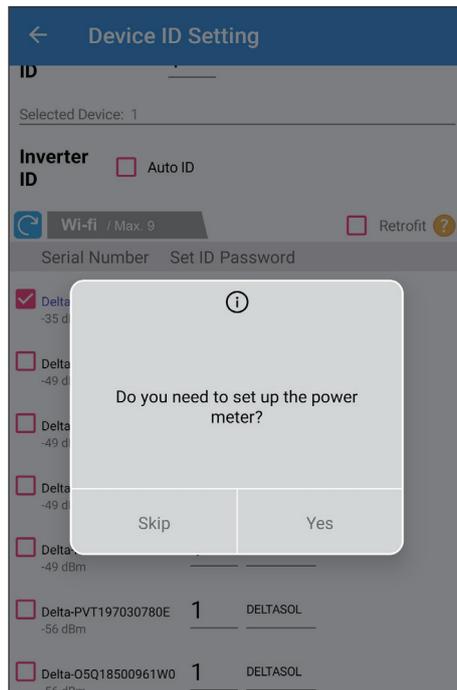


! To establish a stable connection between inverter and MyDeltaSolar Cloud, please check the Wi-Fi connection setting page. The signal strength must be **greater than -70dBm** between the Wi-Fi devices (Wi-Fi router, Wi-Fi inverter, DC1...etc.). **If the signal strength is less than -70dbm, certain communication error may occur to block the Wi-Fi communication between devices.** To avoid this situation, please adjust the device position to improve the signal strength/quality.

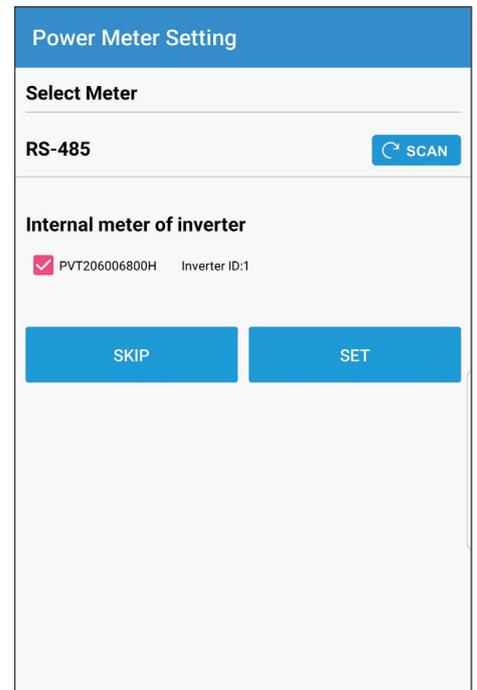
Select the target inverters, click "Auto ID" to assign the ID automatically, and click "SET".



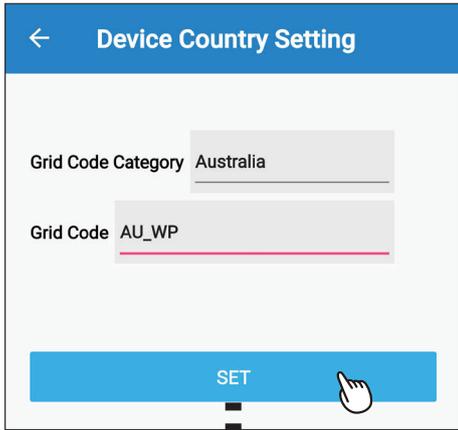
If a Delta power meter needs to be set up, please click "Yes", otherwise please click "Skip" to continue.



Select the meter device for monitoring.



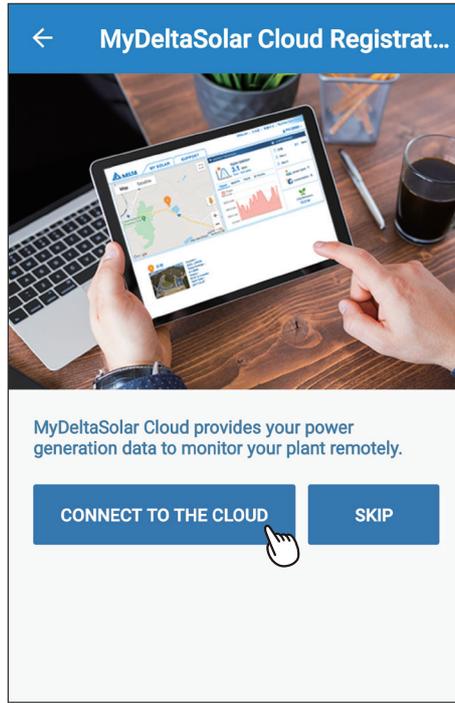
Select a grid code and click "SET".



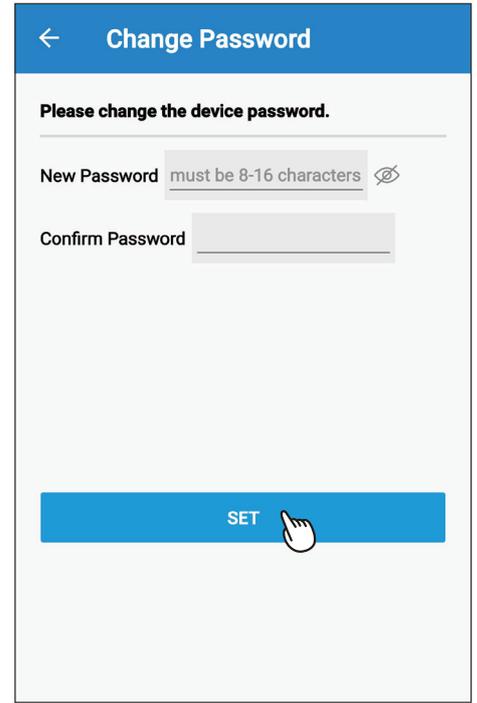
Click "NEXT"



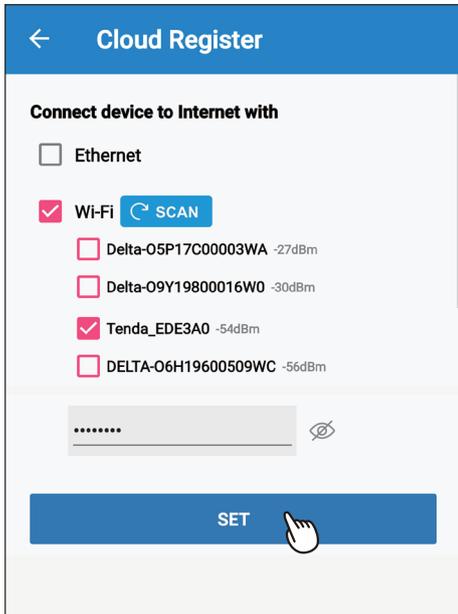
Click "Connect to the Cloud" to use MyDeltaSolar Cloud monitoring service or click "Skip" to go to "Plant setting".



Set a new password to the device and click "SET".



Select the network interface and click "SET".



! Select "Ethernet"

Connect device to Internet with

Ethernet

Auto IP (DHCP)

Set IP

IP address

Subnet mask

Gateway IP

DNS 1

DNS 2

Auto IP (DHCP)

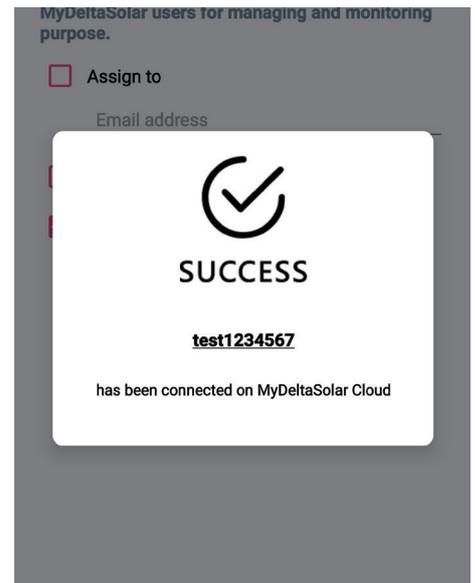
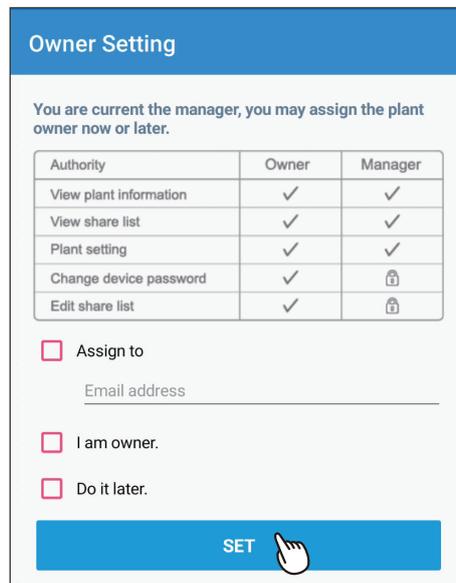
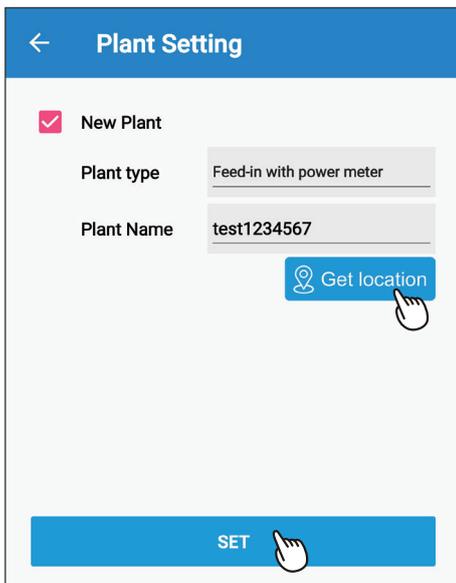
System will automatically assign an IP address.

Set IP

1. IP Address: Please enter a specified IP address.
2. Subnet Mask: Please enter a subnet mask.
3. Gateway IP: Please enter the IP address of the router.
4. DNS1: Please enter DNS1 for the network.
5. DNS2: Please enter DNS2 for the network.
6. Click "SET" to complete the setup.

Select the plant type and assign a name to the plant. Click "Get Location" for the GPS position and click "SET".

Fill in the e-mail address to assign the the plant an owner.



! About owner setting...

- During commissioning, the installer will be set as default, the manager of the plant. Or the installer can assign himself as the plant owner.
- If the assigned email address has not yet been registered to MyDeltaSolar Cloud, an invitation will be sent to this email address.
- When in an environment without Internet, the commissioned plant will be saved in the app and send to the cloud later when Internet is available.
- After commissioning success, the plant info (including device password) will be sent to the cloud. And a success notification will be sent to the plant owner.
- When no owner has been assigned to the plant, there will be a pop-up message every time when selecting the plant (until an owner has been set.)

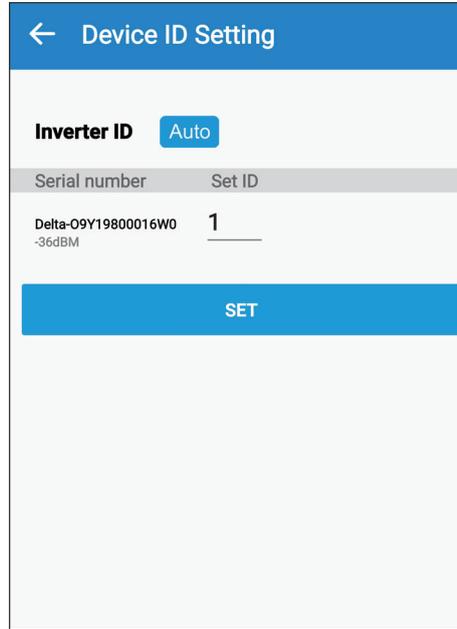


2.2. Wi-Fi Inverter

Select the target device and click “SET”.

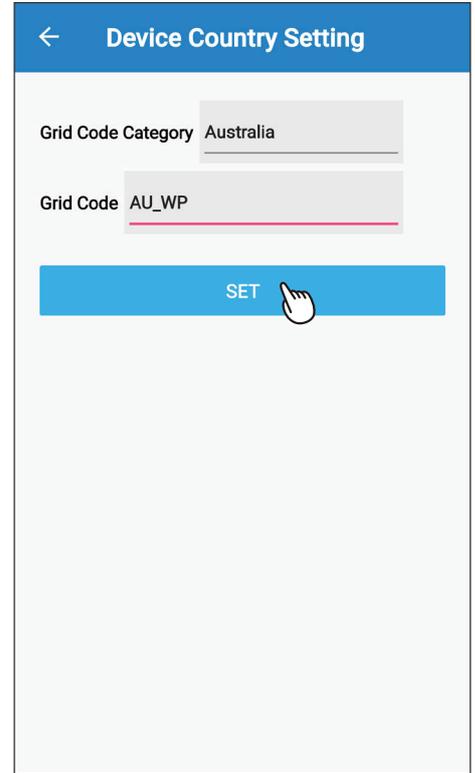


Click “Auto” to assign the ID automatically, and click “SET”



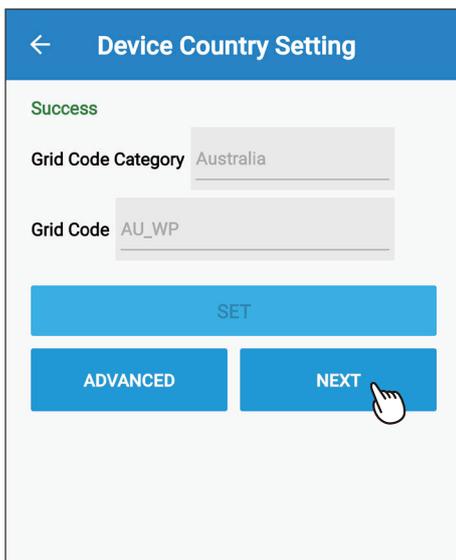
Click **Auto** button, the APP will set the device ID automatically.

Select a grid code and click “SET”.

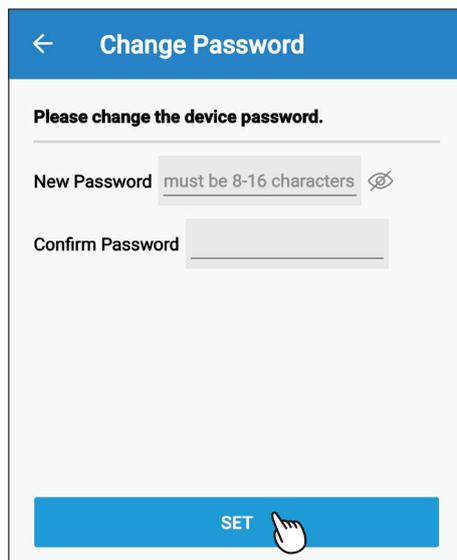


To establish a stable connection between inverter and MyDeltaSolar Cloud, please check the Wi-Fi connection setting page. The signal strength must be **greater than -70dBm** between the Wi-Fi devices (Wi-Fi router, Wi-Fi inverter, DC1...etc.). **If the signal strength is less than -70dbm, certain communication error may occur to block the Wi-Fi communication between devices.** To avoid this situation, please adjust the device position to improve the signal strength/quality.

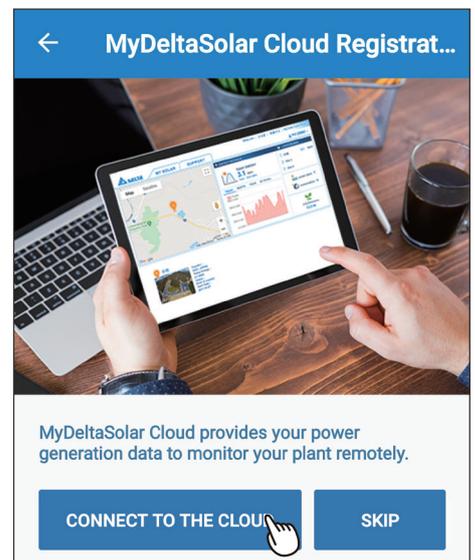
Click “NEXT”.



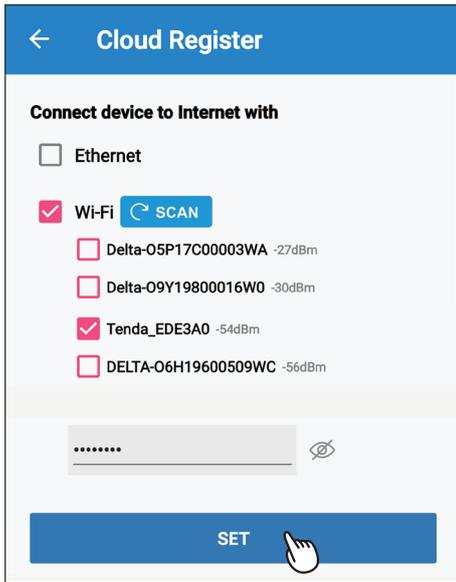
Set a new password to the device and click “SET”.



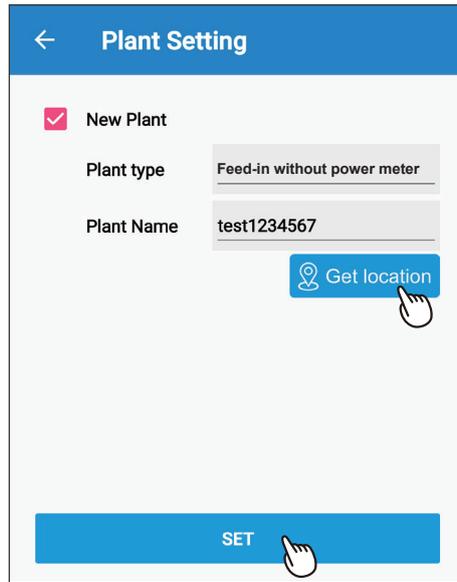
Click “Connect to the Cloud” to use MyDeltaSolar Cloud monitoring service or click “Skip” to go to “Plant setting”.



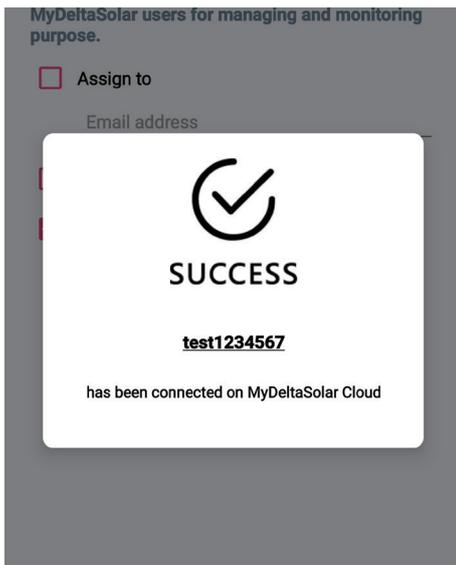
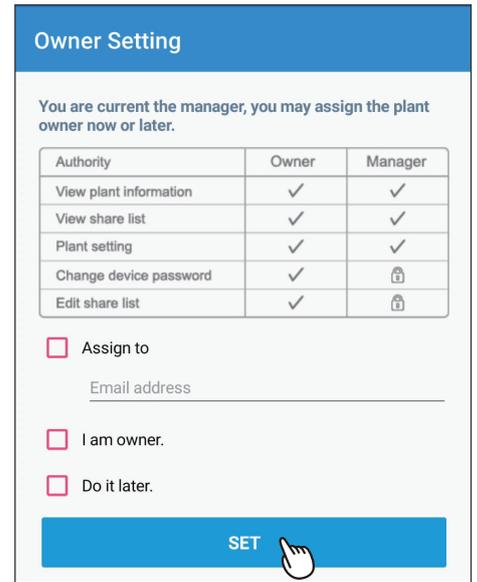
Select the network interface and click "SET".



Select the plant type and assign a name to the plant. Click "Get Location" for the GPS position and click "SET".



Fill in the e-mail address to assign the plant an owner.



! About owner setting...

- During commissioning, the installer will be set as default, the manager of the plant. Or the installer can assign himself as the plant owner.
- If the assigned email address has not yet been registered to MyDeltaSolar Cloud, an invitation will be sent to this email address.
- When in an environment without Internet, the commissioned plant will be saved in the app and send to the cloud later when Internet is available.
- After commissioning success, the plant info (including device password) will be sent to the cloud. And a success notification will be sent to the plant owner.
- When no owner has been assigned to the plant, there will be a pop-up message every time when selecting the plant (until an owner has been set.)

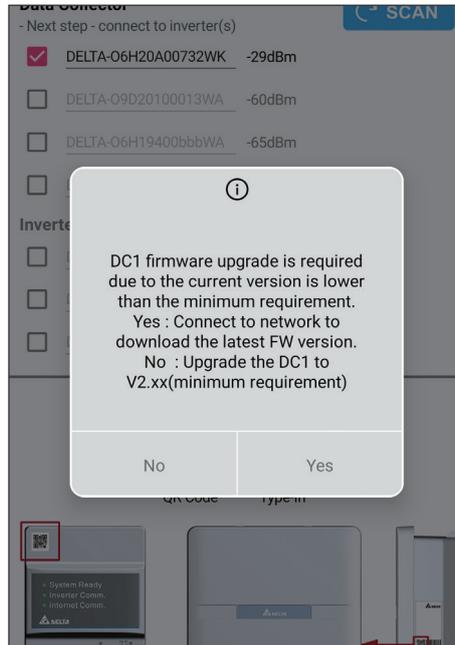


2.3. Battery Storage System (DC1)

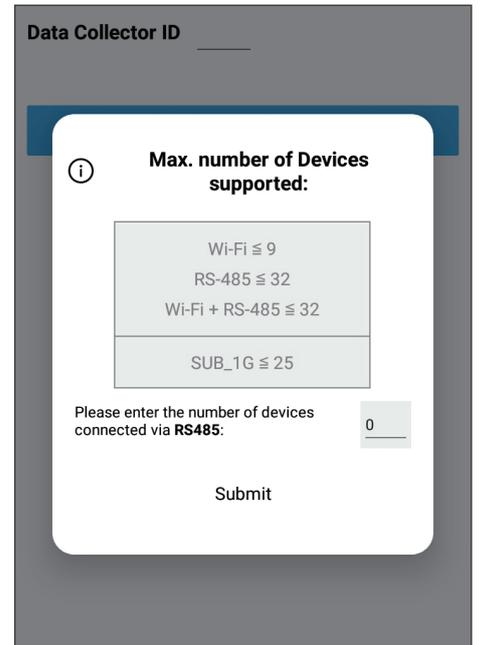
Select the target device and click “SET”.



If the DC1 FW is not the latest version, App will ask to update DC1 first, click "Yes" App will start FW update for DC1.

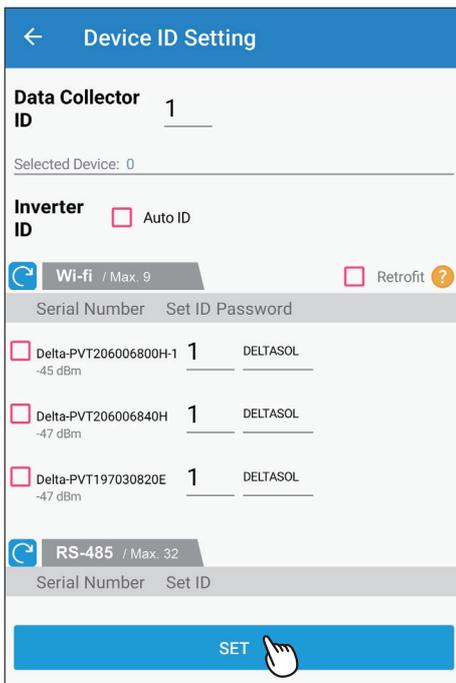


Please fill-in RS-485 device quantity.

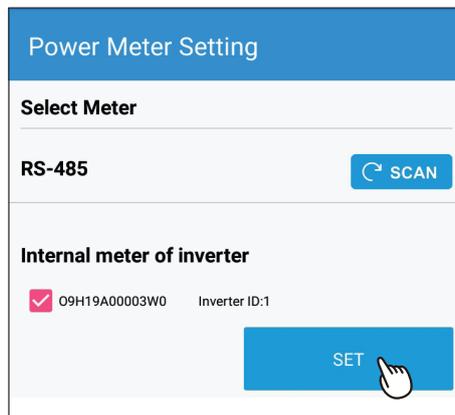


To establish a stable connection between inverter and MyDeltaSolar Cloud, please check the Wi-Fi connection setting page. The signal strength must be **greater than -70dBm** between the Wi-Fi devices (Wi-Fi router, Wi-Fi inverter, DC1...etc.). **If the signal strength is less than -70dbm, certain communication error may occur to block the Wi-Fi communication between devices.** To avoid this situation, please adjust the device position to improve the signal strength/quality.

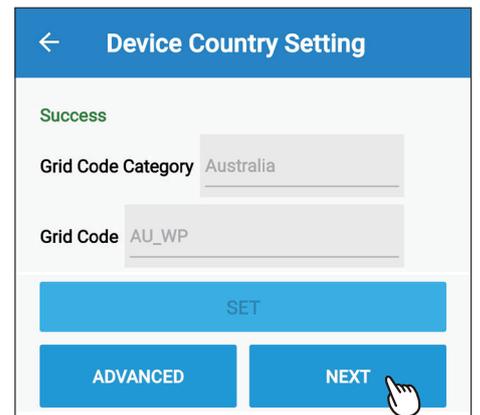
Select the target inverters, click “Auto ID” to assign the ID automatically, and click “SET”.



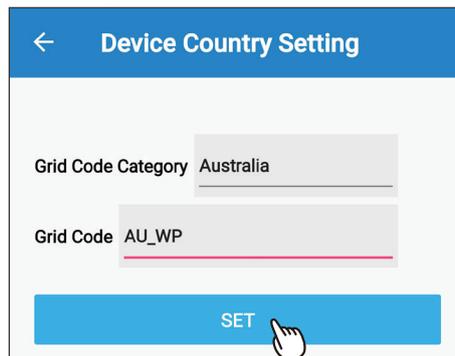
Select Power Meter.



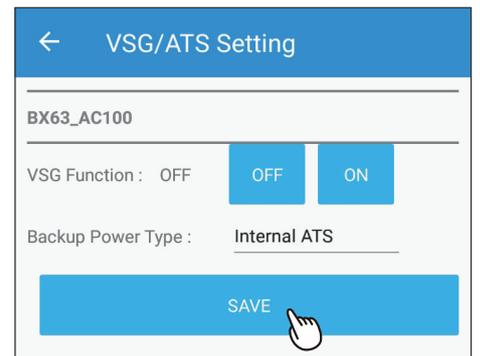
Click “NEXT”.



Select a grid code and click “SET”.



Select VSG Function and Backup Power Type.



Click **Auto** button, the APP will set the device ID automatically.

Select the Battery type and SOH checking day. * The BX series need to check the entire SOH at least once per year.

When select "BX12.6_AC", please type in the S/N of BX6.3_EX100.

Click "Connect to the Cloud" to use MyDeltaSolar Cloud monitoring service or click "Skip" to go to "Plant setting".

Set a new password to the device and click "SET".

Select the network interface and click "SET".

! Select "Ethernet"

Connect device to Internet with

Ethernet

Auto IP (DHCP)

Set IP

IP address

Subnet mask

Gateway IP

DNS 1

DNS 2

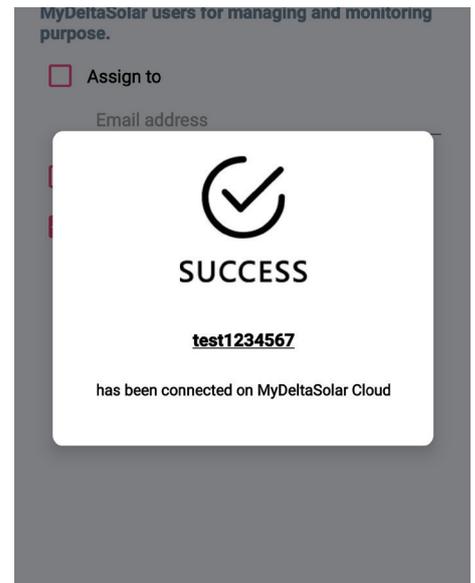
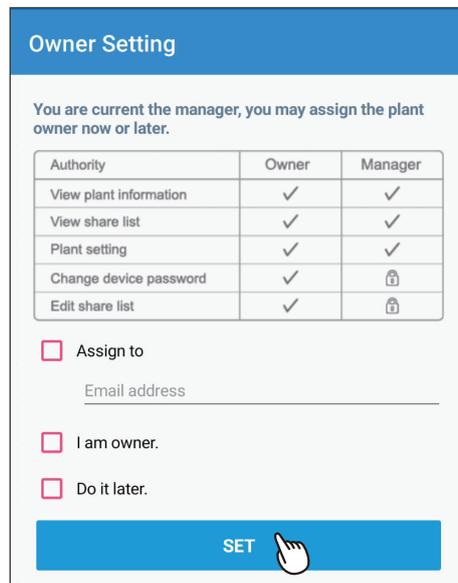
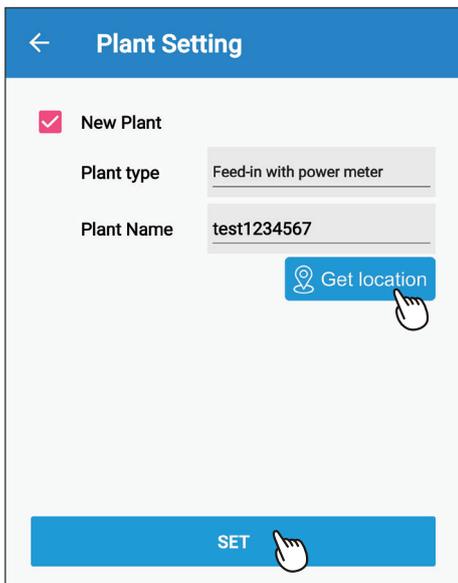
Auto IP (DHCP)
System will automatically assign an IP address.

Set IP

1. IP Address: Please enter a specified IP address.
2. Subnet Mask: Please enter a subnet mask.
3. Gateway IP: Please enter the IP address of the router.
4. DNS1: Please enter DNS1 for the network.
5. DNS2: Please enter DNS2 for the network.
6. Click "SET" to complete the setup.

Select the plant type and assign a name to the plant. Click "Get Location" for the GPS position and click "SET".

Fill in the e-mail address to assign the the plant an owner.



About owner setting...

- During commissioning, the installer will be set as default, the manager of the plant. Or the installer can assign himself as the plant owner.
- If the assigned email address has not yet been registered to MyDeltaSolar Cloud, an invitation will be sent to this email address.
- When in an environment without Internet, the commissioned plant will be saved in the app and send to the cloud later when Internet is available.
- After commissioning success, the plant info (including device password) will be sent to the cloud. And a success notification will be sent to the plant owner.
- When no owner has been assigned to the plant, there will be a pop-up message every time when selecting the plant (until an owner has been set.)



2.4. Battery Storage System (BX series)

Select the target device and click "SET".

Click "Auto" to assign the ID automatically, and click "SET".

Select a grid code and click "SET".

Click "NEXT".



To establish a stable connection between inverter and MyDeltaSolar Cloud, please check the Wi-Fi connection setting page. The signal strength must be **greater than -70dBm** between the Wi-Fi devices (Wi-Fi router, Wi-Fi inverter, DC1...etc.). **If the signal strength is less than -70dbm, certain communication error may occur to block the Wi-Fi communication between devices.** To avoid this situation, please adjust the device position to improve the signal strength/quality.

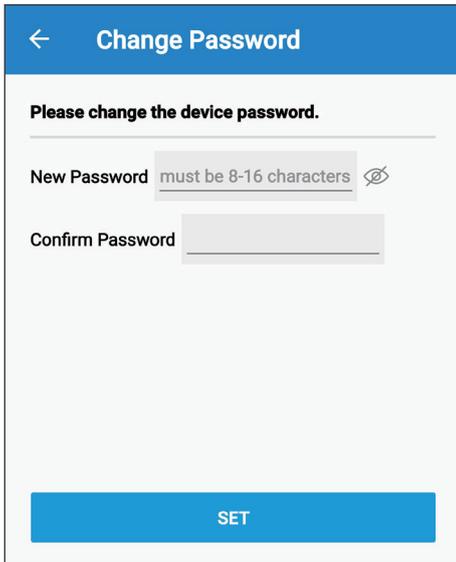
Select VSG Function and Backup Power Type.

Click "NEXT".

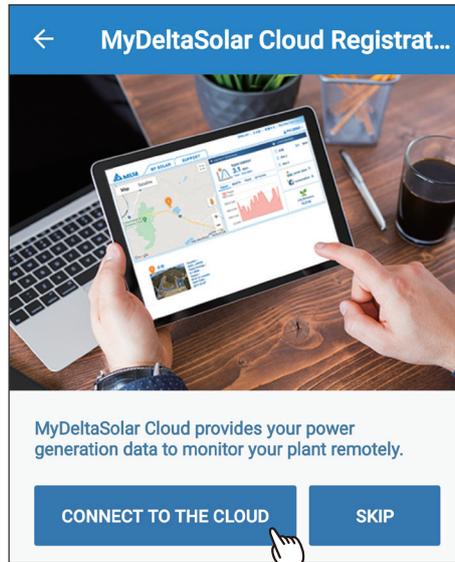
Select the Battery type and SOH checking day. * The BX series need to check the entire SOH at least once per year.

When select "BX12.6_AC", please type in the S/N of BX6.3_EX100.

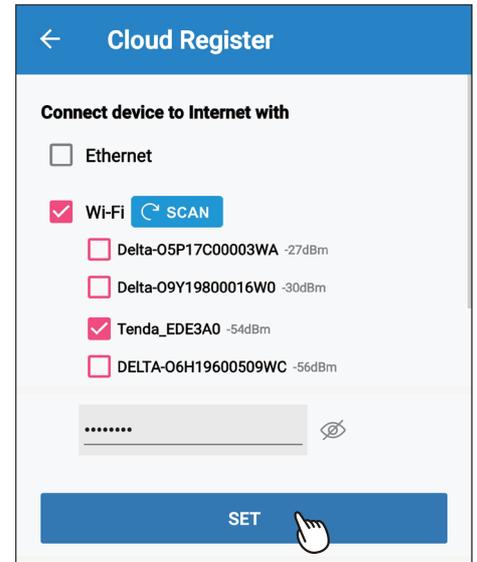
Set a new password to the device and click "SET".



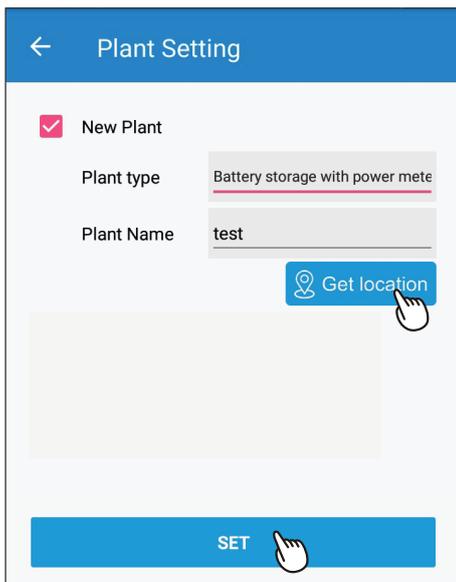
Click "Connect to the Cloud" to use MyDeltaSolar Cloud monitoring service or click "Skip" to go to "Plant setting".



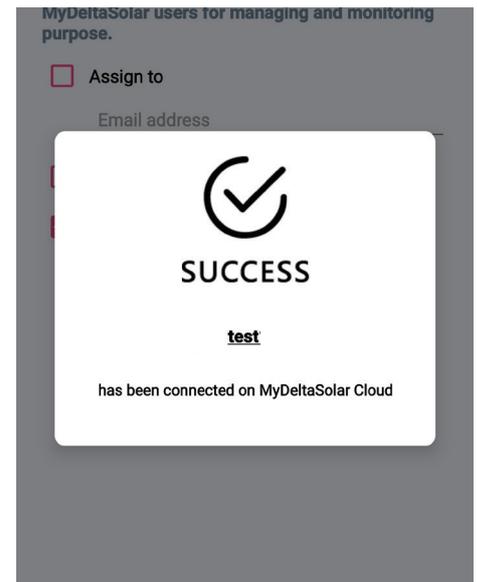
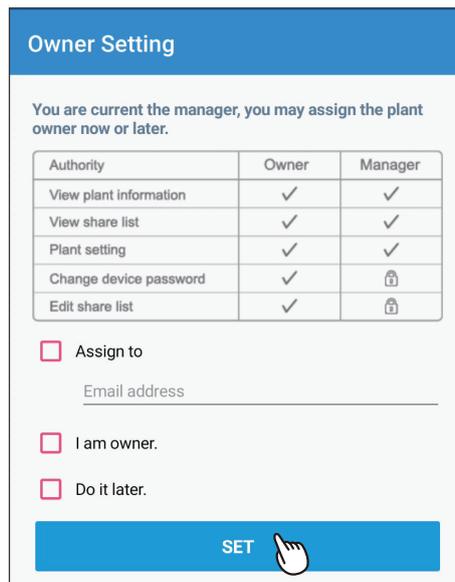
Select the network interface and click "SET".



Select the plant type and assign a name to the plant. Click "Get Location" for the GPS position and click "SET".



Fill in the e-mail address to assign the the plant an owner.



! About owner setting...

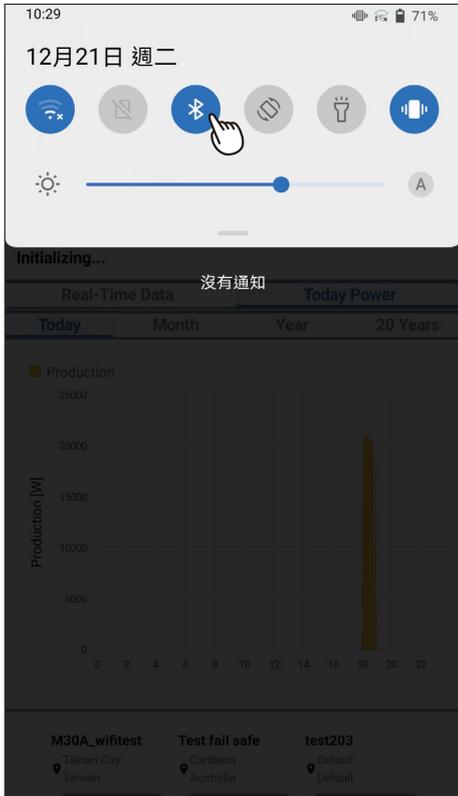
- During commissioning, the installer will be set as default, the manager of the plant. Or the installer can assign himself as the plant owner.
- If the assigned email address has not yet been registered to MyDeltaSolar Cloud, an invitation will be sent to this email address.
- When in an environment without Internet, the commissioned plant will be saved in the app and send to the cloud later when Internet is available.
- After commissioning success, the plant info (including device password) will be sent to the cloud. And a success notification will be sent to the plant owner.
- When no owner has been assigned to the plant, there will be a pop-up message every time when selecting the plant (until an owner has been set.)



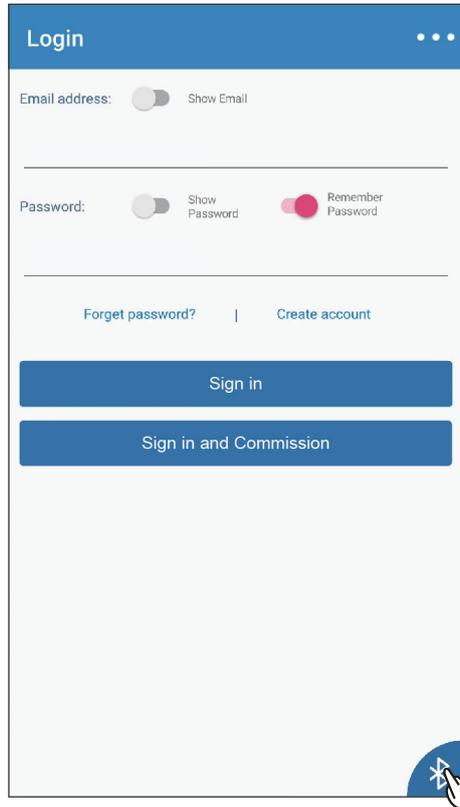
3. Bluetooth

3.1. Connection

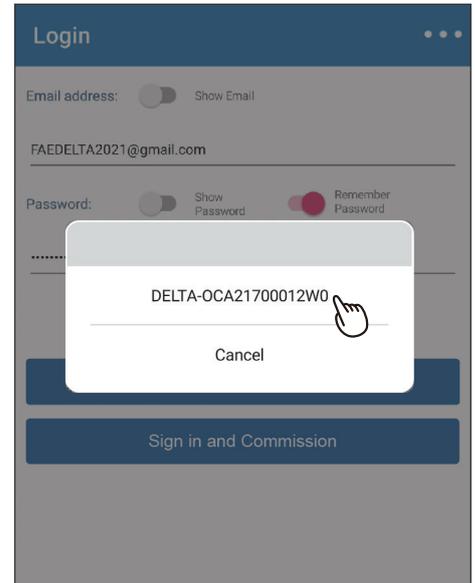
Enable the Bluetooth function of your mobile device.



Click “” on the bottom right corner.



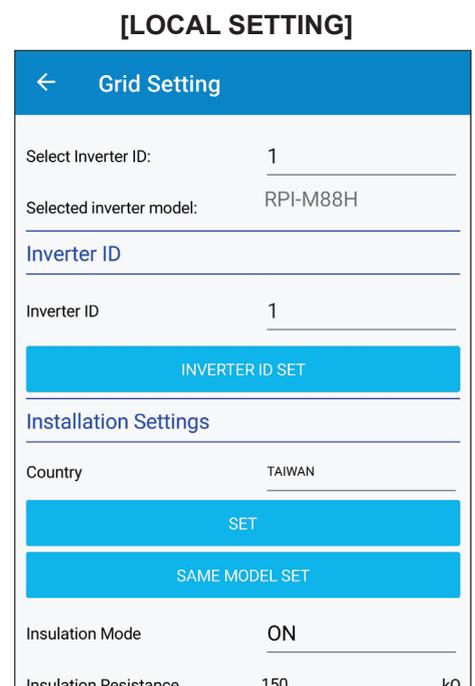
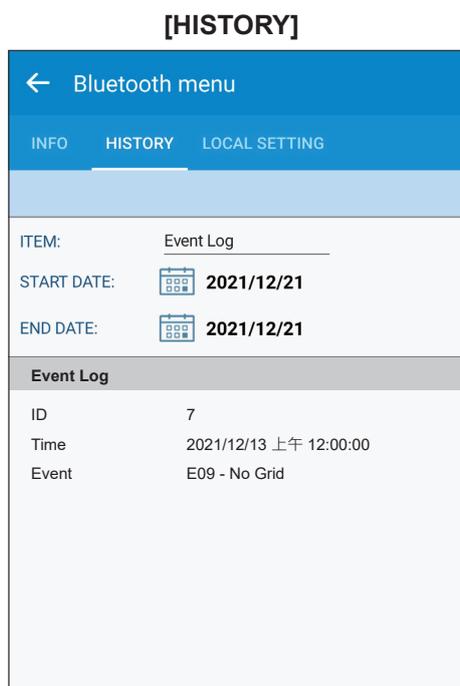
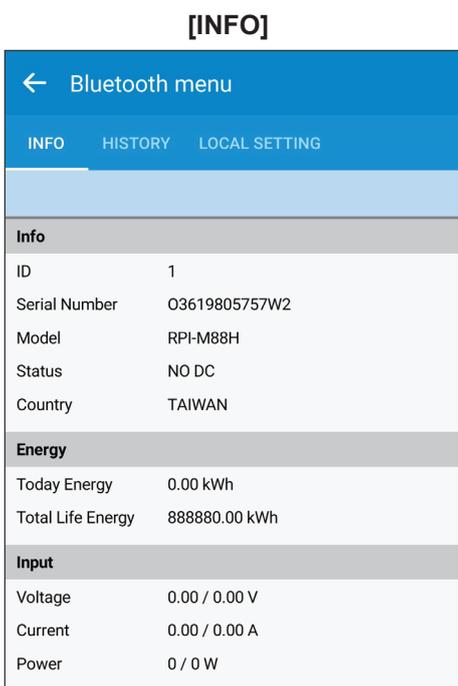
Select the serial number of the device.



 If the S/N of the corresponding inverter is not available on the list in the app, please reboot the Bluetooth function of your mobile device.

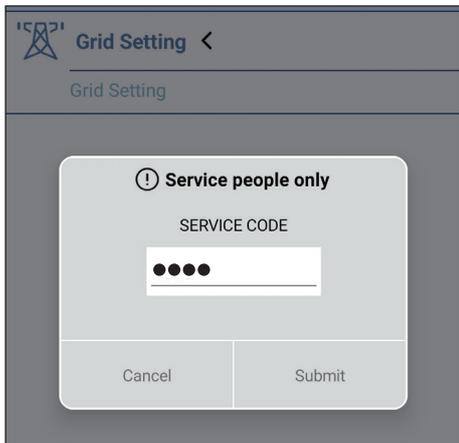
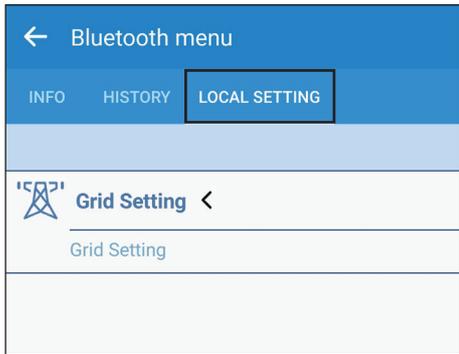
3.2. Bluetooth menu

There are 3 tabs for Bluetooth menu.

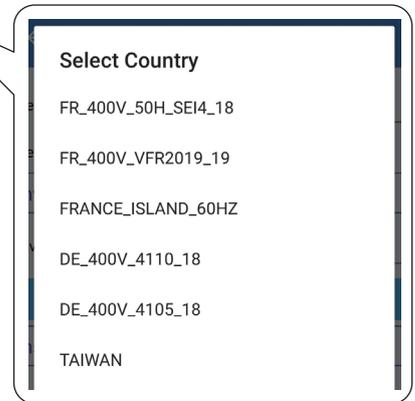
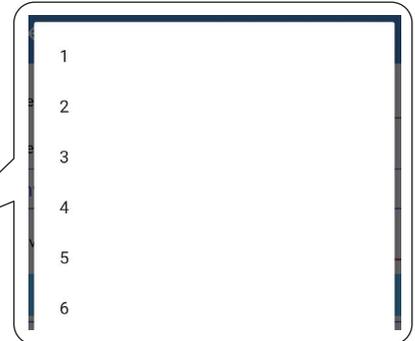
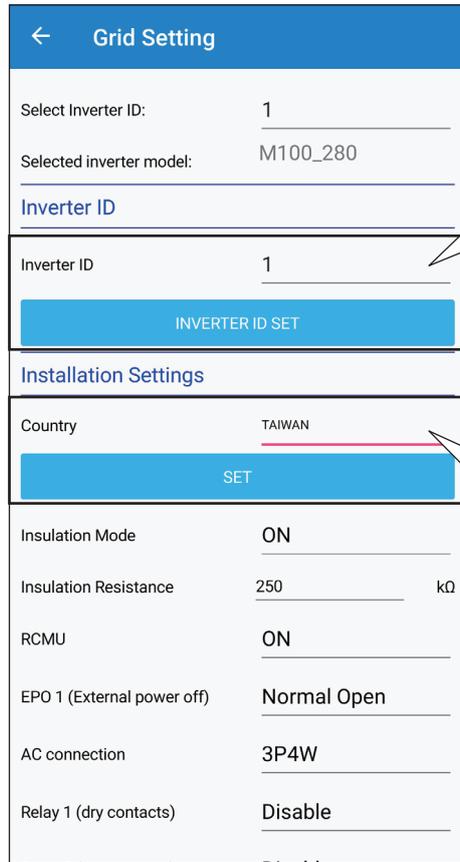


3.3. Commission

Select "LOCAL SETTING" sheet and click "Grid Setting".



Click "Inverter ID" to select the required ID and then click "INVERTER ID SET". Click "Country" to select the required grid code and then click "SET".



4. Description of the page display

The APP displays a variety of pages, such as the amount of power production, power consumed, Feed-in or purchased power, as well as the operating status of the Inverter.

 The iOS and Android App have a slightly different layout. This manual explains the App for the Android system.

4.1. Homepage



① Main menu
For more details, please see the section "Description of the screen display".

② User menu
Change language, Sign out.



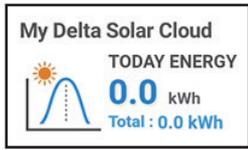
③ Power generation

Showing today's power generation and total power generation.

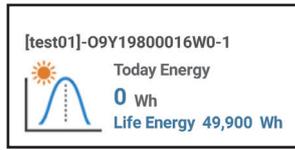
At remote monitoring: showing the power generation for all plant.

At Local monitoring : showing the power generation for selected device of the plant.

[Remote mode]



[Local mode]



④ Battery capacity

If the site has a storage system, this icon will appear up to indicate the battery capacity.

⑤ Power generation map

Showing different power generation maps according to the selected time interval.



[MONTH]



[YEAR]



[20 YEARS]

⑥ Set up the Plant

Showing the name of each plant and the power generated.

Definition of Status Icon



Plant on cloud
With cloud icon



Plant not on cloud
with circle icon, quick P2P
connection from here

| On site connection | |
|--------------------|---------------|
| | no signal |
| | not connected |
| | monitoring |

| Cloud connection | |
|------------------|-----------------------------|
| | no Internet |
| | monitoring |
| | fault |
| | error/waring/ disconnect |

4.2. Monitor my plant

Users can view plant information or change settings by entering to "Monitor my plant".

There are three options.

Local monitoring :

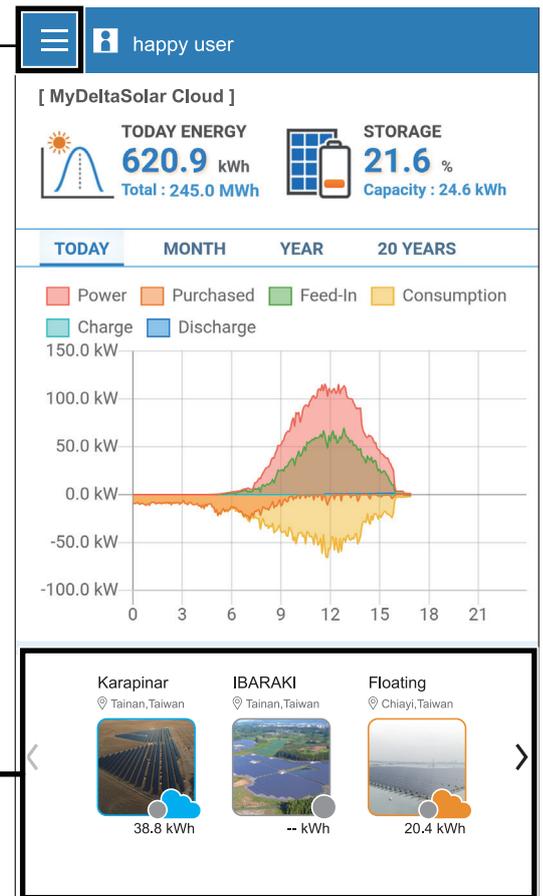
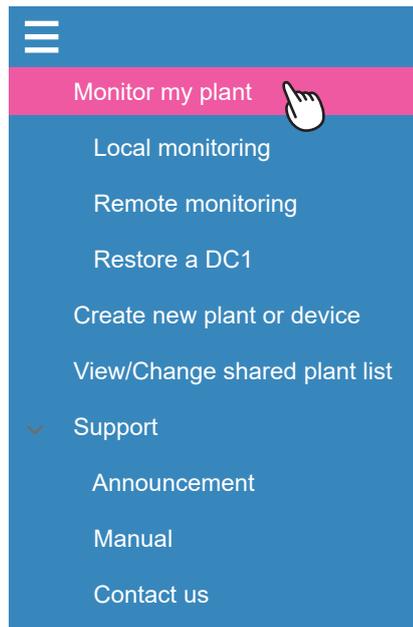
Use Wi-Fi point to point connection with the device nearby and check the information.

Remote monitoring :

check information from MyDeltaSolar Cloud.

Restore DC1 :

Users can use this function for DC1 replacement.



The plant information page can also be accessed from the icon below.
*By clicking the icon, users can only view the plant information. For more settings please go to the main menu.

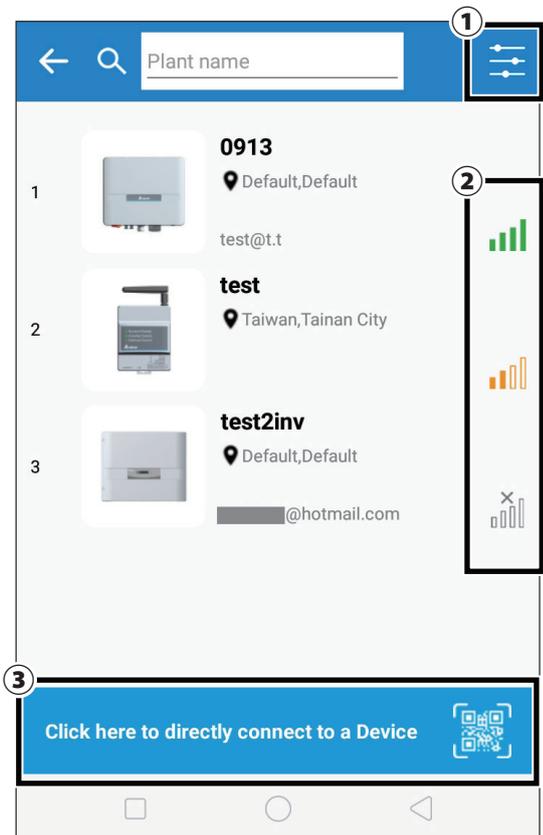
The plant list will be shown when entering "Local monitoring" or "Remote monitoring" from "Monitor my plant".

① This icon  can change the sorting method of the plant list.

(Local monitoring only)

② Signal strength of the plant device.

③ If there is no plant info, users can connect to the device by searching Wi-Fi signal or scanning QR code.



Slide the plant picture to the right, users can pin the plant on the top.

Slide to the left, users can delete the plant.

* The deleting here will only remove the plant info for this account. It will not affect the other person who has also the authority for the plant.

* When the last owner deleted this plant, the plant info will be totally removed from the cloud.

4.2.1. Local monitoring

There are six tabs in "Local monitoring."

[ENERGY]

[INFO]

[HISTORY]

[CALENDAR] * DC1 only

[LOCAL SETTING]

[PLANT SETTING]

ENERGY

The energy tabs of a DC1 and an inverter have different indications. For DC1, there is an additional selection to show the energy info by block.

Connection of Inverter

← Local Point-to-Point Monitoring

ENERGY INFO HISTORY LOCAL SETTING

0913

[Real-Time Data]

Production 0.00 kW
Consumption --- kW
Feed-in --- kW

Charge --- kW
SOC --- %

[Power / Energy]

Today Energy: 0.00 kWh
ITEM: Production

DATE: 2021/9/13
 DAILY MONTH YEAR 20 YEARS

Production [W]

Plant Type: Feed-in without Power Meter

[Real-Time Data]

[Power / Energy]

[Graph]

Connection of DC1

← Local Point-to-Point Monitoring

ENERGY INFO HISTORY CALENDAR LOCAL S...

0902

[Real-Time Data]

Production 0.01 kW
Consumption 0.00 kW
Feed-in 0.00 kW

Charge 0.00 kW
SOC 0 %

[Power / Energy] BLOCK INVERTER

DATA COLLECTOR: 06H20A00737WK
ITEM: Production
Today Energy: 0.00 kWh

DATE: 2021/9/2
 DAILY MONTH YEAR 20 YEARS

Production [W]

Plant Type: Feed-in without Power Meter

[Real-Time Data]

[Power / Energy - BLOCK]

[Graph]

← Local Point-to-Point Monitoring

ENERGY INFO HISTORY CALENDAR LOCAL S...

0902

[Real-Time Data]

Production 0.01 kW
Consumption 0.00 kW
Feed-in 0.00 kW

Charge 0.00 kW
SOC 0 %

[Power / Energy] BLOCK INVERTER

DATA COLLECTOR: 06H20A00737WK
INVERTER ID: 1
ITEM: Production
Today Energy: 0.00 kWh

DATE: 2021/9/2
 DAILY MONTH YEAR 20 YEARS

Production [W]

Plant Type: Feed-in without Power Meter

[Real-Time Data]

[Power / Energy - INVERTER]

INFO

The energy tabs of a DC1 and an inverter have different indications. When connecting to DC1, users can select each inverter by ID.

Connection of Inverter

| ← Local Point-to-Point Monitoring | |
|-----------------------------------|---------------|
| ENERGY INFO HISTORY LOCAL SETTING | |
| 0913 | |
| Info | |
| ID | 1 |
| Serial Number | O9Y19800016W0 |
| Model | H5A_222 |
| Status | STANDBY |
| Country | AU_WP |
| Energy | |
| Today Energy | 0.0 Wh |
| Total Life Energy | 49900.0 Wh |
| Input | |
| Voltage | 0.00 / 0.00 V |
| Current | 0.00 / 0.00 A |
| Power | 0 / 0 W |
| Output | |
| Voltage | 0.00 V |
| Current | 0.00 A |
| Power | 0 W |
| Meter Info | |
| Voltage | 120.20 V |
| Current | 0.32 A |
| Power | 0 W - Feed-in |
| Meter Status | Off |

Connection of DC1

| ← Local Point-to-Point Monitoring | |
|---|---------------|
| ENERGY INFO HISTORY CALENDAR LOCAL S | |
| 0902 | |
| <input checked="" type="checkbox"/> BLOCK <input type="checkbox"/> INVERTER | |
| DATA COLLECTOR: O6H20A00737WK | |
| Info | |
| Serial Number | O6H20A00737WK |
| Model | DC1_100 |
| Meter Quantity | 0 |
| Firmware Version | 83.06 |
| Energy | |
| Today Energy | 0.0 kWh |
| Total Life Energy | 14.8 kWh |

[BLOCK]

| ← Local Point-to-Point Monitoring | |
|---|---------------|
| ENERGY INFO HISTORY CALENDAR LOCAL S | |
| 0902 | |
| <input type="checkbox"/> BLOCK <input checked="" type="checkbox"/> INVERTER | |
| DATA COLLECTOR: O6H20A00737WK | |
| INVERTER ID: 1 | |
| Info | |
| ID | 1 |
| Serial Number | O9Y19700007W0 |
| Model | H5A_222 |
| Status | Check DC |
| Country | AU_WP |
| Energy | |
| Today Energy | 0.0 Wh |
| Total Life Energy | 14860.0 Wh |
| Input | |
| Voltage | 1.10 / 1.20 V |
| Current | 3.20 / 2.32 A |
| Power | 3.00 / 2.00 W |
| Output | |
| Voltage | 119.20 V |
| Current | 0.71 A |
| Power | 0.00 W |

[INVERTER]

HISTORY

Connection of Inverter

[Event Log]

← Local Point-to-Point Monitoring

ENERGY INFO HISTORY LOCAL SETTING

0913

ITEM: Event Log

START DATE: 2021/9/13

END DATE: 2021/9/13

Event Log

| | |
|-------|------------------------|
| ID | 7 |
| Time | 2021/12/13 上午 12:00:00 |
| Event | E09 - No Grid |

[Startup Log]

← Local Point-to-Point Monitoring

ENERGY INFO HISTORY LOCAL SETTING

0913

ITEM: Startup Log

Startup Log

| | |
|------|----------------------|
| ID | 1 |
| Time | 2021/8/5 上午 12:00:00 |

[Derating Log]

← Local Point-to-Point Monitoring

ENERGY INFO HISTORY LOCAL SETTING

0913

ITEM: Derating Log

START DATE: 2021/9/13

END DATE: 2021/9/13

Over Voltage AC

| | |
|------------|------------------------|
| ID | 7 |
| Start Time | 2021/10/16 下午 12:31:24 |
| Total Time | 00:01:46 |

Under Voltage AC

| | |
|------------|---|
| ID | - |
| Start Time | - |
| Total Time | - |

Over Voltage DC

| | |
|------------|---|
| ID | - |
| Start Time | - |
| Total Time | - |

Over Temperature

| | |
|------------|---|
| ID | - |
| Start Time | - |
| Total Time | - |

Connection of DC1

[BLOCK]

← Local Point-to-Point Monitoring

ENERGY INFO HISTORY CALENDAR LOCAL S

0902

BLOCK INVERTER

DATA COLLECTOR: O6H20A00737WK

ITEM: Startup Log

Startup Log

| | |
|----------------|----------------------|
| Data Collector | O6H20A00737WK |
| Time | 2021/8/5 上午 12:00:00 |

[INVERTER]

← Local Point-to-Point Monitoring

ENERGY INFO HISTORY CALENDAR LOCAL S

0902

BLOCK INVERTER

DATA COLLECTOR: O6H20A00737WK

INVERTER ID: All

ITEM: Event Log

START DATE: 2021/9/2

END DATE: 2021/9/2

Event Log

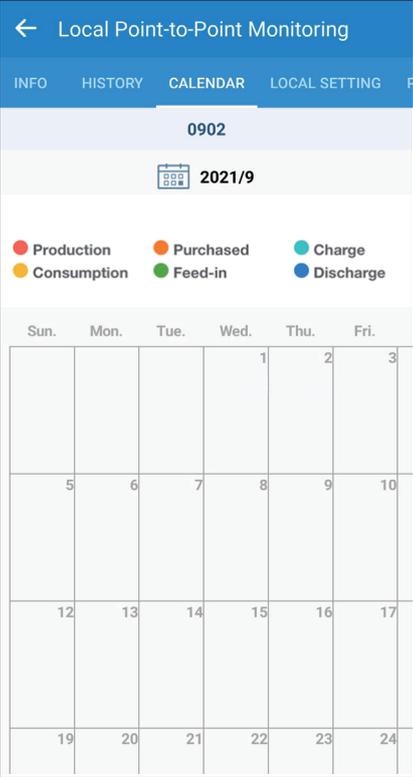
| | |
|-------|------------------------|
| ID | 1 |
| Time | 2021/12/13 上午 11:10:13 |
| Event | E09 - No Grid |

| | |
|-------|------------------------|
| ID | 2 |
| Time | 2021/12/13 上午 11:06:28 |
| Event | E09 - No Grid |

CALENDAR

The calendar is only displayed when under the connection with DC1. Users can check the energy flow day by day.

Connection of DC1

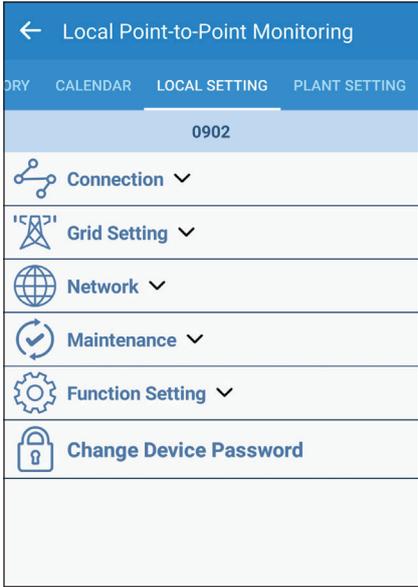


LOCAL SETTING

Connection of Inverter



Connection of DC1



* For more detail please refer chapter 1.4 "List of APP pages"

PLANT SETTING

Users can change their plant name, plant picture, country and city in "Plant Setting".

Connection of Inverter

← Local Point-to-Point Monitoring

HISTORY LOCAL SETTING PLANT SETTING

0913

PLANT NAME: 0913



*Suggestion size:228 x 171
*File size limit:200 KB

COUNTRY: Default

CITY: Default

SET

Connection of DC1

← Local Point-to-Point Monitoring

HISTORY CALENDAR LOCAL SETTING PLANT SETTING

0902

PLANT NAME: 0902



*Suggestion size:228 x 171
*File size limit:200 KB

COUNTRY: Default

CITY: Default

SET

4.2.2. Remote monitoring

There are five tabs in "Remote monitoring."

[Energy]



[History]

Remote Access Service

ENERGY HISTORY CALENDAR REMOTE SETTING

PLANT INVERTER

PLANT NAME : TEST

ITEMS : Startup

| Plant Name | Time |
|------------|---------------------|
| test | 2021-11-10 10:30:36 |

[Calendar]

Remote Access Service

ENERGY HISTORY CALENDAR REMOTE SETTING

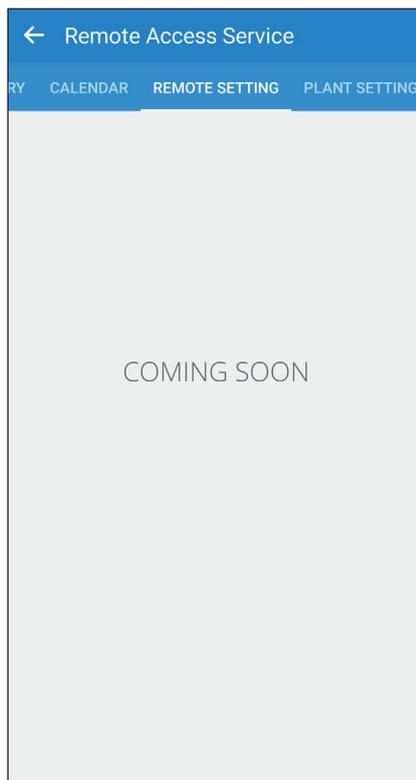
2021/11

| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
|-----|-----|-----|-----|-----|-----|-----|
| 31 | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |

(unit: Wh)

Production

[Remote Setting]



[Plant Setting]

Remote Access Service

Y CALENDAR REMOTE SETTING PLANT SETTING

PLANT BLOCK INVERTER NOTIFICATION

PLANT NAME : test

Select File Upload

COUNTRY : Taiwan

CITY : Tainan City

TIMEZONE : (GMT+08:00) Taipei,...

LATITUDE : 23.120904

LONGITUDE : 120.275870

SHARE PLANT WITH SPECIFIC PEOPLE

+ Add

Energy

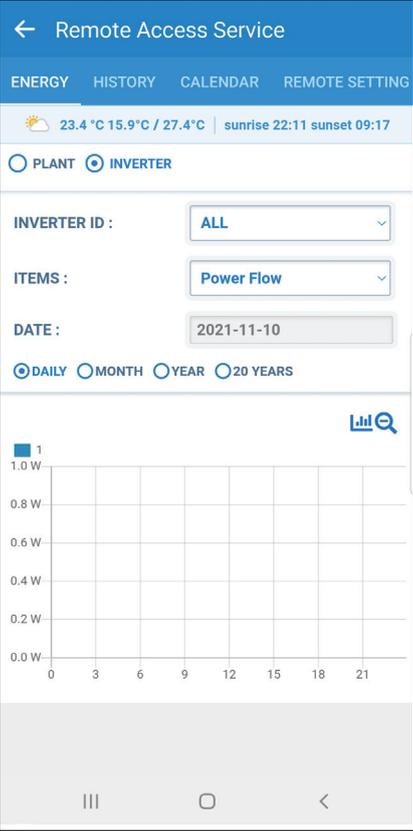
In "Energy" tab, users can check the energy production for their plant and the detail information of each inverter by selecting between Plant/ Inverter.

Connection of Inverter

[PLANT]



[INVERTER]



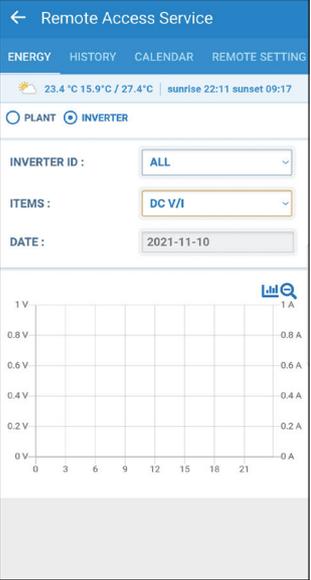
| Info. | | | | | | |
|-------|---------------|---------|--------|--------------|-------------|--|
| ID | Serial Number | Model | Status | Today Energy | Life Energy | |
| 1 | PVT206006800H | H5A_22Z | Alarm | 0.0 kWh | 0.0 kWh | |

| Input | | | |
|-------|---------|---------|-------|
| ID | Voltage | Current | Power |
| 1 | - | - | - |

| Output | | | |
|--------|---------|---------|-------|
| ID | Voltage | Current | Power |
| 1 | - | - | - |

| Meter Info. | | |
|-------------|--------------|---------------------|
| ID | Meter Status | Switching Time |
| 1 | Off | 2021-11-10 10:34:41 |

| FW Version | |
|------------|----|
| FW | FW |



Connection of DC1

[PLANT]

Remote Access Service

ENERGY HISTORY CALENDAR REMOTE SETTING

24.6 °C 15.8 °C / 27.3 °C | sunrise 06:11 sunset 17:17

PLANT DATA COLLECTOR INVERTER

DATE : 2021-11-10

DAILY MONTH YEAR 20 YEARS

Production : 0.000 kW Feed-in : 0.000 kW
Consumption : 0.000 kW Purchased : 0.000 kW
Energy : 0.000 kWh

Legend: Feed-In, Purchased, Power, Consumption

Next Update Time : 2021-11-10 15:48:56
Plant Type : Feed-in with Power Meter

[DATA COLLECTOR]

Remote Access Service

ENERGY HISTORY CALENDAR REMOTE SETTING

24.6 °C 15.8 °C / 27.3 °C | sunrise 06:11 sunset 17:17

PLANT DATA COLLECTOR INVERTER

DATA COLLECTOR : O6H20A00732WK

ITEMS : Power Flow

DATE : 2021-11-10

DAILY MONTH YEAR 20 YEARS

Legend: Feed-In, Purchased, Power, Consumption

More Info.

Power Flow

Remote Access Service

ENERGY HISTORY CALENDAR REMOTE SETTING

PLANT DATA COLLECTOR INVERTER

DATA COLLECTOR : O6H20A00732WK

ITEMS : More Info.

Info.

| Data Collector | Serial Number | Model | Meter Quantity | FW Version |
|----------------|---------------|---------|----------------|------------|
| O6H20A00732WK | O6H20A00732WK | DC1_100 | 1 | 2.03 |

Energy

| Data Collector | Today Energy | Life Energy |
|----------------|--------------|-------------|
| O6H20A00732WK | 0.0 kWh | 0.0 kWh |

[INVERTER]

Remote Access Service

ENERGY HISTORY CALENDAR REMOTE SETTING

24.6 °C 15.8 °C / 27.3 °C | sunrise 06:11 sunset 17:17

PLANT DATA COLLECTOR INVERTER

DATA COLLECTOR : O6H20A00732WK

INVERTER ID : ALL

ITEMS : Power Flow

DATE : 2021-11-10

DAILY MONTH YEAR 20 YEARS

Legend: 1

More Info.

Power Flow

DC V/I

AC V/I

Remote Access Service

ENERGY HISTORY CALENDAR REMOTE SETTING

24.6 °C 15.8 °C / 27.3 °C | sunrise 06:11 sunset 17:17

PLANT DATA COLLECTOR INVERTER

DATA COLLECTOR : O6H20A00732WK

INVERTER ID : ALL

ITEMS : More Info.

DATE : 2021-11-10

Info.

| ID | Serial Number | Model | Status | Today Energy | Life Energy |
|----|---------------|---------|--------|--------------|-------------|
| 1 | PVT206006900H | H5A_222 | Alarm | 0.0 kWh | 0.0 kWh |

Input

| ID | Voltage | Current | Power |
|----|---------|---------|---------|
| 1 | 0 / 0 V | 0 / 0 A | 0 / 0 W |

Output

| ID | Voltage | Current | Power |
|----|---------|---------|-------|
| 1 | 0 V | 0 A | 0 W |

FW Version

| ID | Comm. | DSP |
|----|-------|------|
| 1 | 88.98 | 1.02 |

Remote Access Service

ENERGY HISTORY CALENDAR REMOTE SETTING

24.6 °C 15.8 °C / 27.3 °C | sunrise 06:11 sunset 17:17

PLANT DATA COLLECTOR INVERTER

DATA COLLECTOR : O6H20A00732WK

INVERTER ID : ALL

ITEMS : DC V/I

DATE : 2021-11-10

Legend: 1 dc voltage 1, 1 dc current 1, 1 dc voltage 2, 1 dc current 2

Remote Access Service

ENERGY HISTORY CALENDAR REMOTE SETTING

24.4 °C 15.8 °C / 27.3 °C | sunrise 06:11 sunset 17:17

PLANT DATA COLLECTOR INVERTER

DATA COLLECTOR : O6H20A00732WK

INVERTER ID : ALL

ITEMS : AC V/I

DATE : 2021-11-10

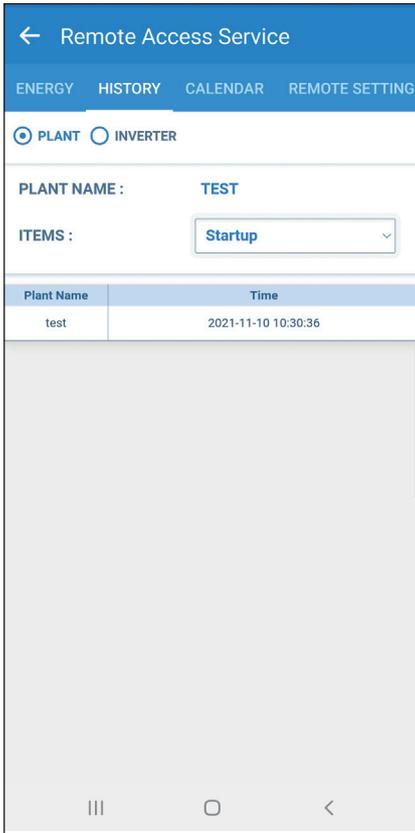
Legend: 1 ac voltage 1, 1 ac current 1

History

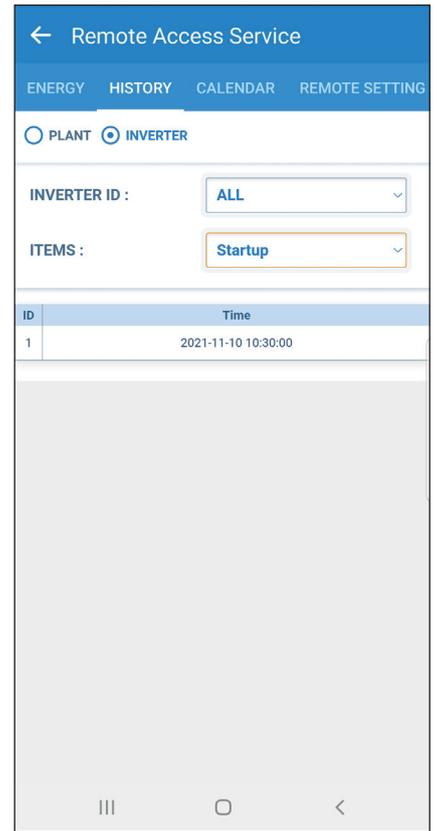
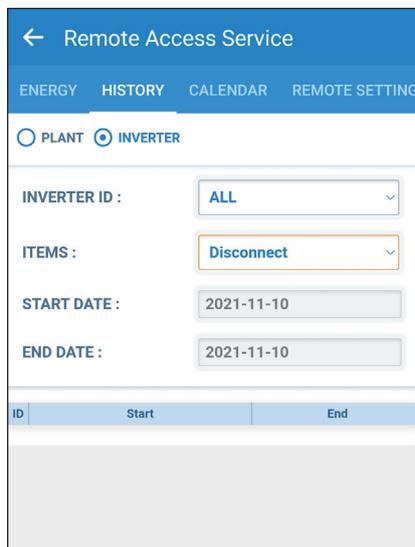
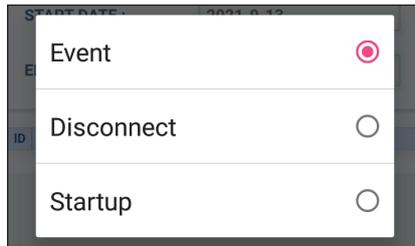
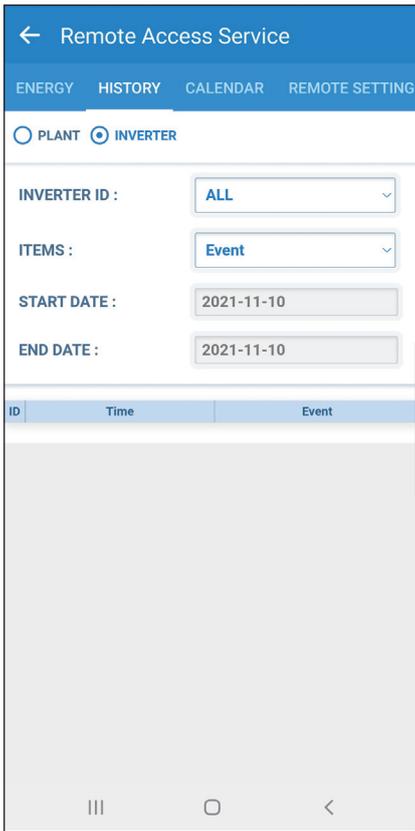
In "History" tab, users can check the startup date and the event log for each inverter by selecting between Plant/ Inverter.

Connection of Inverter

[PLANT]



[INVERTER]



Connection of DC1

[PLANT]

Remote Access Service

ENERGY HISTORY CALENDAR REMOTE SETTING

PLANT DATA COLLECTOR INVERTER

PLANT NAME : TEST

ITEMS : Startup

| Plant Name | Time |
|------------|---------------------|
| test | 2021-11-10 14:43:43 |

[DATA COLLECTOR]

Remote Access Service

ENERGY HISTORY CALENDAR REMOTE SETTING

PLANT DATA COLLECTOR INVERTER

DATA COLLECTOR : O6H20A00732WK

ITEMS : Disconnect

START DATE : 2021-11-10

END DATE : 2021-11-10

| Data Collector | Start | End |
|----------------|-------|-----|
|----------------|-------|-----|

END DATE : 2021-9-2

Disconnect

Startup

Remote Access Service

ENERGY HISTORY CALENDAR REMOTE SETTING

PLANT DATA COLLECTOR INVERTER

DATA COLLECTOR : O6H20A00732WK

ITEMS : Startup

| Data Collector | Time |
|----------------|---------------------|
| O6H20A00732WK | 2021-11-10 14:43:45 |

[INVERTER]

Remote Access Service

ENERGY HISTORY CALENDAR REMOTE SETTING

PLANT DATA COLLECTOR INVERTER

DATA COLLECTOR : O6H20A00732WK

INVERTER ID : ALL

ITEMS : Event

START DATE : 2021-11-10

END DATE : 2021-11-10

| ID | Time | Event |
|----|---------------------|--|
| 1 | 2021-11-10 14:55:19 | Internal Communication Fault (between Display) (F23) |
| 1 | 2021-11-10 14:38:07 | Failsafe (F114) |

START DATE : 2021-11-10

Event

Disconnect

Startup

Remote Access Service

ENERGY HISTORY CALENDAR REMOTE SETTING

PLANT DATA COLLECTOR INVERTER

DATA COLLECTOR : O6H20A00732WK

INVERTER ID : ALL

ITEMS : Disconnect

START DATE : 2021-11-10

END DATE : 2021-11-10

| ID | Start | End |
|----|-------|-----|
|----|-------|-----|

Remote Access Service

ENERGY HISTORY CALENDAR REMOTE SETTING

PLANT DATA COLLECTOR INVERTER

DATA COLLECTOR : O6H20A00732WK

INVERTER ID : ALL

ITEMS : Startup

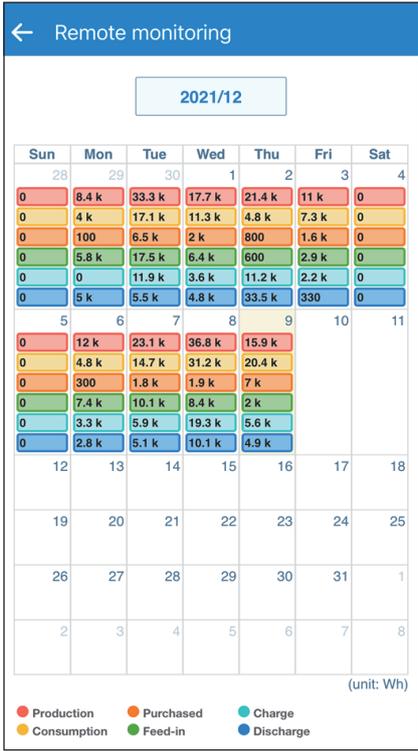
| ID | Time |
|----|---------------------|
| 1 | 2021-11-10 14:45:00 |

CALENDAR

Connection of Inverter



Connection of DC1



Plant Setting

Connection of Inverter

PLANT: Users can change plant info and share plant info with others.

BLOCK : Users can group several devices into a block and the information of the block will be shown in Energy tab.

INVERTER : Users can check ID, S/N of the devices.

NOTIFICATION : Users can set up multiple email account and the cloud will send fault/ error notification of the plant to these email addresses.

[PLANT]

[BLOCK]

[INVERTER]

[NOTIFICATION]

Connection of DC1

PLANT: Users can change plant info and share plant info with others.

BLOCK : Users can group several devices into a block and the information of the block will be shown in Energy tab.

DATA COLLECTOR : Users can check ID and serial number of the DC1.

INVERTER : Users can check ID, S/N of the inverter.

NOTIFICATION : Users can set up multiple email account and the cloud will send fault/ error notification of the plant to these email addresses.

[PLANT]

[BLOCK]

[DATA COLLECTOR]

[INVERTER]

[NOTIFICATION]

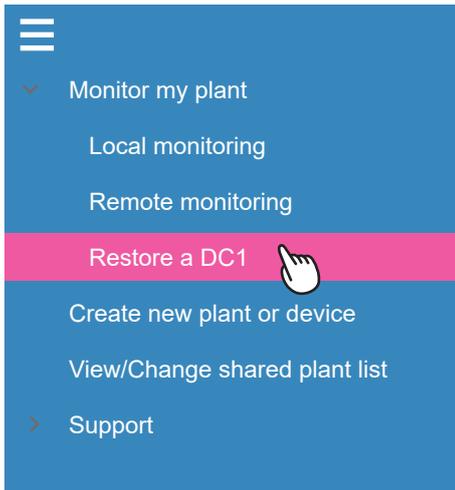
4.2.3. Restore a DC1

ATTENTION



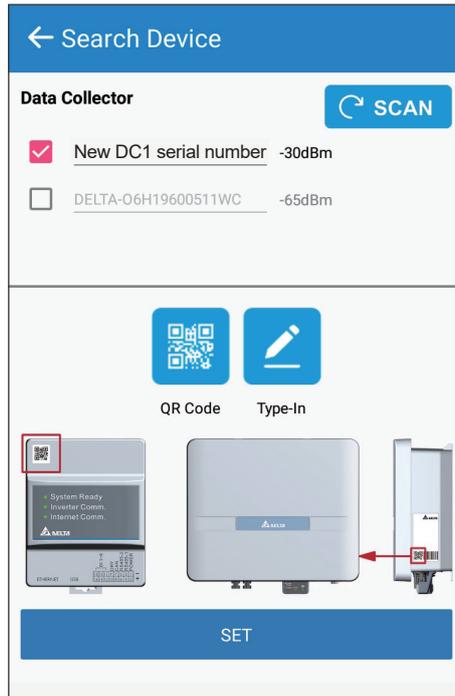
- Before restoring DC1, please backup the data from old DC1 (refer to chapter 5.4).
- Please insert the USB with the backup file to a new DC1 and start to restore.

Click Menu --> Restore a DC1

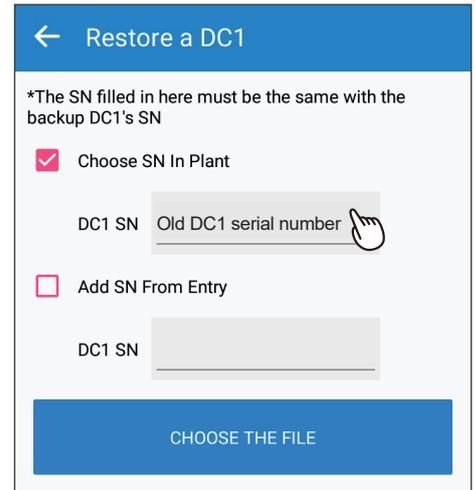


Please insert the USB with the backup file to a new DC1 and start to restore.

Select the serial number of the new DC1.

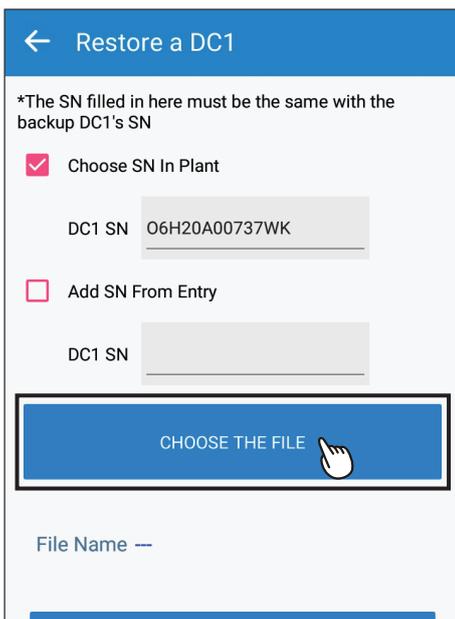


Select the serial number of the old DC1.

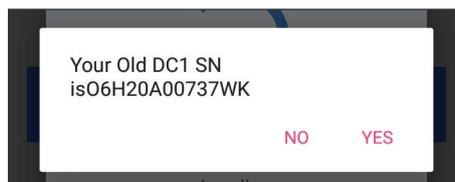


if the serial is not on the list, users can try to type in the S/N manually.

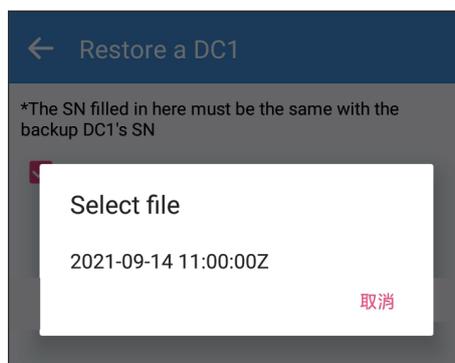
Click "CHOOSE THE FILE"



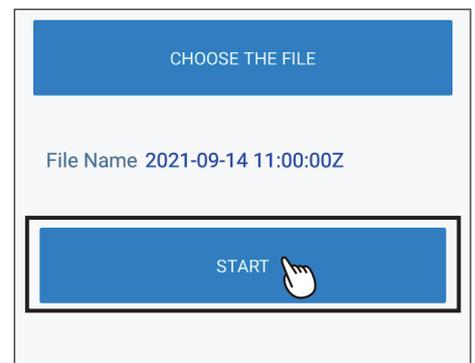
Confirm the serial number of the old DC1.



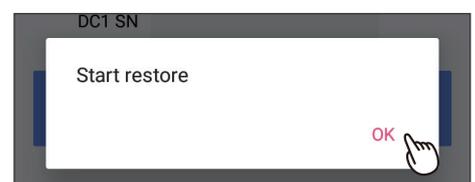
Select the backup file.



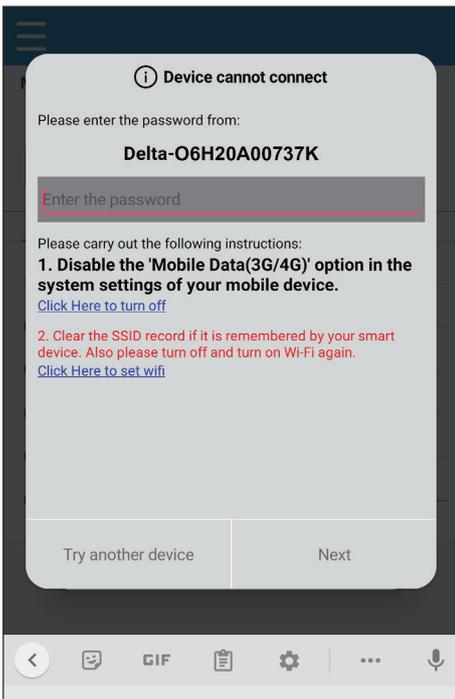
Check if the file is correct, then click "Start".



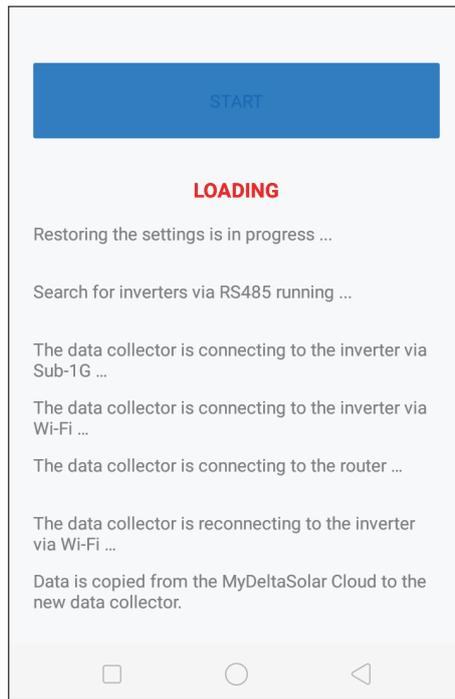
Click "OK"



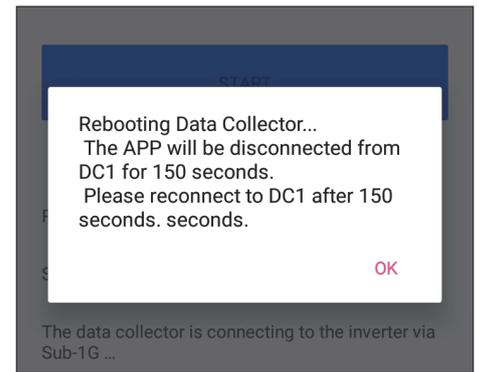
Type in the password of the old DC1.



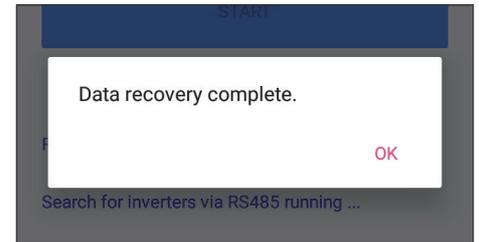
Starting the restore process.



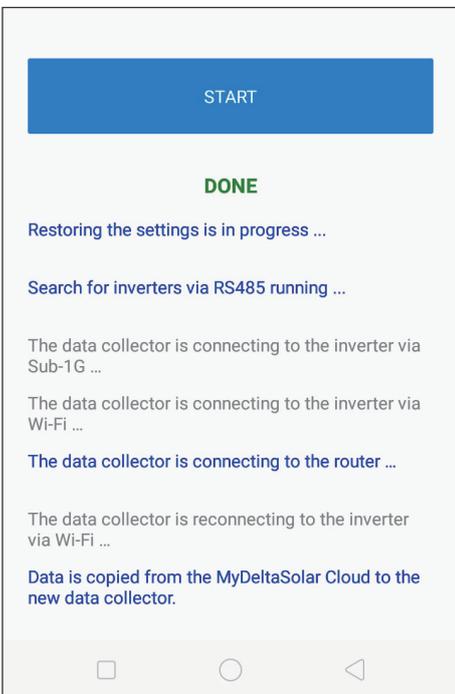
Restoring takes around 150 sec. Click "OK" to proceed.



Data recovery complete.



DONE.



4.3. Create new plant or device

For more details, please refer to Chapter 2 "Commissioning".

The screenshot displays the MyDeltaSolar Cloud user interface. On the left is a blue sidebar menu with the following items: 'Monitor my plant' (with sub-items 'Local monitoring', 'Remote monitoring', and 'Restore a DC1'), 'Create new plant or device' (highlighted in pink with a hand cursor), 'View/Change shared plant list', 'Support' (with sub-items 'Announcement', 'Manual', and 'Contact us'). The main dashboard area shows the user 'happy user' and the title '[MyDeltaSolar Cloud]'. It features a 'TODAY ENERGY' section with a sun icon, a line graph, and the text '620.9 kWh' and 'Total : 245.0 MWh'. Below this are tabs for 'TODAY', 'MONTH', 'YEAR', and '20 YEARS'. A legend identifies data series: Power (red), Purchased (orange), Feed-In (green), Consumption (yellow), Charge (light blue), and Discharge (dark blue). A line chart shows power flow over a 24-hour period, with a peak of approximately 100 kW around noon. At the bottom, three plant cards are shown: 'Karapinar' (Tainan, Taiwan) with 38.8 kWh, 'IBARAKI' (Tainan, Taiwan) with - kWh, and 'Floating' (Chiayi, Taiwan) with 20.4 kWh.

4.4. View/Change shared plant list

User (owner) can arrange the authority for others. An account who has the authority to check the plant can view the shared plant list here. *Only a plant owner can edit the shared plant list.

Function accessibility list

| Authority / Function | Owner | Manager | Viewer |
|------------------------|--|---------|--------|
| View plant information | ✓ | ✓ | ✓ |
| View share list | ✓ | ✓ | ✓ |
| Plant setting (Remote) | ✓ | ✓ | 🔒 |
| Plant setting (Local) | Password needed, please contact local service. | | |
| Change device password | ✓ | 🔒 | 🔒 |
| Edit share list | ✓ | 🔒 | 🔒 |

test Select the plant to be edited.

Click here to check the function accessibility

Edit the authority list

Share plant with specific people

Demo E-mail@exa... M... x

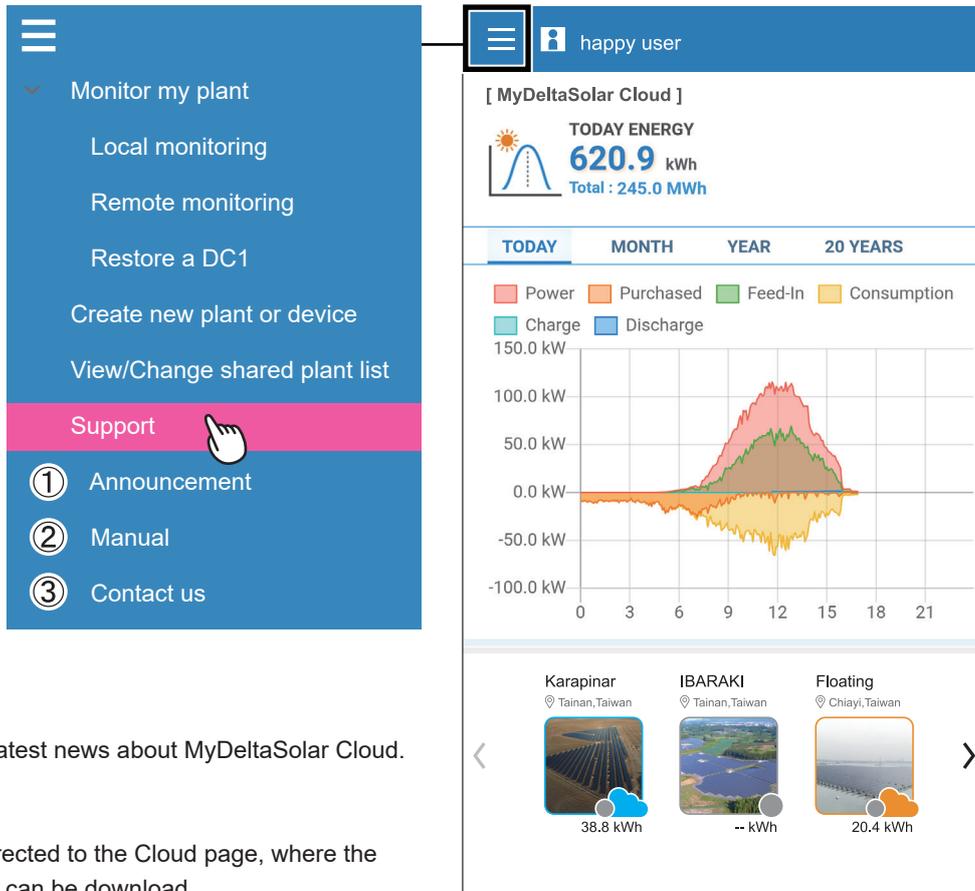
+

Send

* The plant owner can add another account also as a plant owner (Maximum number of owners: 2).
 * If a shared account has not registered to MyDeltaSolar Cloud, the Cloud will send an invitation email to them.

4.5. Support

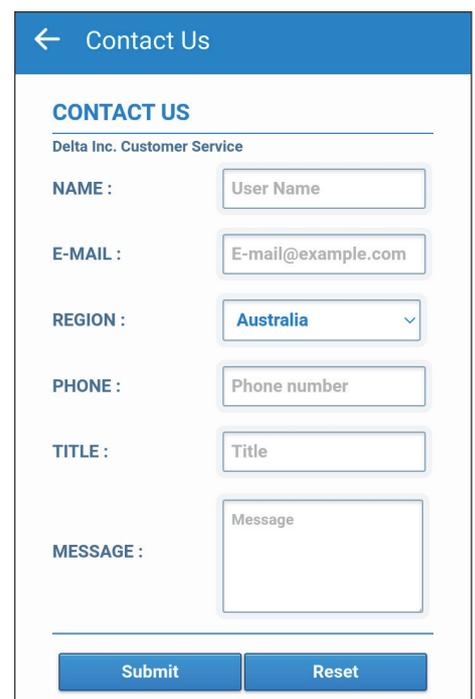
There are three options in "Support": "Announcement", "Manual" and "Contact us".



① Announcement
Publishing the latest news about MyDeltaSolar Cloud.

② Manual
Users will be directed to the Cloud page, where the device manuals can be download.

③ Contact us
With Internet ability : please fill in the request form and submit to the customer service.
Without Internet ability : please contact the local contact window shown on APP.



5. Application

This chapter shows the setup of some typical functions, including communication modes of DC1, I-V curve function and dynamic power control function (export & generation limit).

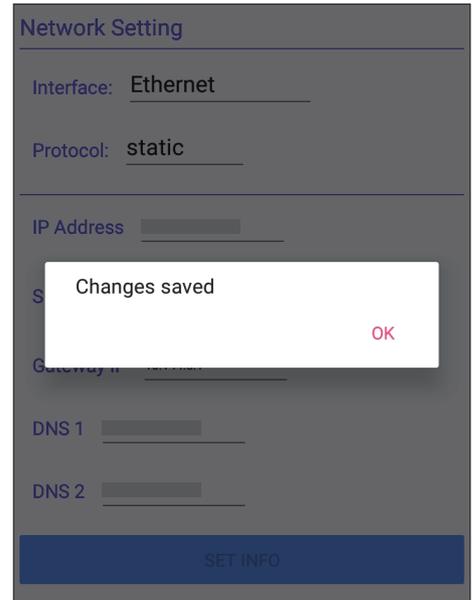
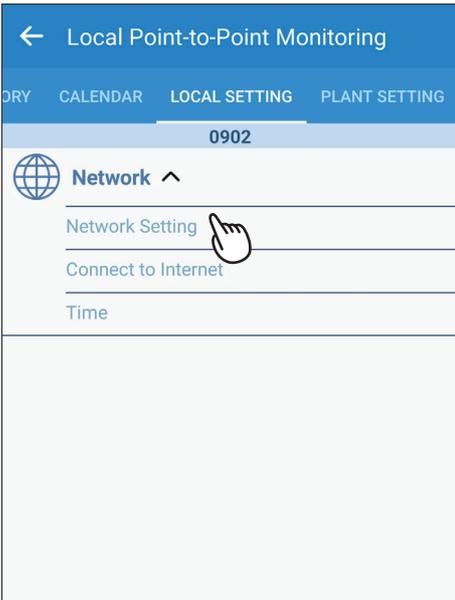
5.1. Modbus TCP/IP

If the communication protocol of DC1 is Modbus TCP/IP, please follow the process below to set up the IP address.

LOCAL SETTING -> Network
-> Network Setting

Select "static" for Protocol, after setting the IP information, click "SET INFO".

Click "OK" to save the settings.



Interface

Ethernet or Wi-Fi

Protocol

dhcp

System will automatically assign an IP address.

static

1. IP Address: Please enter a specified IP address.
2. Subnet Mask: Please enter a subnet mask.
3. Gateway IP: Please enter the IP address of the router.
4. DNS1: Please enter DNS1 for the network.
5. DNS2: Please enter DNS2 for the network.
6. Click "SET INFO" to complete the setup.

IP Address

Set the IP to be specified for third-party monitoring.

Subnet Mask

Set the Mask to be specified for third-party monitoring.

Gateway IP

Set the Gateway to be specified for third-party monitoring.

DNS1

If DC1 has no external connection requirements, you do not need to fill it out. If yes, fill in the DNS that can be used.

DNS2

Same as DNS1, this is the alternate DNS.

Click "SET INFO" to complete the setup.

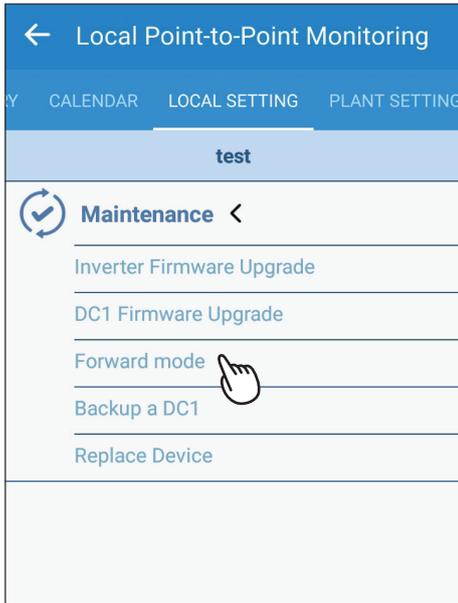
Read the external communication address via this IP.

5.2. Modbus RTU (Forward mode)

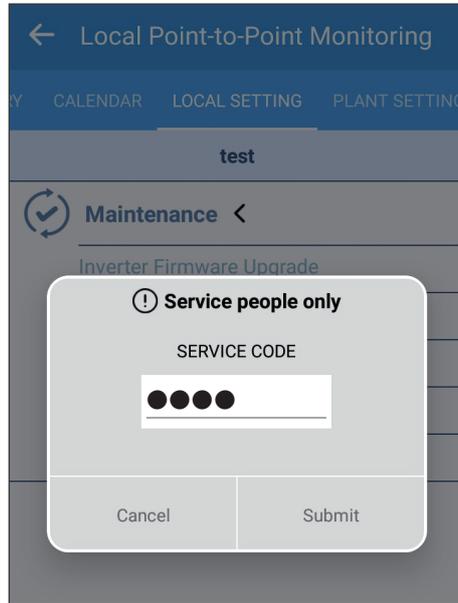
* Please contact local service for the password

Forward mode is suitable for third party monitoring systems which have already integrated Delta Modbus RTU protocol in.

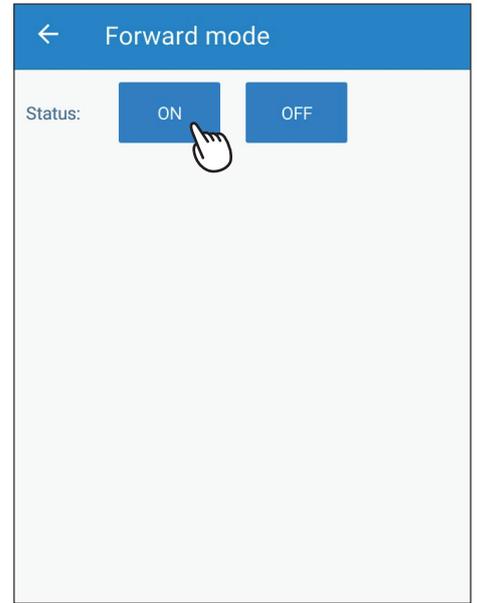
LOCAL SETTING -> Maintenance
-> Forward mode



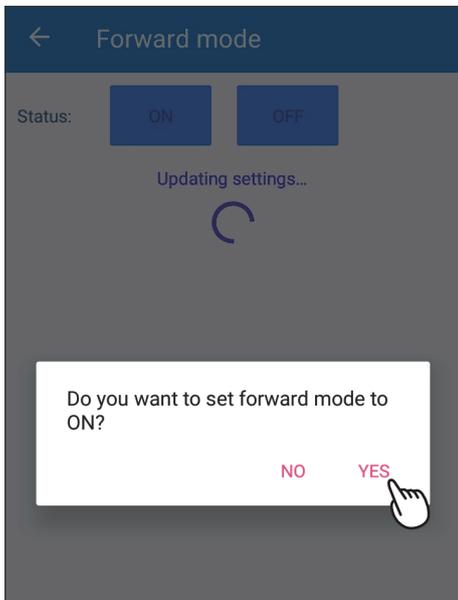
Please contact Delta local service for the password.



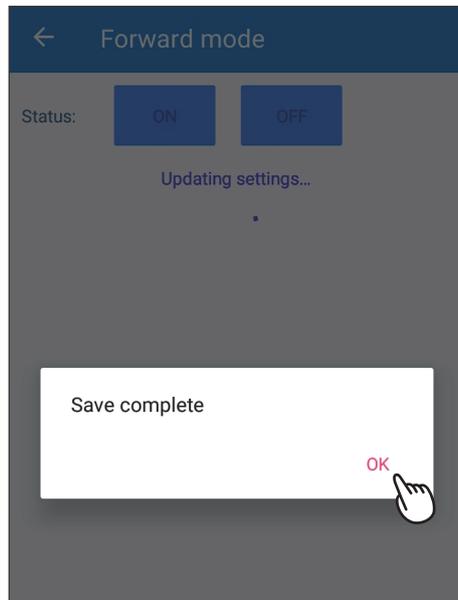
Click "OK" to save the settings.



Click "YES".



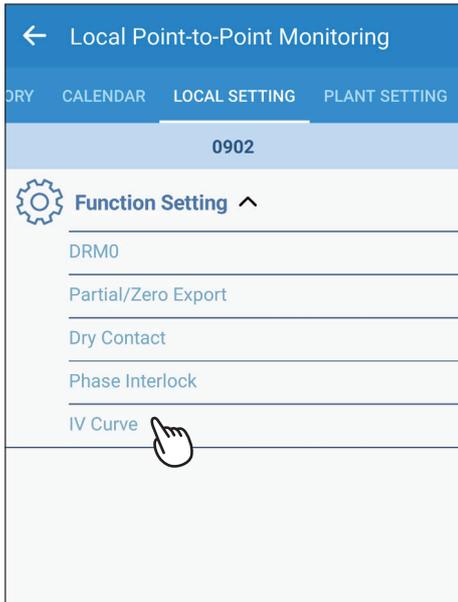
Save complete.



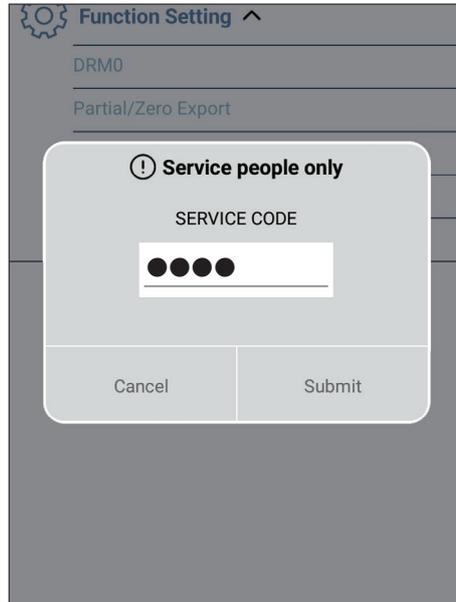
5.3. IV Curve

* Please contact local service for the password

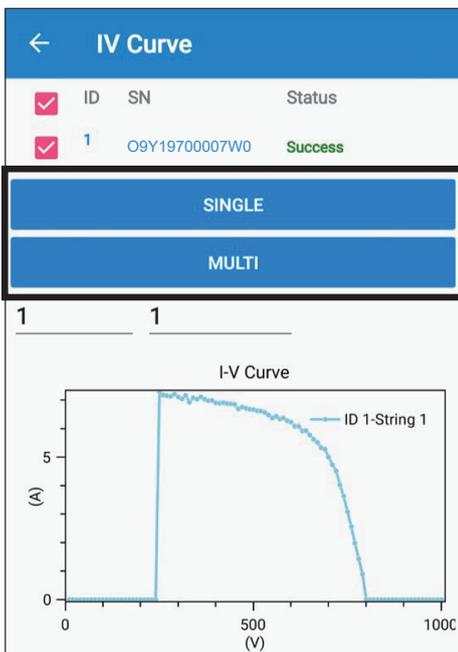
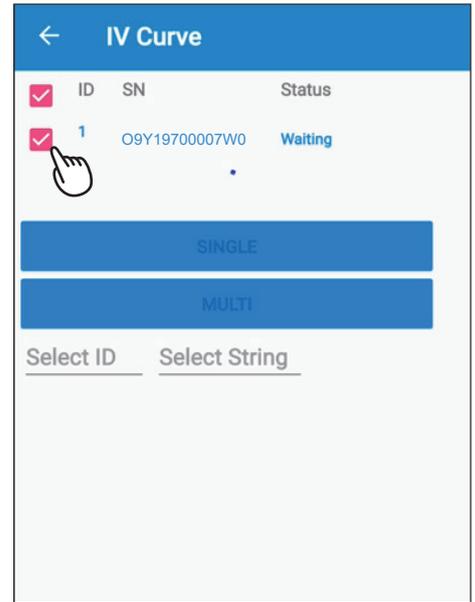
LOCAL SETTING -> Maintenance
-> Forward mode



Please contact Delta local service for the password.



Check the inverter for IV curve scan.



a. Click "SINGLE", DC1 will scan the IV curve one by one.

b. Click "MULTI", DC1 will scan the IV curve for all inverters at once.

*We suggest to use "SINGLE" in order to avoid power drop of your plant.

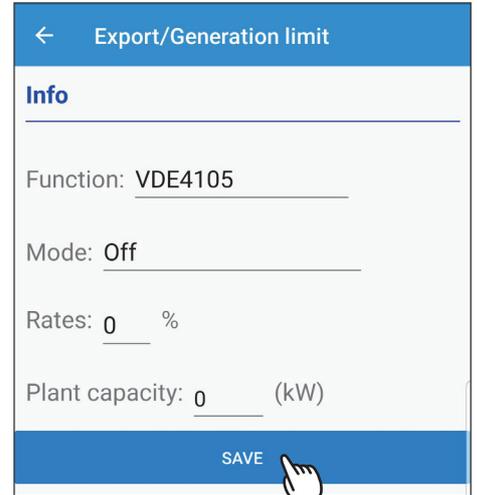
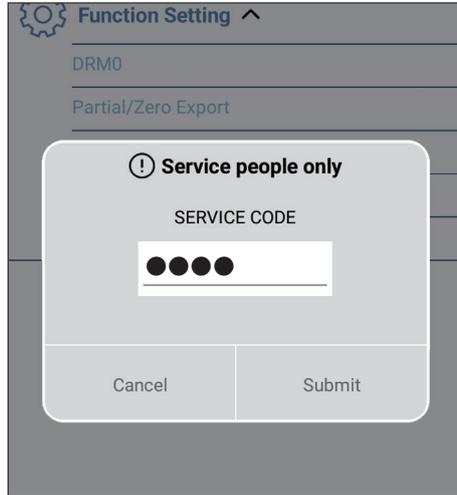
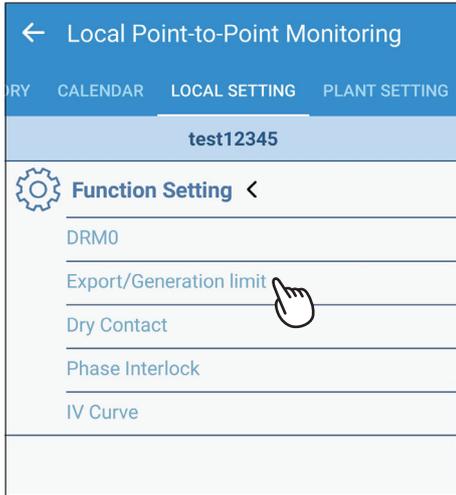
5.4. Dynamic Power Control (Export Limit Control & Generation Limit Control)

DC1

LOCAL SETTING -> Maintenance
-> Export/Generation Limit

Please contact Delta local service for the password.

Please select the suitable function accordingly, then fill in the required setting and click "SAVE".



Function: Operation base on different regulation.
Mode: To enable or disable the function
Rates & Plant capacity: Setting of the export power (Allowable export power = Plant capacity x Rates)

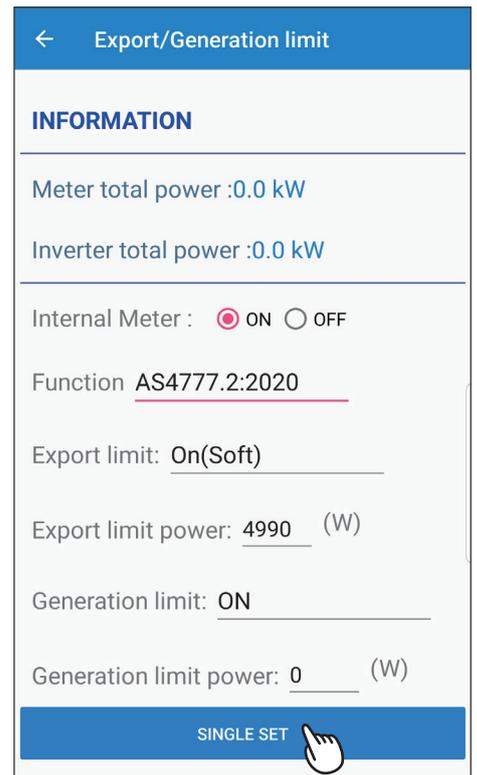
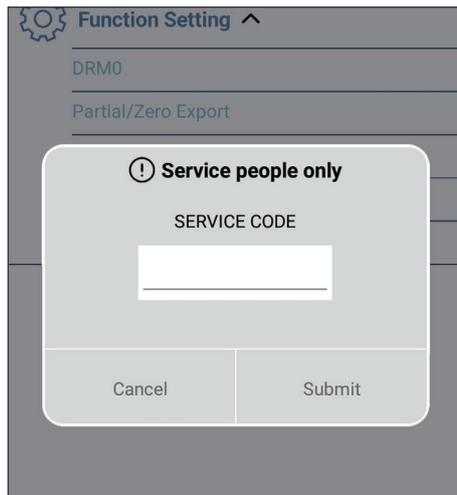
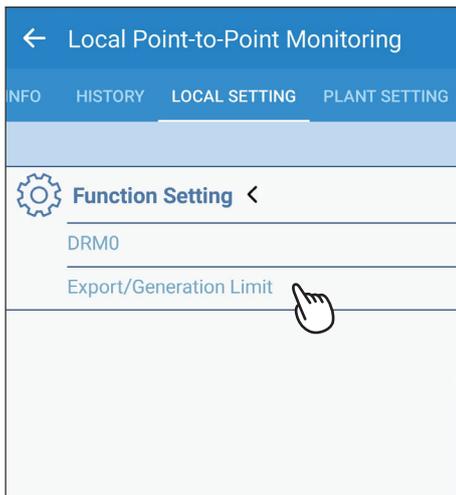
Flex Inverter

For those models in AU/NZ with built-in power meter, export limit and generation limit can be achieved without additional external power meter. Setting as shown as follows:

LOCAL SETTING -> Maintenance
-> Export/Generation Limit

Please contact Delta local service for the password.

Make sure the Internal Meter is set "ON", turn on the required function and click "Single SET".



Internal Meter: Should be set ON to apply power limit control function
Function: Set in default based on the country setting
Export limit: To enable or disable the function
Export limit power: Allowable export power
Generation limit: To enable and disable the function
Generation limit power: Allowable generation power

6. Maintenance

This chapter describes different maintaining processes for plants with Delta inverters, such as firmware update, inverter replacement, etc.

6.1. Firmware update

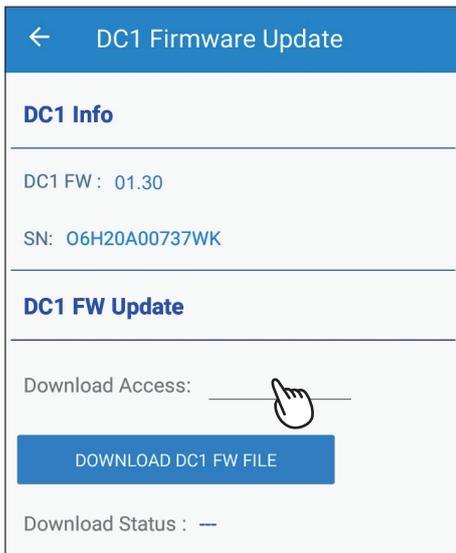
This section shows how to update the firmware for DC1 and WiFi inverter. Please refer to 6.1.1 and 6.1.2 for more details.

6.1.1. DC1 Firmware Update

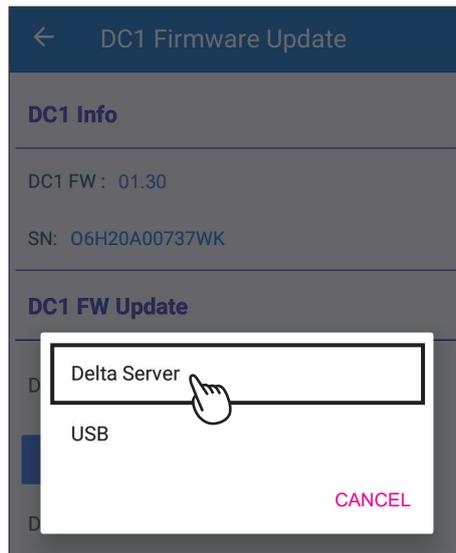
[DC1 Firmware Update - Delta Server update method]

LOCAL SETTING -> Maintenance -> DC1 Firmware Update

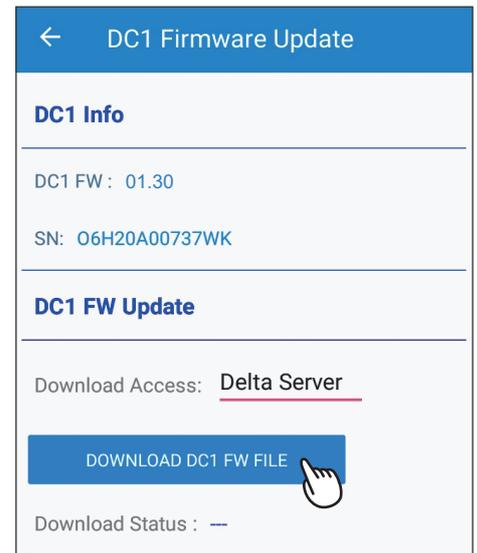
Select Download Access.



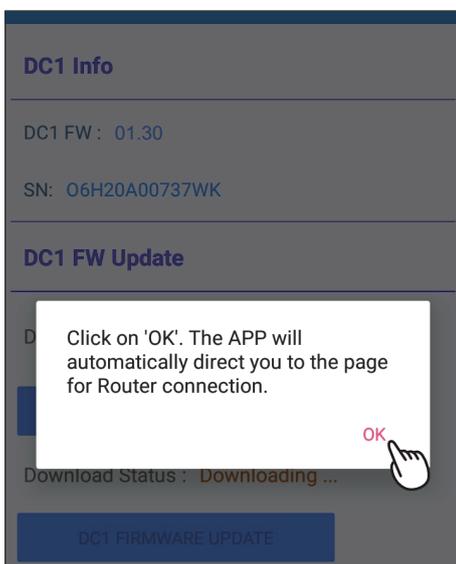
Click "Delta server".



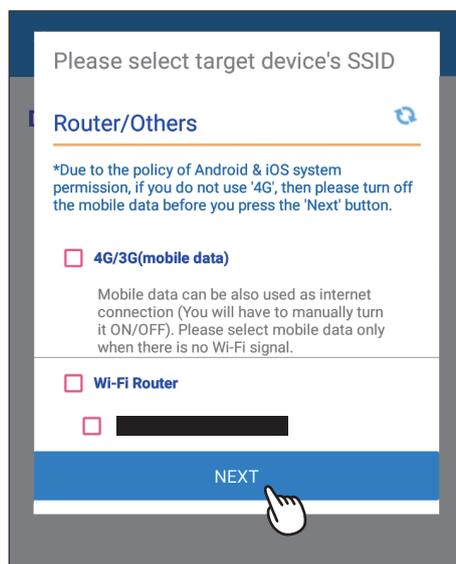
Click "DOWNLOAD DC1 FW FILE".



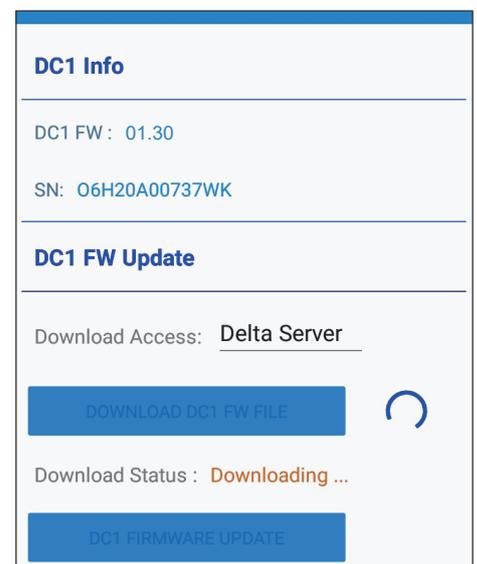
Click "OK".



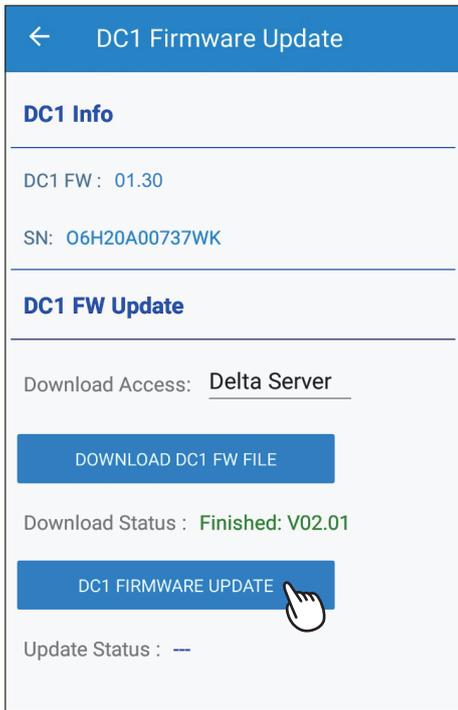
Select a method to get Internet ability.



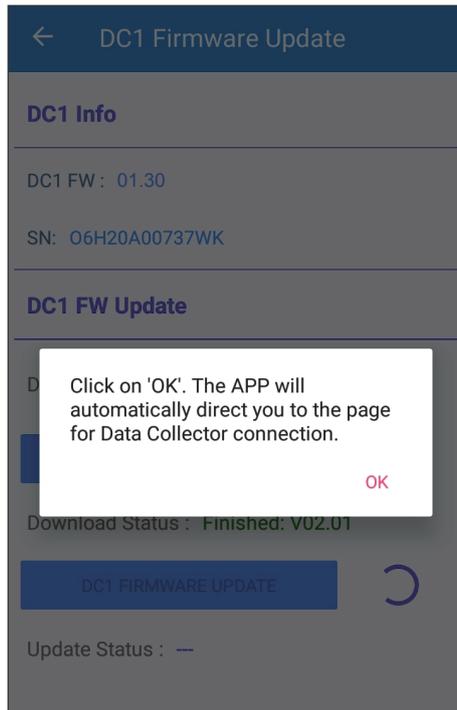
Downloading...



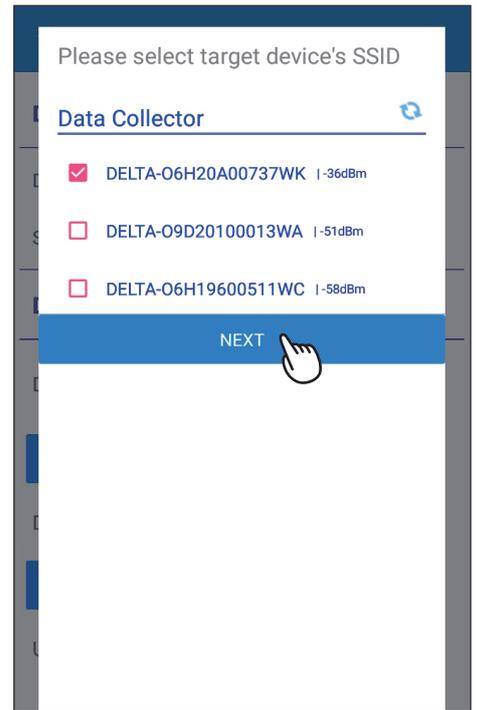
After the FW download, please click "DC1 FIRMWARE UPDATE" to start the updating process.



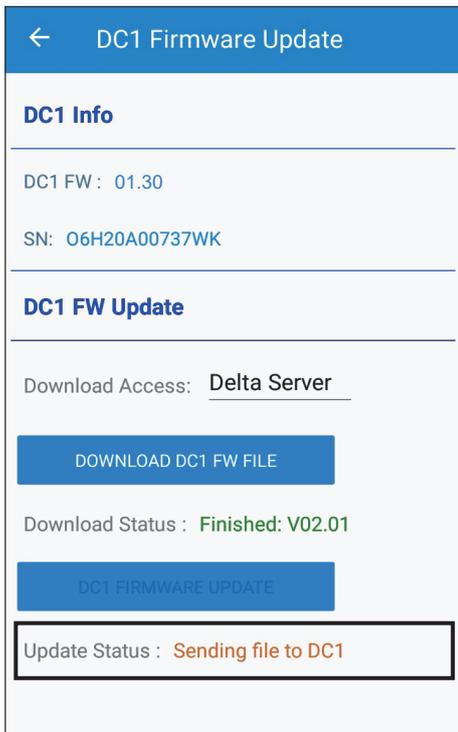
Click "OK".



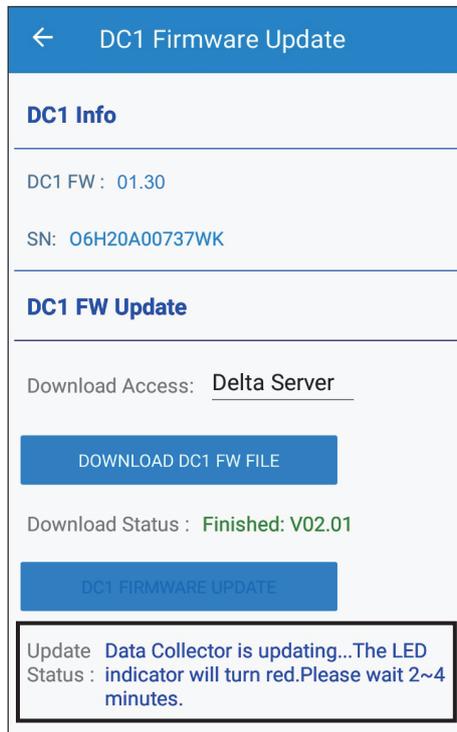
Select the serial number of DC1.



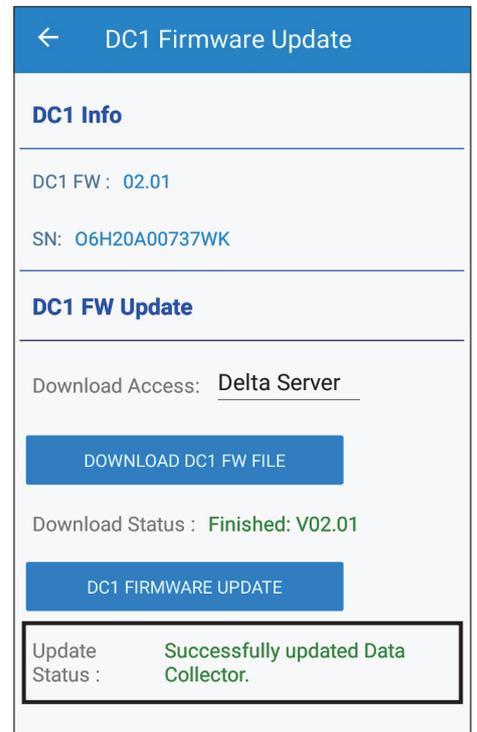
Sending file to DC1...



DC1 is updating...



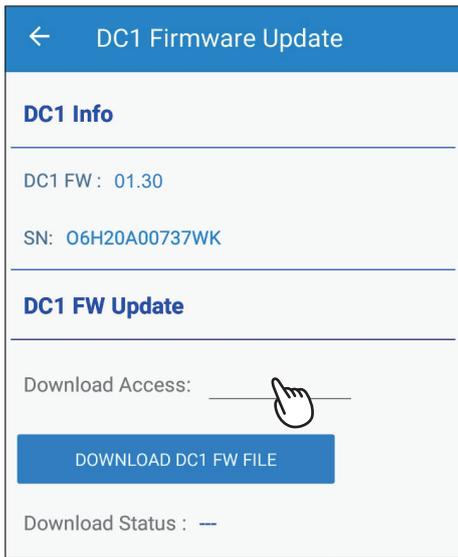
Successfully updated DC1.



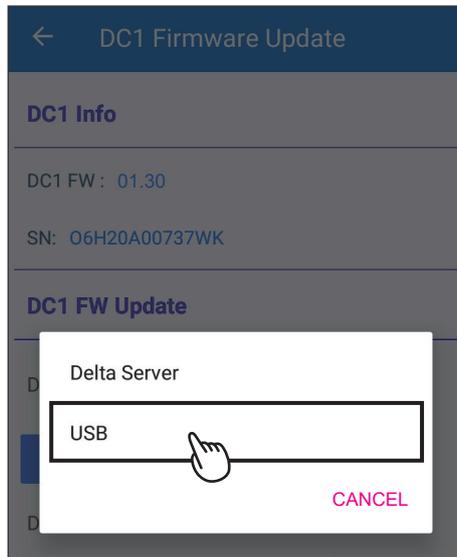
[DC1 Firmware Update - USB update method]

LOCAL SETTING -> Maintenance -> DC1 Firmware Update

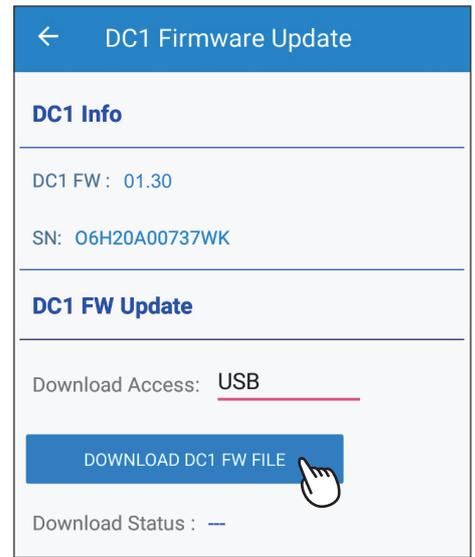
Select Download Access.



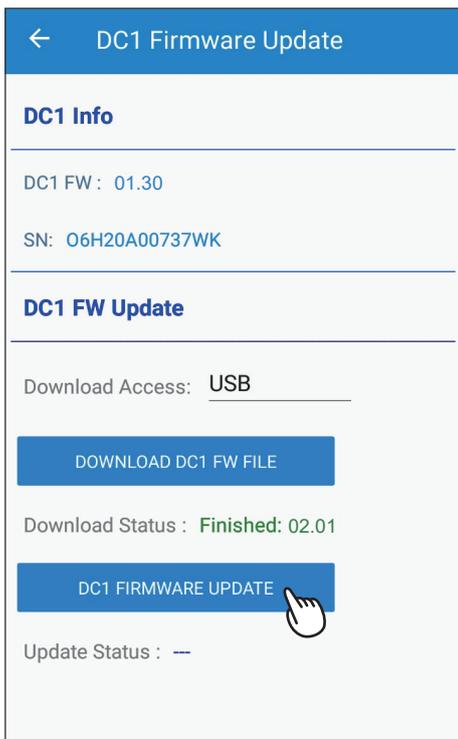
Click "USB".



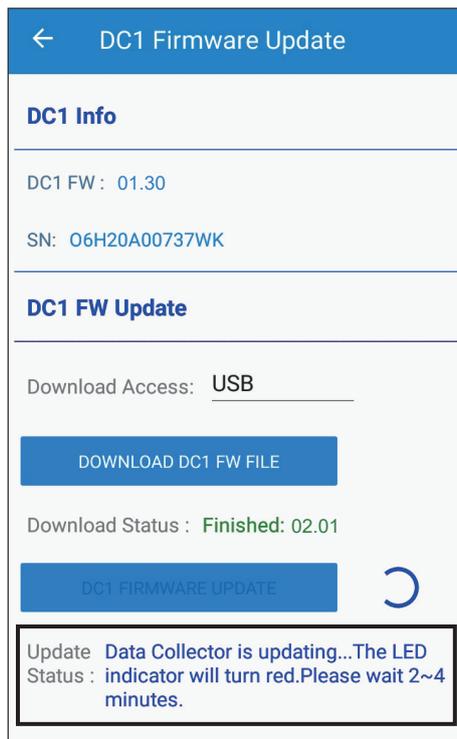
Click "DOWNLOAD DC1 FW FILE".



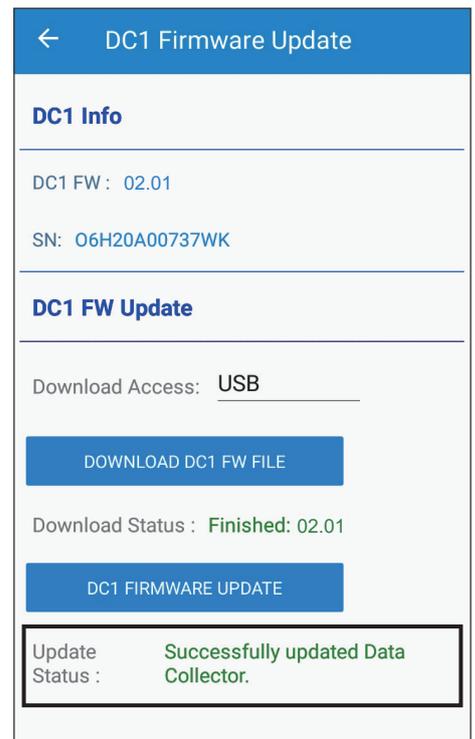
After the FW download, please click "DC1 FIRMWARE UPDATE" to start the updating process.



DC1 is updating...



Successfully updated DC1.

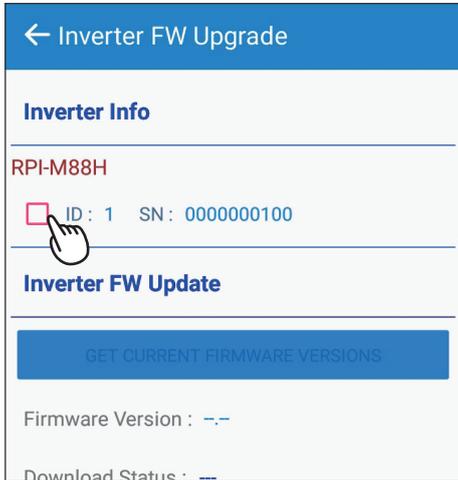


6.1.2. Inverter FW Update

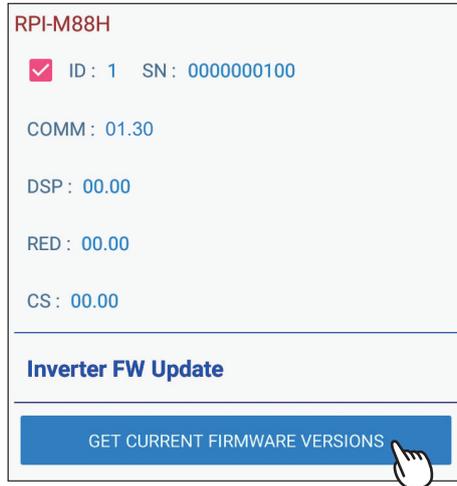
[Inverter FW Update - connection of DC1]

LOCAL SETTING -> Maintenance -> Inverter Firmware Update

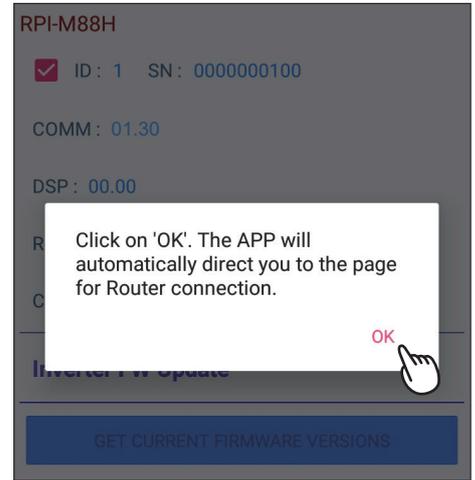
Select the Inverter S/N for FW update.



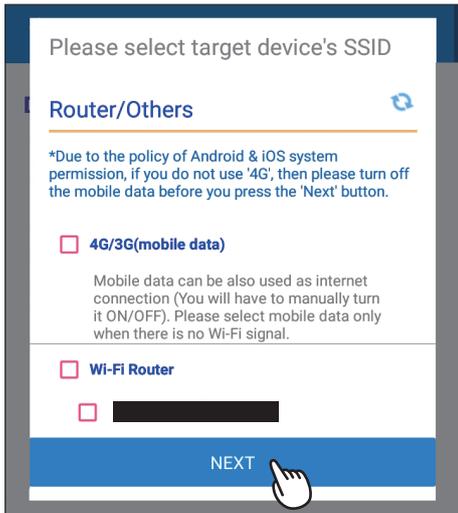
Click "GET CURRENT FIRMWARE VERSIONS".



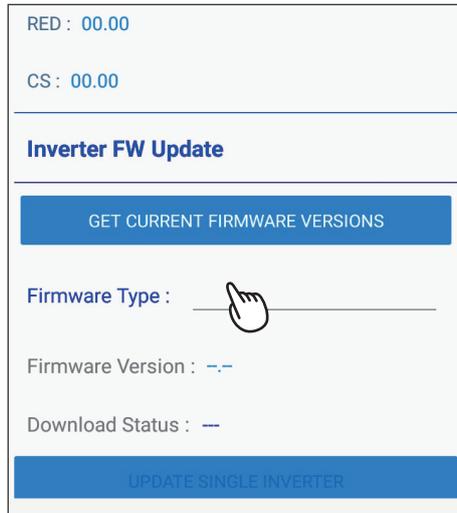
Click "OK".



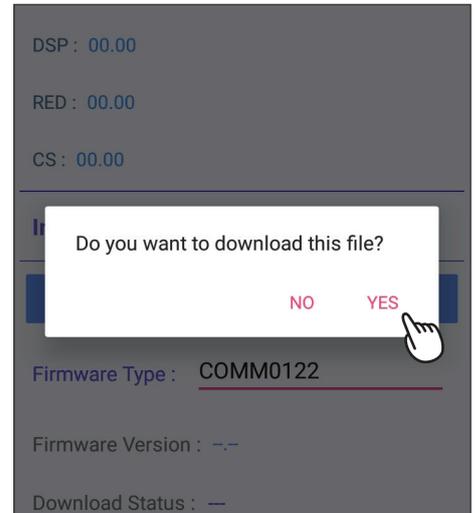
Select a method to get Internet ability.



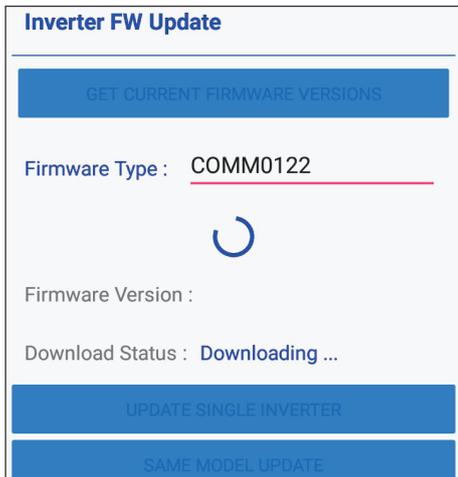
Select FW type, please confirm with local service for the FW type.



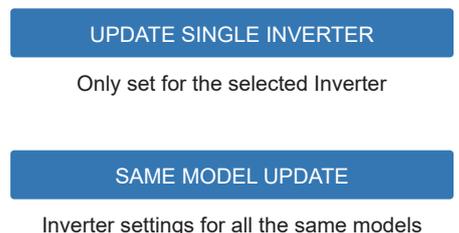
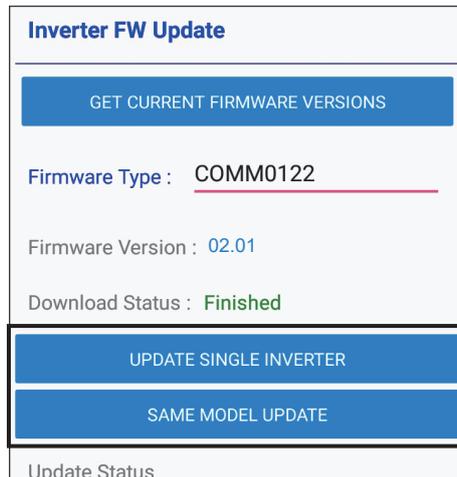
Click "YES".



Downloading...



After download complete, please click "UPDATE" to start process.



Click "OK".

DSP : 00.00
RED : 00.00
CS : 00.00

Click on 'OK'. The APP will automatically direct you to the page for Data Collector connection.

OK

Firmware Type : COMM0122

Firmware Version : 01.22

Download Status : Finished

UPDATE SINGLE INVERTER

Updating...

CS : 00.00

Please wait...

Success
DC1 is updating inverter firmware version.
Please wait about 35 seconds and APP will refresh the page

SAME MODEL UPDATE

Success.

Inverter FW Update

GET CURRENT FIRMWARE VERSIONS

Firmware Type : _____

Firmware Version : 02.01

Download Status : Finished

UPDATE SINGLE INVERTER

SAME MODEL UPDATE

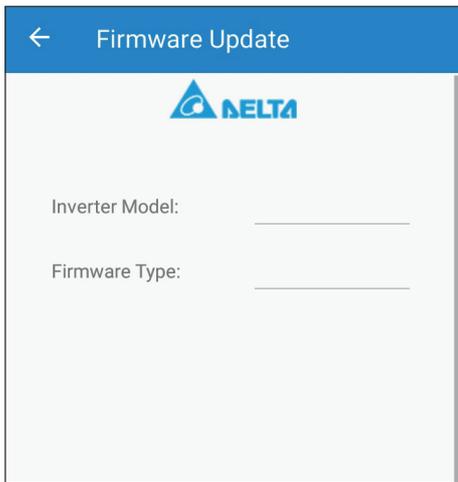
Update Status

Success

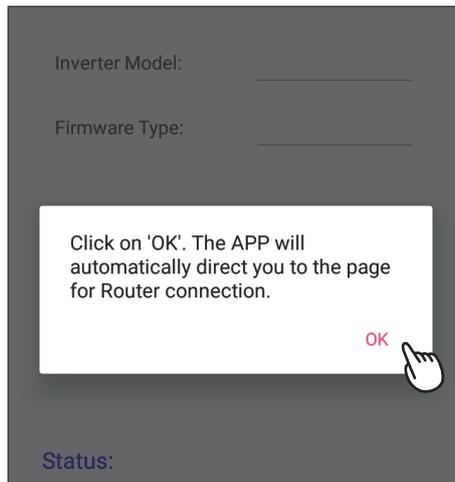
[Inverter FW Update - connection of inverter]

LOCAL SETTING -> Maintenance -> Firmware Update

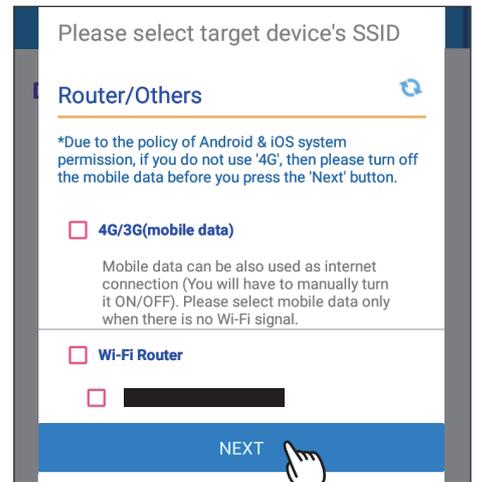
Enter Firmware update page.



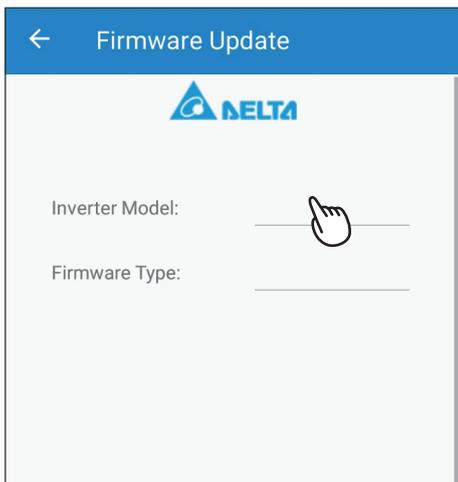
Click "OK" the app will ask users to connect to Internet.



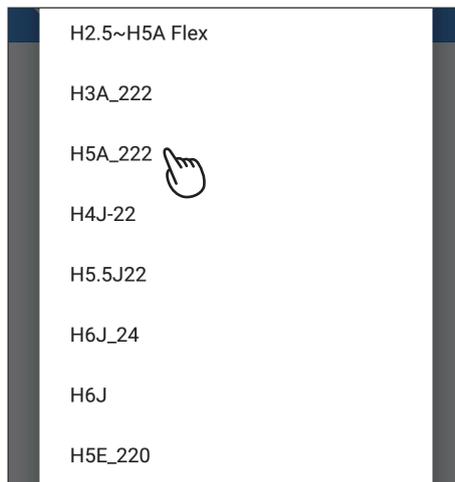
Select a method to get Internet ability.



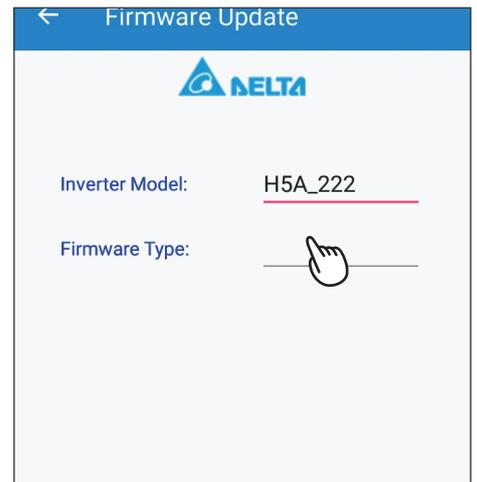
Click "Inverter Model".



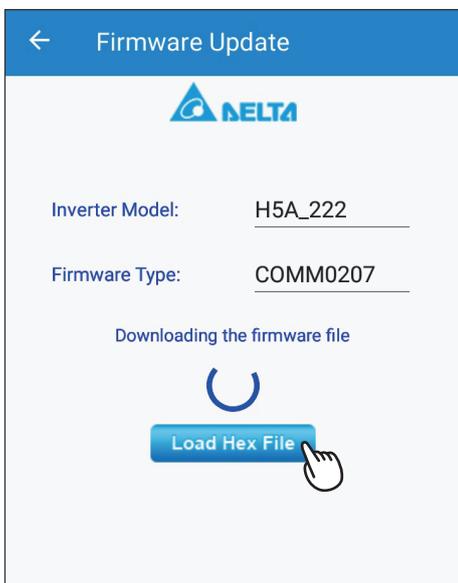
Select a Inverter model for FW update.



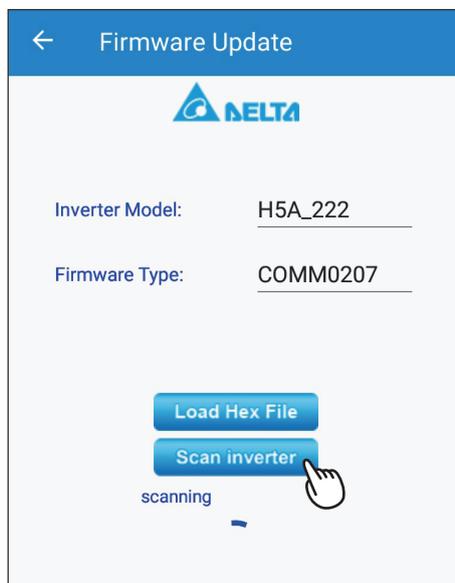
Select FW type, please confirm with local service for the FW type.



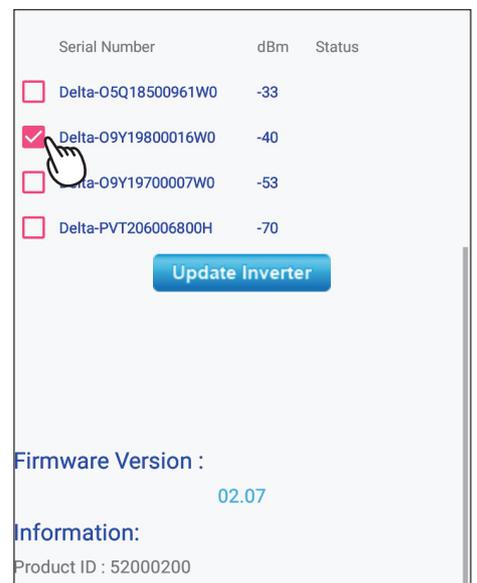
Click "Load Hex File".



After downloading complete, click "Scan inverter".



Select the Inverter serial number for FW update.



Click "Update Inverter".

Firmware Update

| Serial Number | dBm | Status |
|---|-----|---------------------------------|
| <input type="checkbox"/> Delta-05Q18500961W0 | -33 | |
| <input checked="" type="checkbox"/> Delta-09Y19800016W0 | -40 | Checking connection of inverter |
| <input type="checkbox"/> Delta-09Y19700007W0 | -53 | |
| <input type="checkbox"/> Delta-PVT206006800H | -70 | |

Update Inverter

Firmware Version : 02.07

Information:
Product ID : 52000200
Processor : 0
Start address : 08020000
Stop address : 080FFFFF
Checksum : 0x064F
OK

Upgrading...

Firmware Update

| Serial Number | dBm | Status |
|---|-----|-----------|
| <input type="checkbox"/> Delta-05Q18500961W0 | -33 | |
| <input checked="" type="checkbox"/> Delta-09Y19800016W0 | -40 | Upgrading |
| <input type="checkbox"/> Delta-09Y19700007W0 | -53 | |
| <input type="checkbox"/> Delta-PVT206006800H | -70 | |

Transmission: 8% 136

Firmware Version : 02.07

Information:
TCPGetPIDCmd done
ReqBoot1Tcp done
ReqBoot2Tcp done
ProcessorSelectTCP done
BankSelectTCP done
InternalProcTCP done

Click "OK".

Scan inverter

If your device is not on the list. Please click on scan and move closer to your device.

| Serial Number | dBm | Status |
|---|-----|---------|
| <input type="checkbox"/> Delta-05Q18500961W0 | -33 | |
| <input checked="" type="checkbox"/> Delta-09Y19800016W0 | -40 | Success |
| <input type="checkbox"/> Delta-09Y19700007W0 | -53 | |
| <input type="checkbox"/> Delta-PVT206006800H | -70 | |

Update Inverter

Firmware Version : 02.07

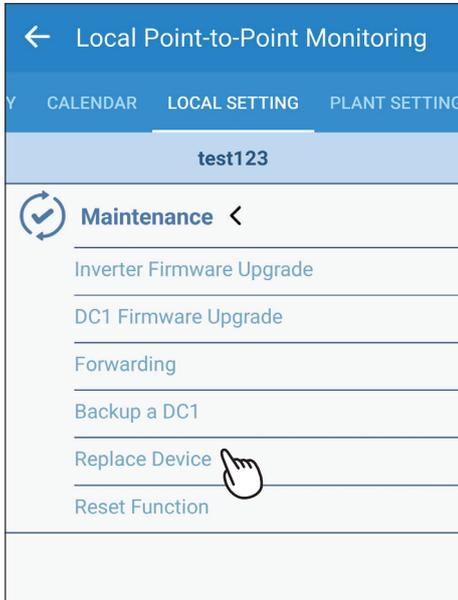
Information:
BurnProcessTCP done
BankCloseProcTCP done
BurnDoneProcTCP done
InternalProcTCP_final done
Total Tx Len :227968

6.2. Replace inverter

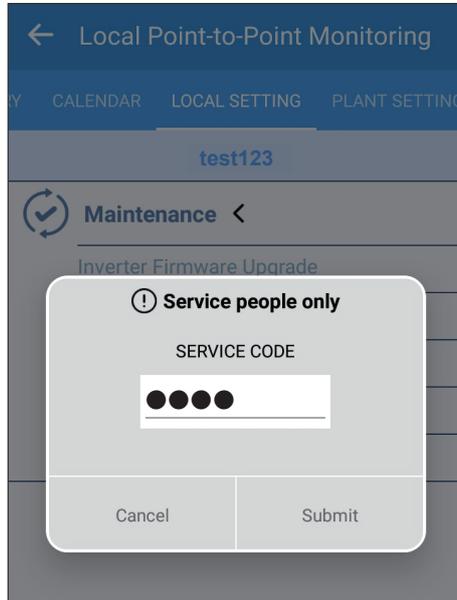
* Please contact local service for the password

This section describes how to replace a inverter when it is registered under a DC1.

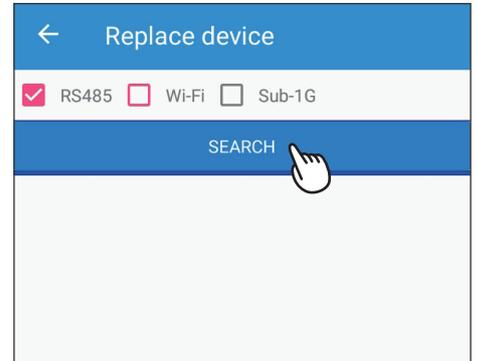
LOCAL SETTING -> Maintenance
-> Replace Device



Please contact Delta local service for the password.

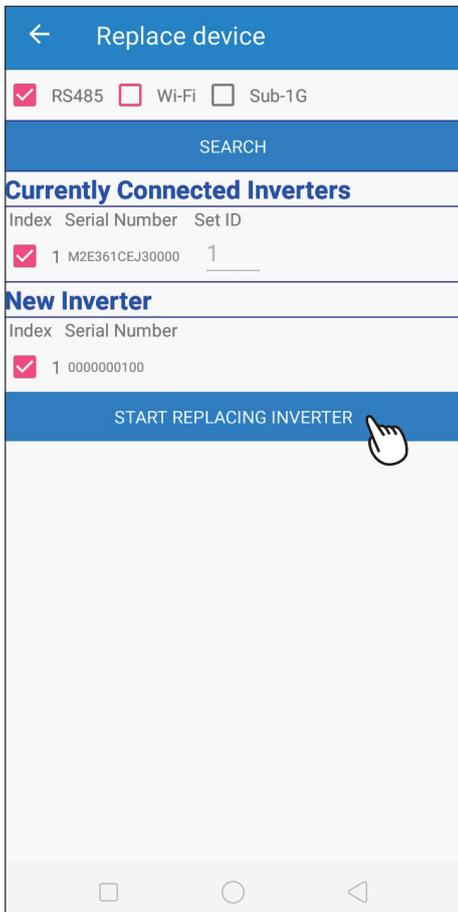


Select the connection method of DC1 and inverter then click "SEARCH".

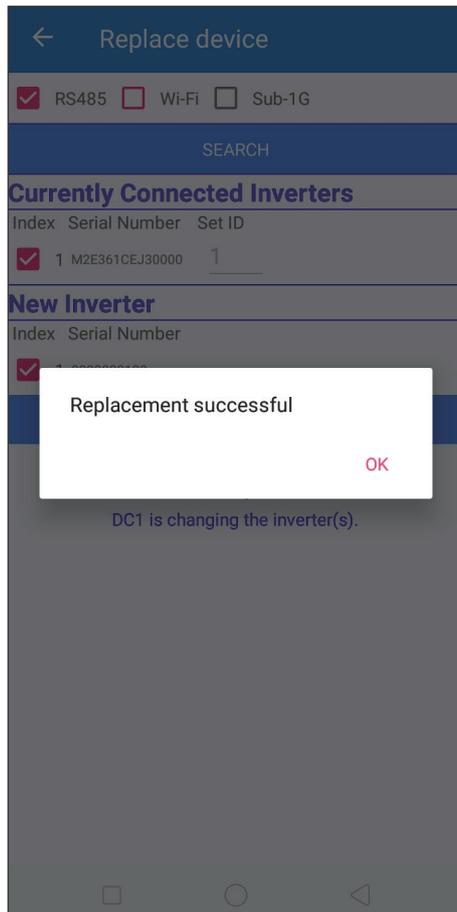


Before click "SEARCH", please confirm the old inverter has been totally replaced by a new inverter on site.

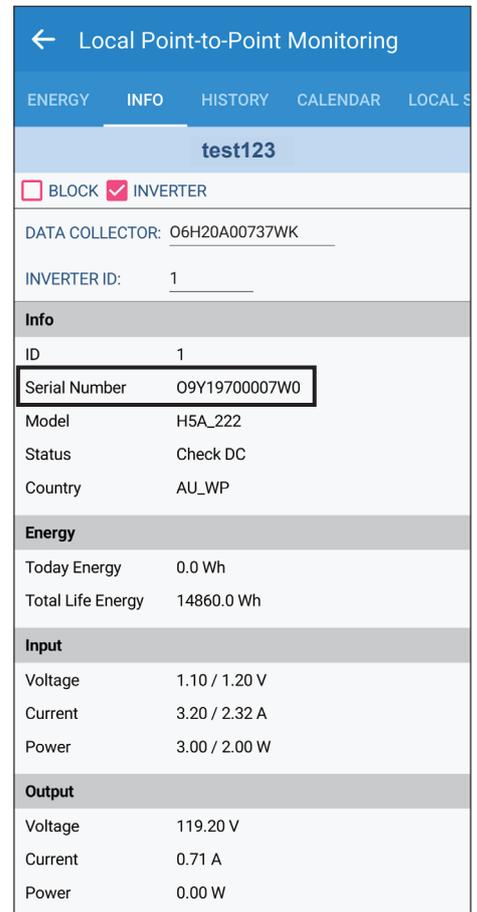
Select the two inverters that are going to swap, then click "START REPLACING INVERTER".



Replacement successful.



After replacement complete, users can go to the INFO page to check if the serial number has been successfully replaced.



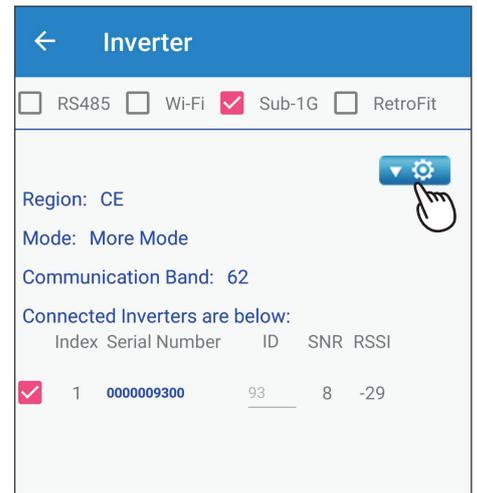
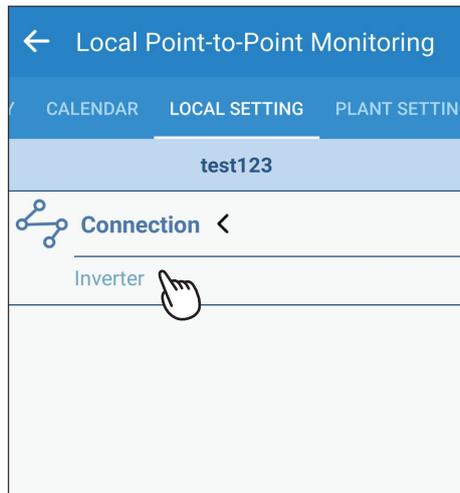
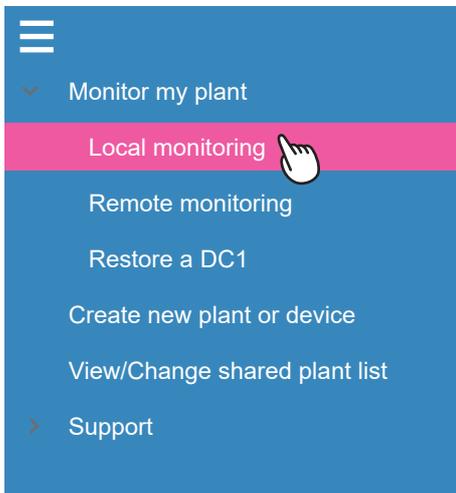
6.3. Add inverter

*This function is only for SUB_1G communication.

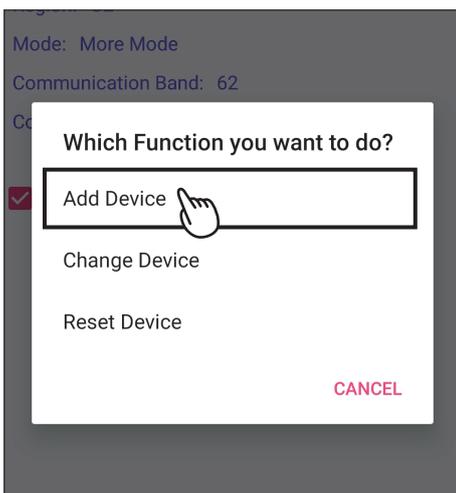
This process is to add an inverter to DC1 with SUB_1G communication.

LOCAL SETTING -> Connection -> Inverter

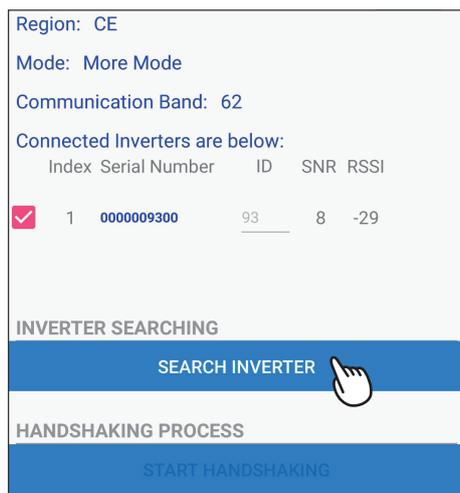
Click the Icon



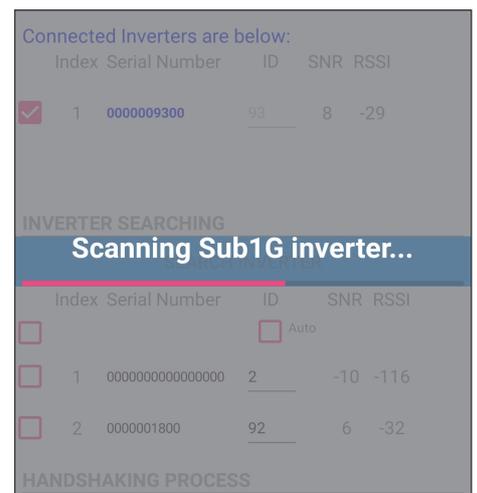
Click "Add Device".



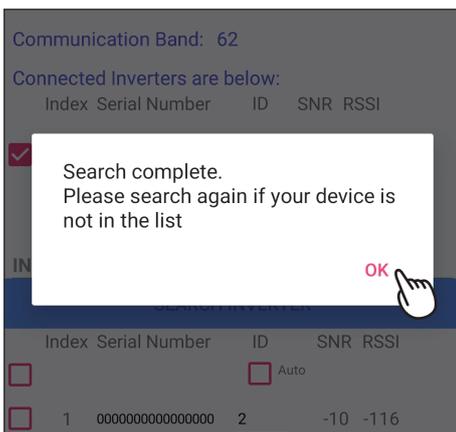
Click "SEARCH INVERTER".



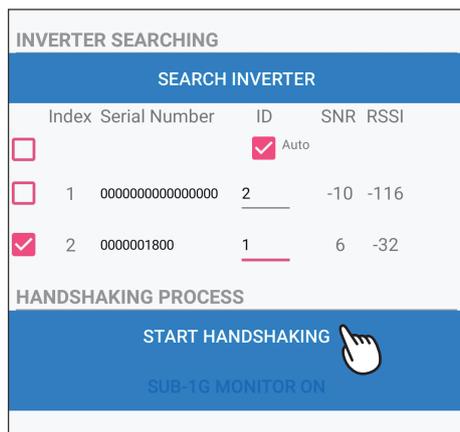
Scanning SUB-1G inverter...



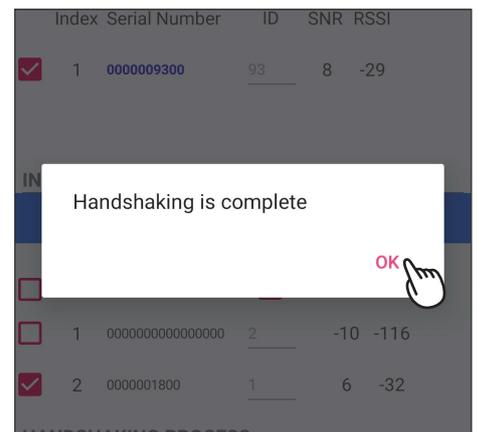
Click "OK".



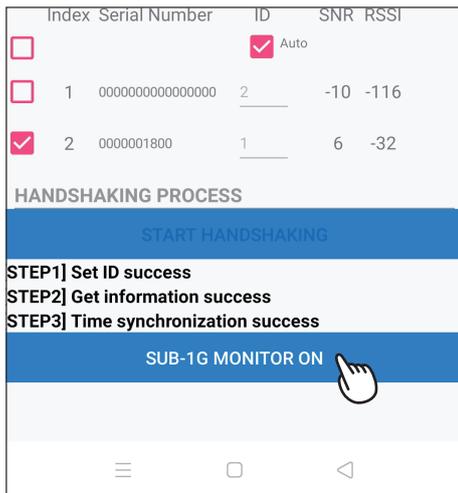
Select the serial number of the inverter that is going to be added to DC1.



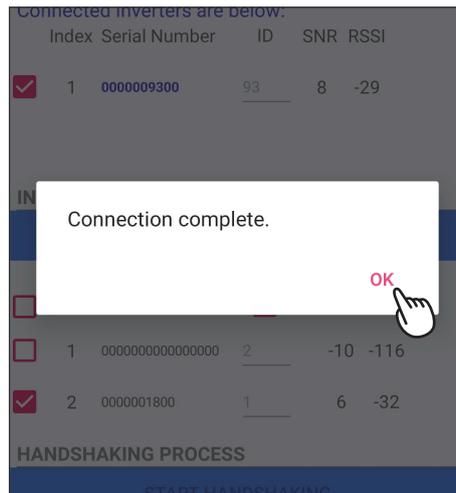
Click "OK".



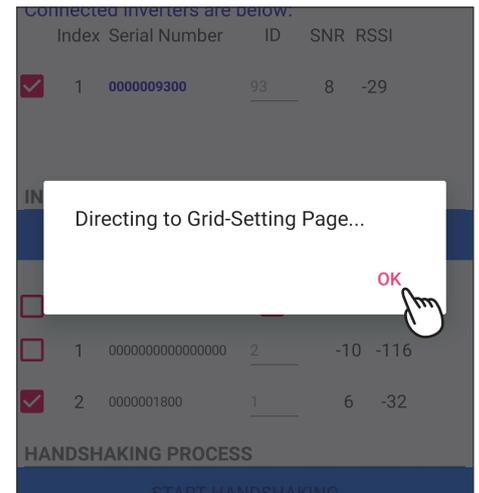
Click "SUB-1G MONITOR ON".



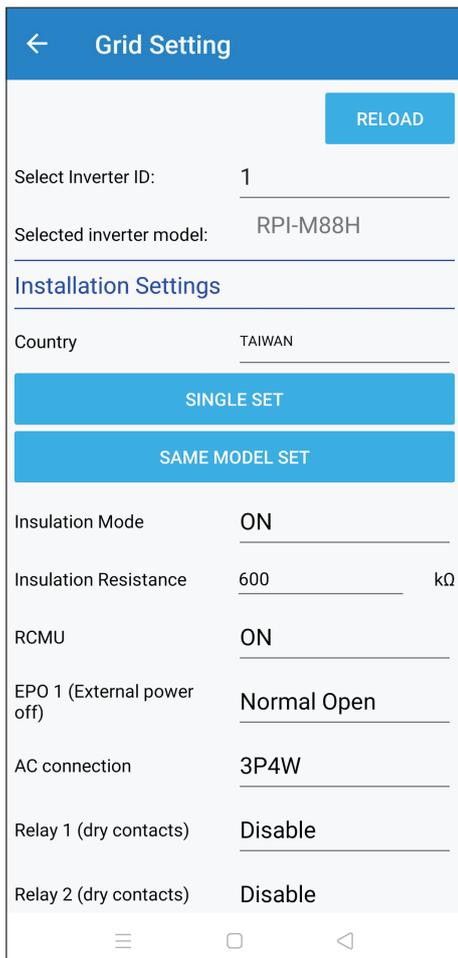
Click "OK".



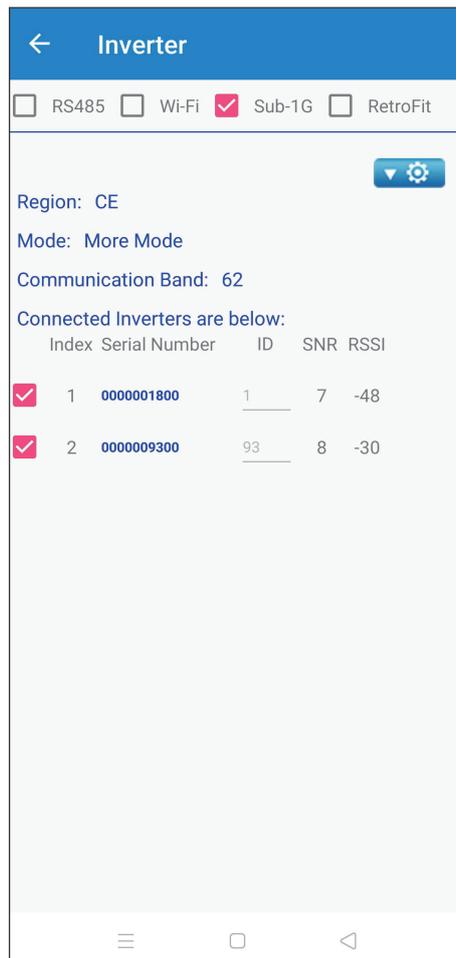
APP will direct to grid setting page.



Confirm and modify the setting value.



Adding inverter process complete.



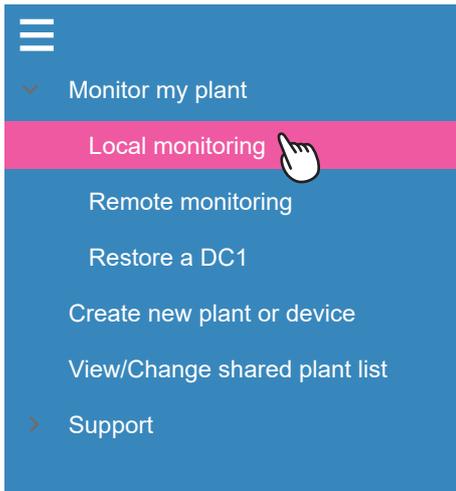
6.4. Back up DC1

ATTENTION

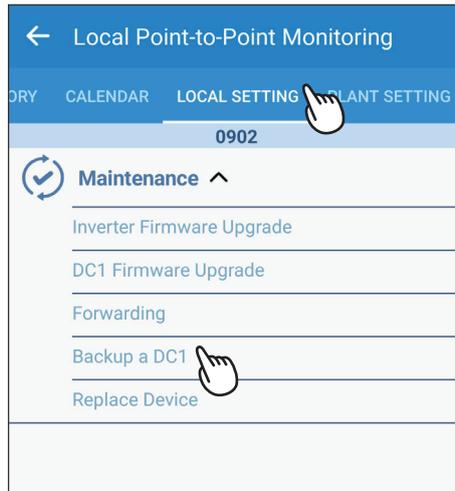


- A USB stick is needed for backup function.
- User can refer to Chapter 4.2.3 for restoring DC1.

Click Menu-->Local monitoring, then select the plant with the DC1 to be backup.



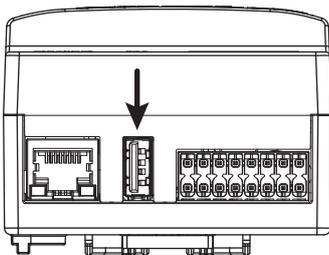
LOCAL SETTING -> Maintenance -> Backup a DC1



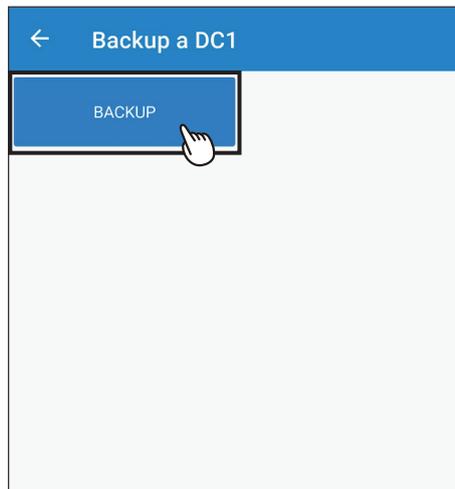
Please contact Delta local service for the password.



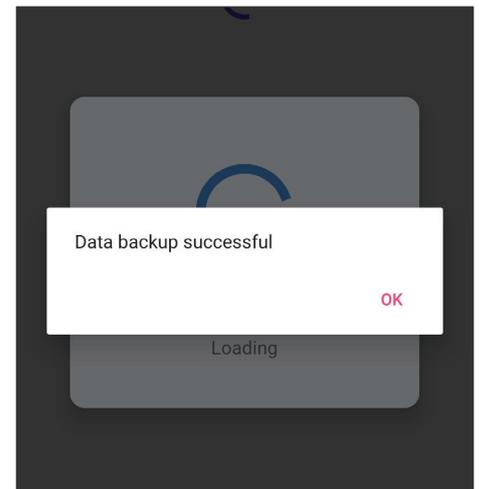
Connect the USB with DC1.



Click "BACKUP"



Backup success.



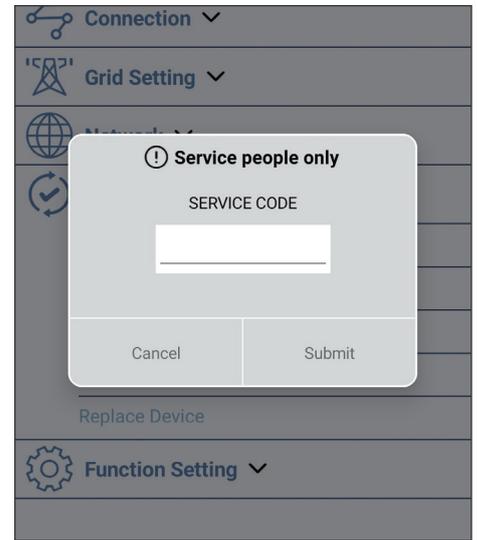
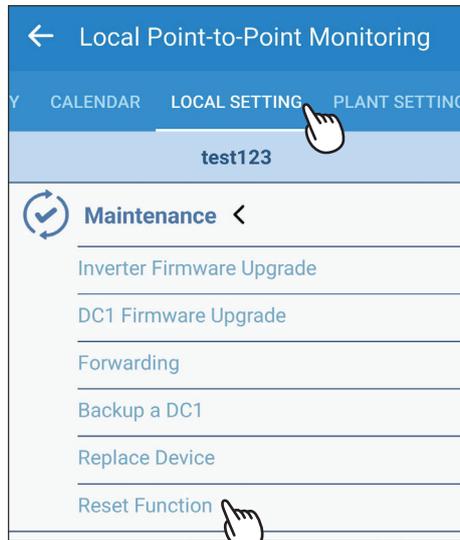
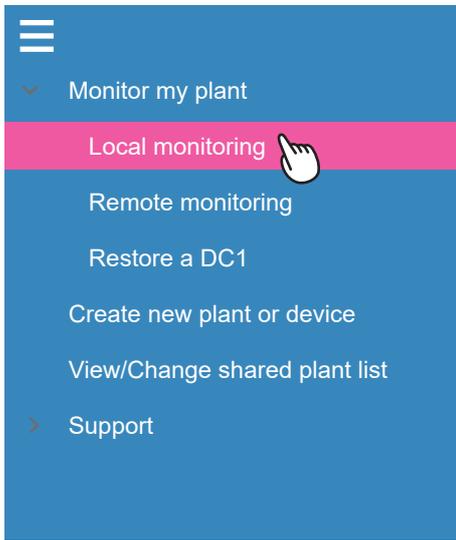
6.5. Reset DC1

* This function is only for Sub1G communication.
 * Please contact local service for the password.

Click Menu-->Local monitoring, then select the plant with the DC1 to be reset.

LOCAL SETTING -> Maintenance -> Reset Function

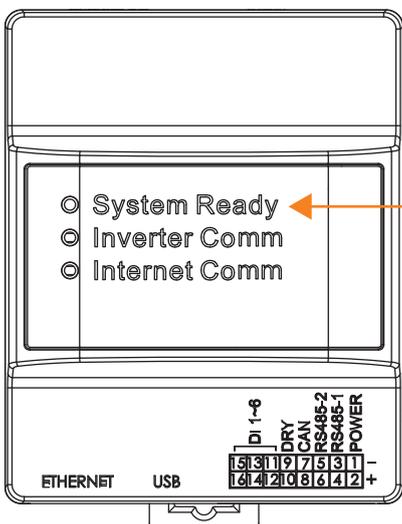
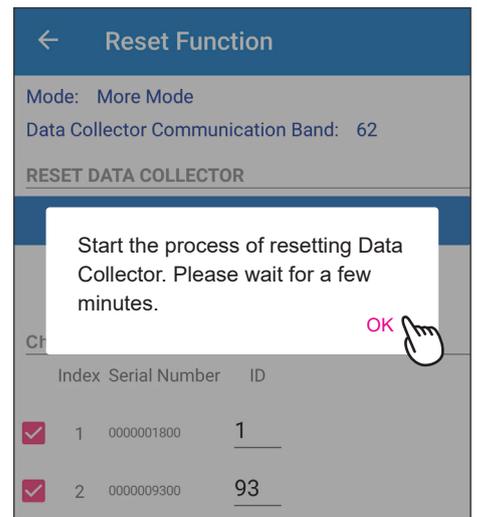
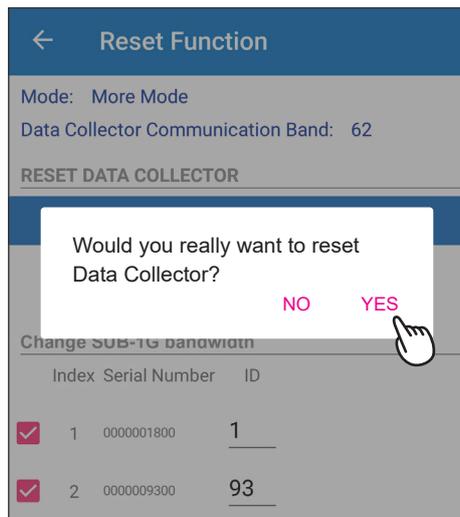
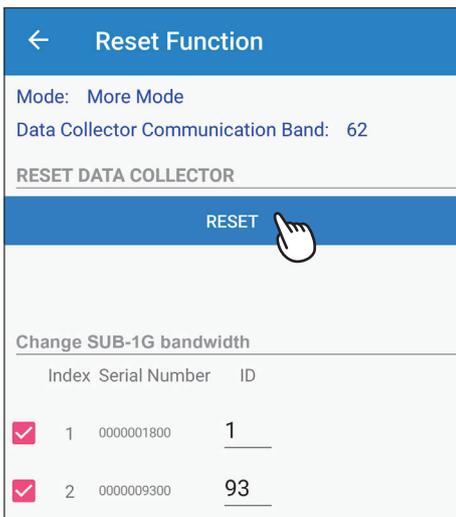
Please contact Delta local service for the password.



Click "RESET".

Click "YES".

Click "OK".



When resetting is done, the LED "System Ready" will turn red and after a while be back to green.

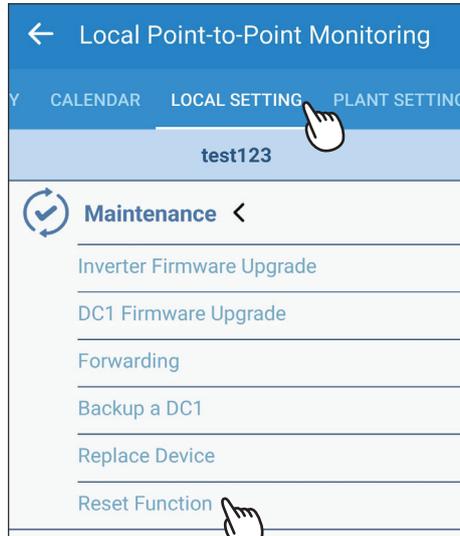
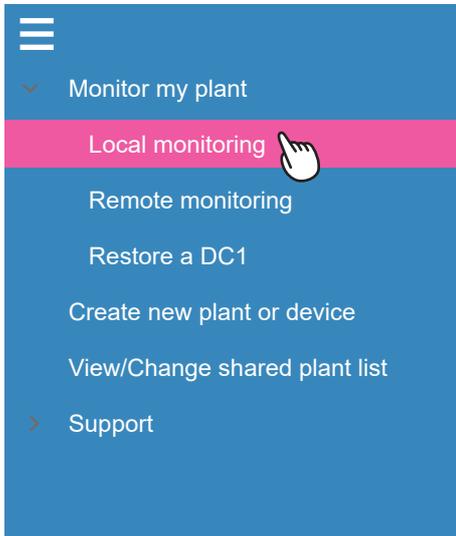
6.6. Change SUB-1G bandwidth

* This function is only for Sub1G communication.
 * Please contact local service for the password.

Click Menu-->Local monitoring, then select the plant whose SUB-1G bandwidth needs to be changed.

LOCAL SETTING -> Maintenance
 -> Reset Function

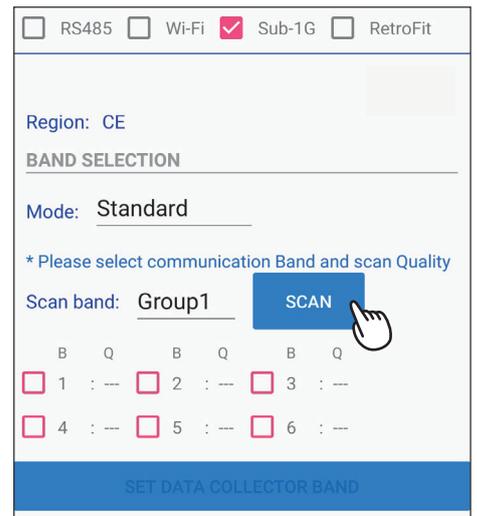
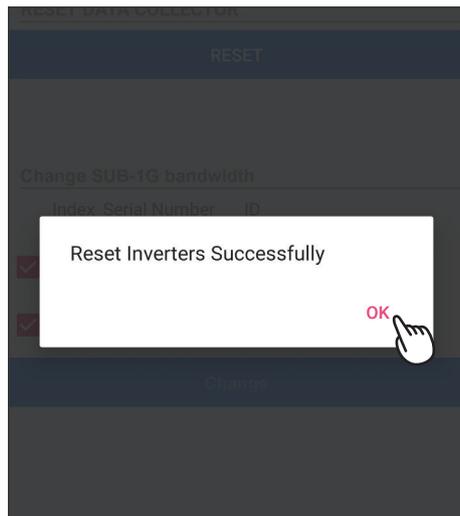
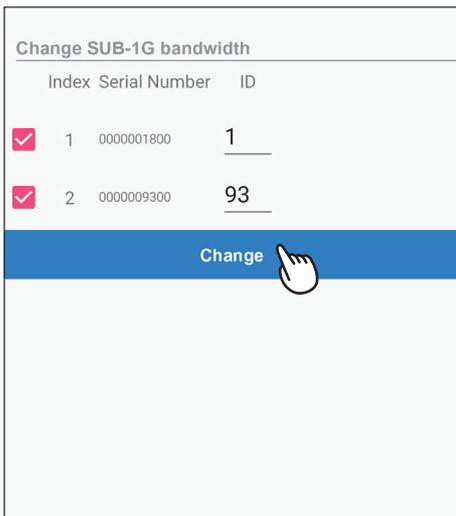
Please contact Delta local service for the password.



Click "Change"

Click "OK".

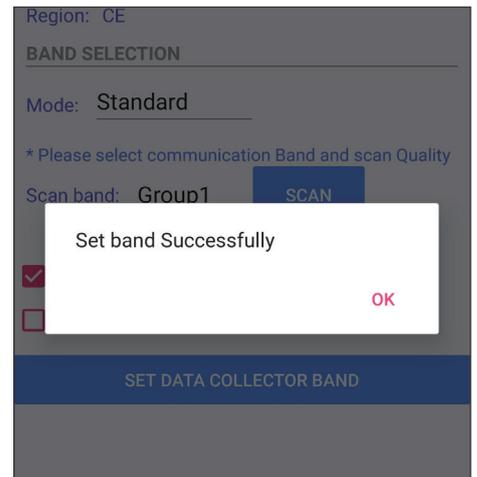
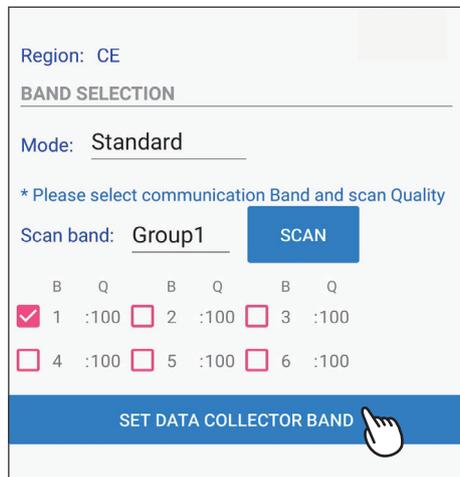
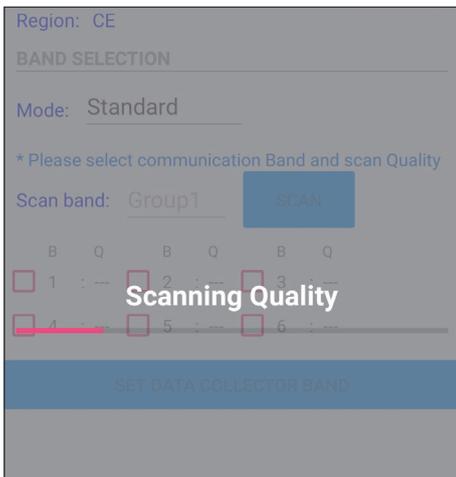
Select mode and "Scan band".



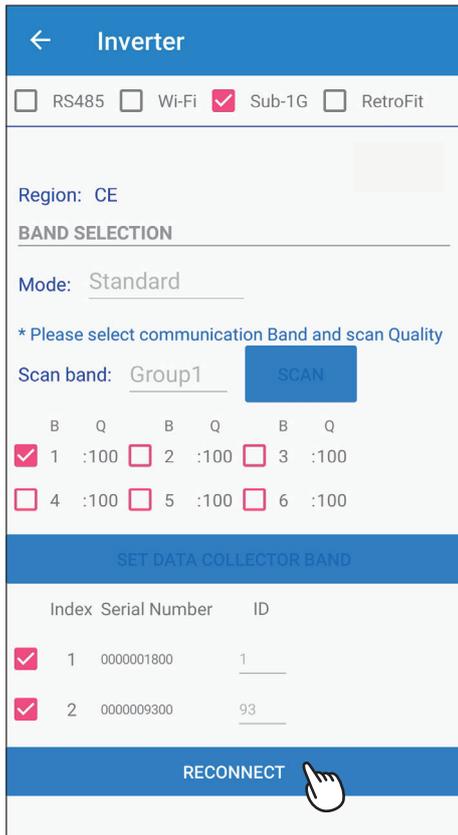
Scanning Quality

Select the proper bandwidth with good communication quality (100 is the best), then click "SET DATA COLLECTOR BAND"

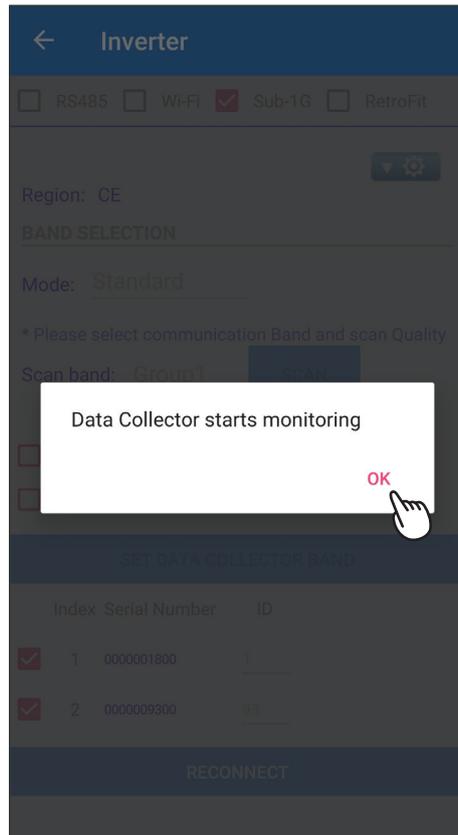
Set band Successfully.



Click "RECONNECT".



Click "OK".



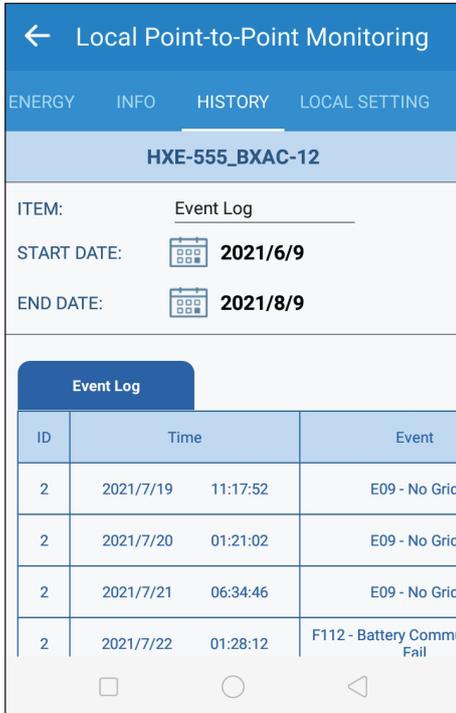
Change finished.



7. Error Message and Troubleshooting

7.1. Error Event History

The error code list is in History tab, if there are some question of the error message, please contact local service team.



Please refer to the user manual of the Inverter for details error information.

7.2. Communication Troubleshooting

When Wifi inverter or DC1 need troubleshooting, please refer to the step in this section and feedback to local service team.

[Flex Inverter with MyDeltaSolar Cloud]

| Step | Item |
|------|---|
| 1 | Check and record the status of LED indicator. => Record the status of all the three LED indicators. (color and status of blinking) |
| 2 | Connect the the inverter and take a screenshot of the network status. => Network page and click the status button, then take a screenshot. |
| 3 | Check the network accessibility of the WiFi router. => Connect your smartphone to the same WiFi router applied by the inverter. => Use the web browser to surf "MyDeltaSolar webpage". |
| 4 | Reboot the WiFi router and check if the inverter reconnect to the router. => Record the status of the inverter WiFi LED indicator on the inverter after 5mins the WiFi router reboot. => Check the SSID of the Inverter from the WiFi setting page of the mobile phone. => There will be an extra number at the end of the SSID if the inverter connected to the router. (ex: OXYxxxxxxx -1) |
| 5 | Reboot the inverter and check if the inverter reconnect to the router. => Turn off both the DC and AC, make sure all the LED indicators has been turned off then only turn on the DC and AC. => Check the SSID of the Inverter from the WiFi setting page of the mobile phone. => There will be an extra number at the end of the SSID if the inverter connected to the router. (ex: OXYxxxxxxx -1) |
| 6 | Check the Comm FW version on the Inverter. => If the Comm FW is not the latest version, please upgrade the FW. |
| 7 | Check if the inverter reconnect to the router. |

[Flex Inverter with DC1]

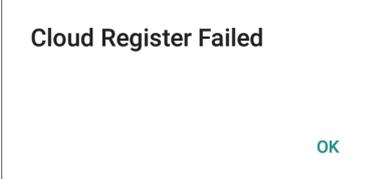
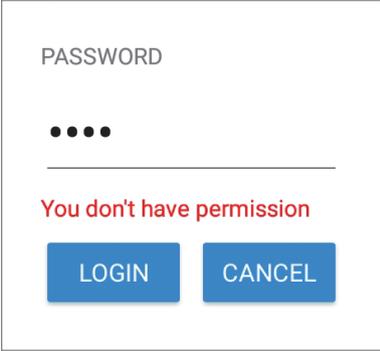
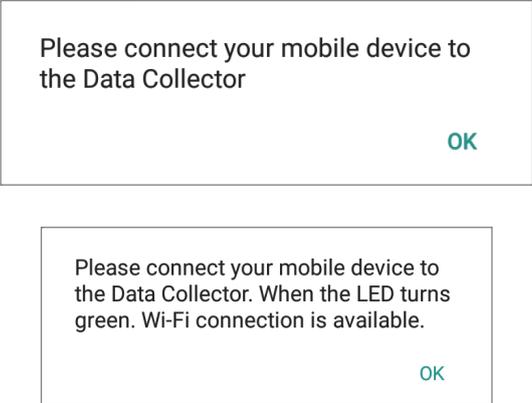
| Step | Item |
|------|---|
| 1 | Check and record the status of LED indicator. (both inverters and DC1) => Record the status of all the three LED indicators(color and status of blinking) |
| 2 | Connect your mobile phone to the DC1. => Check if the DC1 can be connected. |
| 3 | Create a WiFi hotspot with your mobile phone to simulate WiFi of DC1. => Power off the DC1. => Set the SSID and password of the hotspot to be exactly the same with DC1. => Wait around 3 mins and check if the Inverter connected to the WiFi hotspot of your mobile phone. |
| 4 | Reboot the inverter. (power off and on) => Wait around 3 mins and check if the Inverter connected to the WiFi hotspot of your mobile phone. |
| 5 | Turn off the hotspot of mobile phone and power on the DC1. => Wait around 3 mins and check if the Inverter connected to the DC1. |
| 6 | Check the FW of the inverter, please update the FW to the latest version. |
| 7 | Check if the inverter reconnected to the DC1 via the connection page on the Apps. |

[DC1 with MyDeltaSolar Cloud]

| Step | Item |
|------|---|
| 1 | Check and record the status of LED indicator of DC1. => Record the status of all the three LED indicators. (color and status of blinking) |
| 2 | Check the network accessibility of the WiFi router. => Connect your smartphone to the same WiFi router applied by the inverter. => Use the web browser to connect "MyDeltaSolar webpage". |
| 3 | Check the LED indicator of internet Comm on the DC1. => make sure mobile device is not connected to the DC1. => If the internet is off means the DC1 is not connected to the WiFi router. |
| 4 | Use the App connect to DC1 and scan the network. => check the WiFi strength of the related wifi router. |
| 5 | Reboot DC1. (power off and power on) => Wait around 10mins and check if there is data uploaded to the cloud. |
| 6 | Check the FW of the DC1, please update the FW to the latest version. |

7.3. App Error Dialog Display

The following explains the case where the following error dialog is displayed during operation.

| Error indication | Contents | Workaround |
|---|---|--|
|  | Register to cloud server fail | <ol style="list-style-type: none"> 1. Please confirm whether this DC1 has been registered on the cloud. 2. Please confirm if Inverter has been registered on the cloud. 3. Please confirm if DC1 has internet connection. 4. Please confirm that the user account password is correct. |
|  | Set wifi inverter time out | <ol style="list-style-type: none"> 1. Please confirm the communication quality between DC1 and inverter. 2. Please confirm if Inverter has started. 3. Please confirm if the smartphone is connected to DC1. |
|  | Insufficient permission warning message | Please enter the correct permission password. |
|  | User is not connected to DC1 | Please go to the smartphone WI-FI page and reconnect to DC1. |

| Error indication | Contents | Workaround |
|--|--|---|
| <div style="border: 1px solid black; padding: 10px;"> <p>Search Wi-Fi failed</p> <p style="text-align: right; color: green;">OK</p> </div> | DC1 scan Inverter fail | DC1 may have a short weak signal. Please retry the scan. |
| <div style="border: 1px solid black; padding: 10px;"> <p>Please make sure N1 is correctly adapted to Data Collector</p> <p style="text-align: right; color: green;">OK</p> </div> | N1 is not correctly assembled with Data Collector | Please confirm if N1 is assembled with Data Collector. If yes, re-assembled them again, please. |
| <div style="border: 1px solid black; padding: 10px;"> <p>Scan Quality failed</p> <p style="text-align: right; color: green;">OK</p> </div> | Scanning the quality of communication band is failed | Please confirm the LED light color of 'Status'. If the light color is red and flashing slowly, it means that the SUB_1G module initializing is not ready. Please wait a minute until the light color turns to green. |
| <div style="border: 1px solid black; padding: 10px;"> <p>Click on 'OK'. The APP will automatically direct you to the page for Data Collector connection.</p> <p style="text-align: right; color: red;">OK</p> </div> | DC1 has not been connected. | Please confirm the connection between DC1 and the mobile device, and make sure there is only one mobile device connected to the DC1. |

