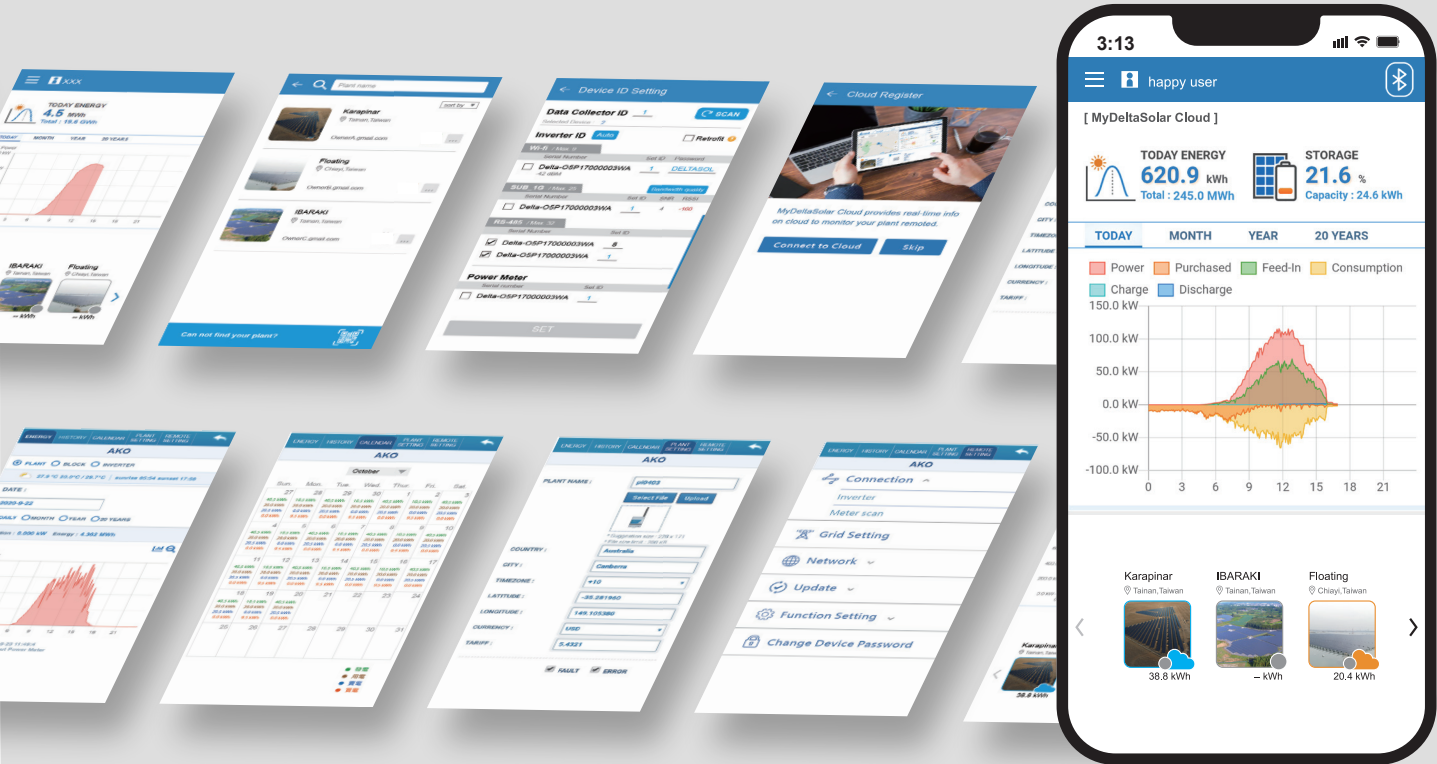


ios

DeltaSolar  
DELTA ELECTRONICS, INC.



# DeltaSolar Application

## Operation Manual for **ios** system

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# 1. DeltaSolar

## 1.1. Download

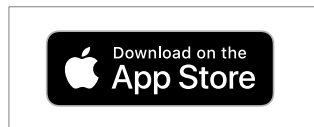


### DeltaSolar

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

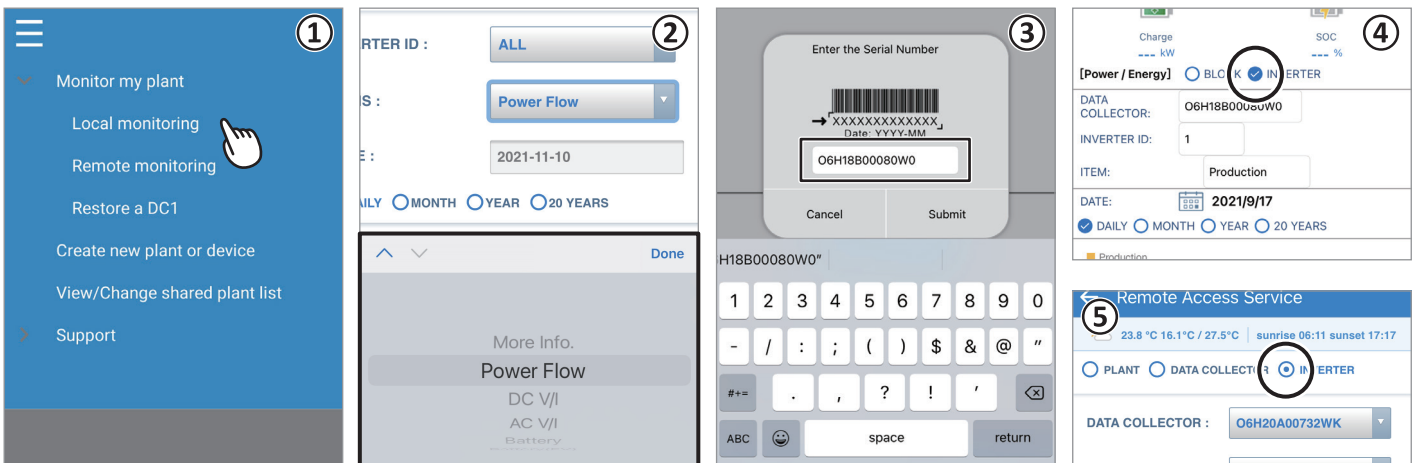
iOS: 8.0 and above  
Android OS: Android 8.0 and above

## 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.)

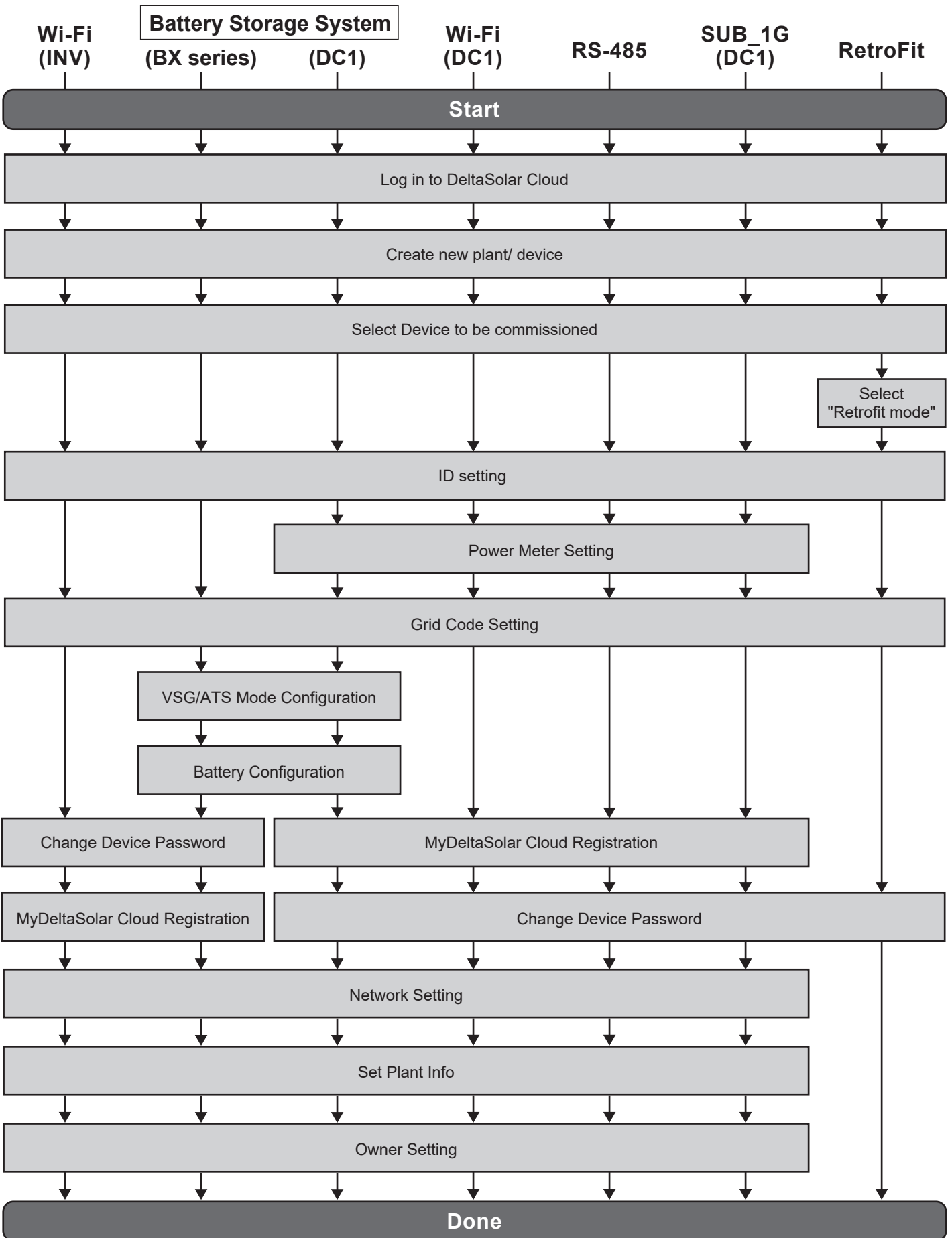
### ④ Check box

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.

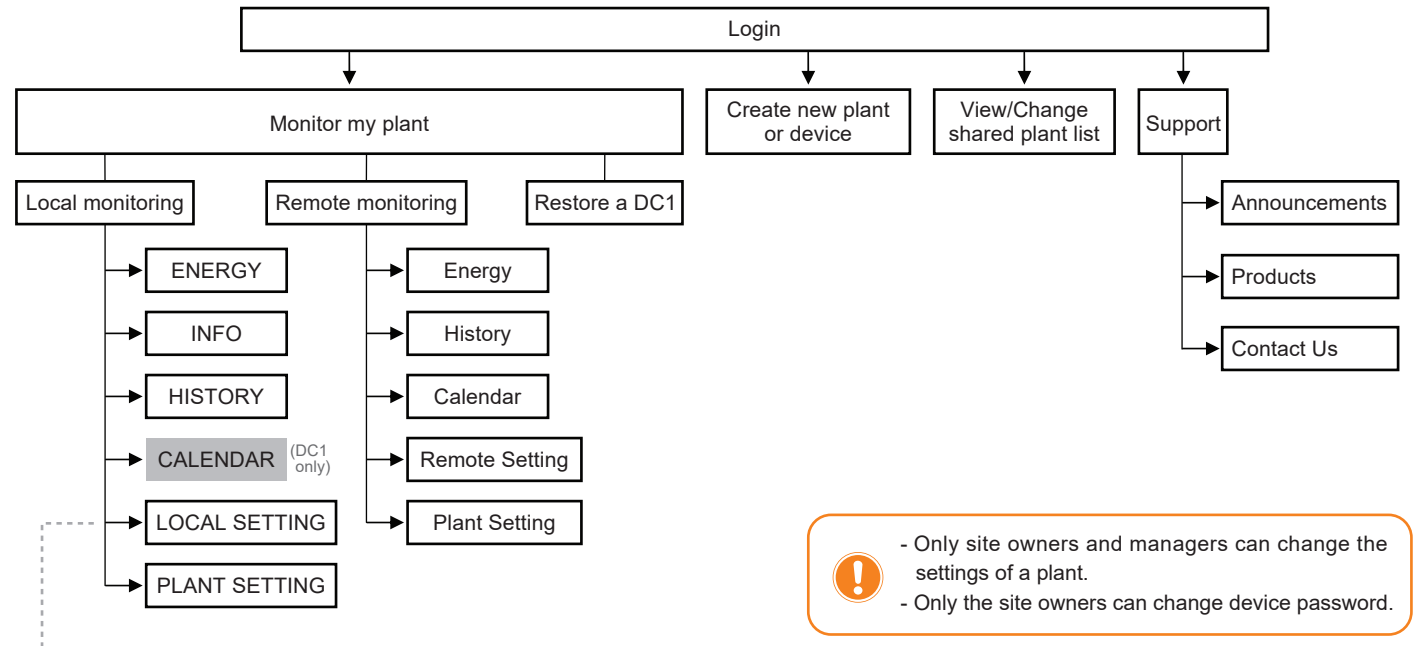
# 1.3. Workflow





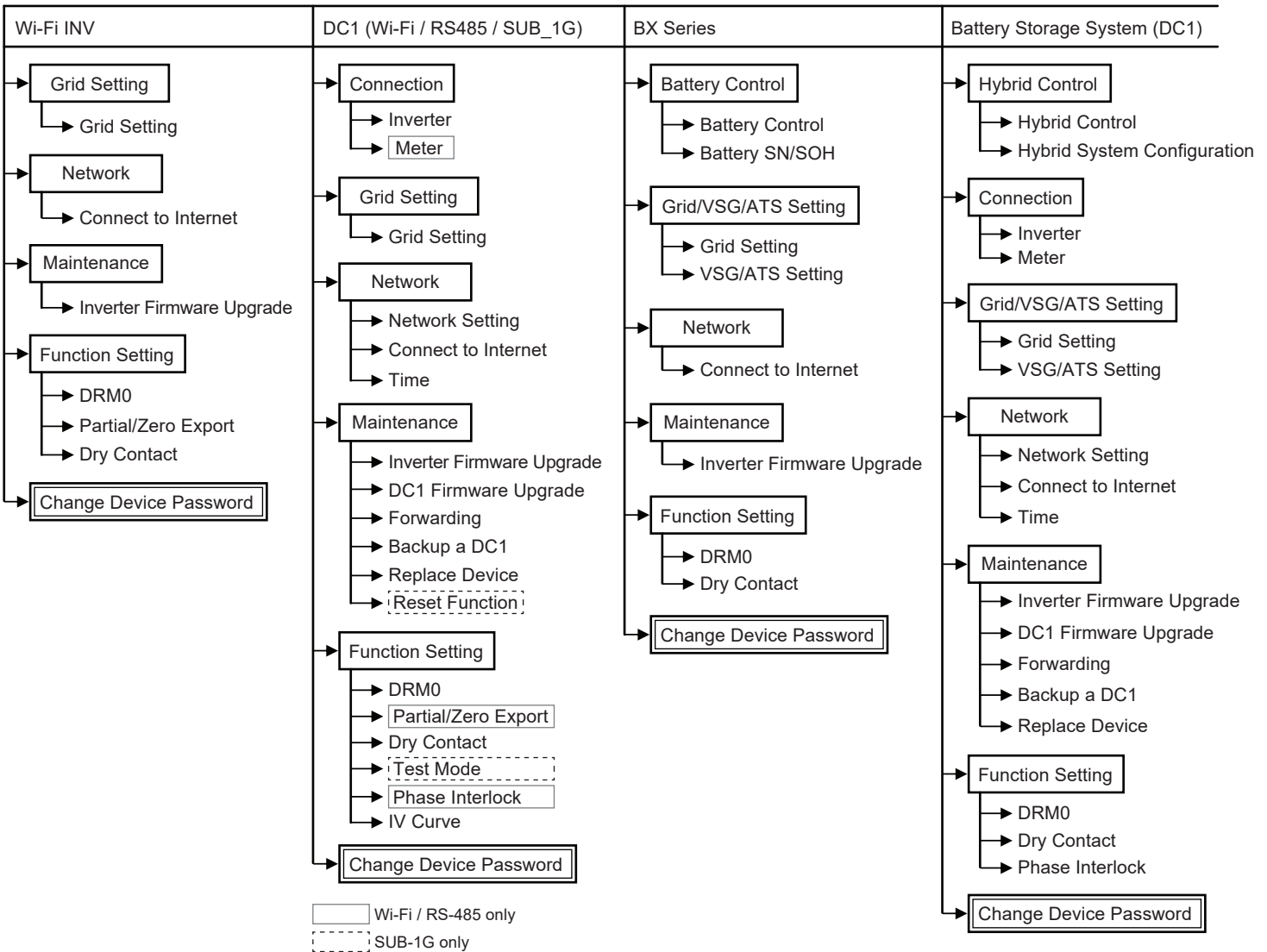
# 1.4. List of APP Pages

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



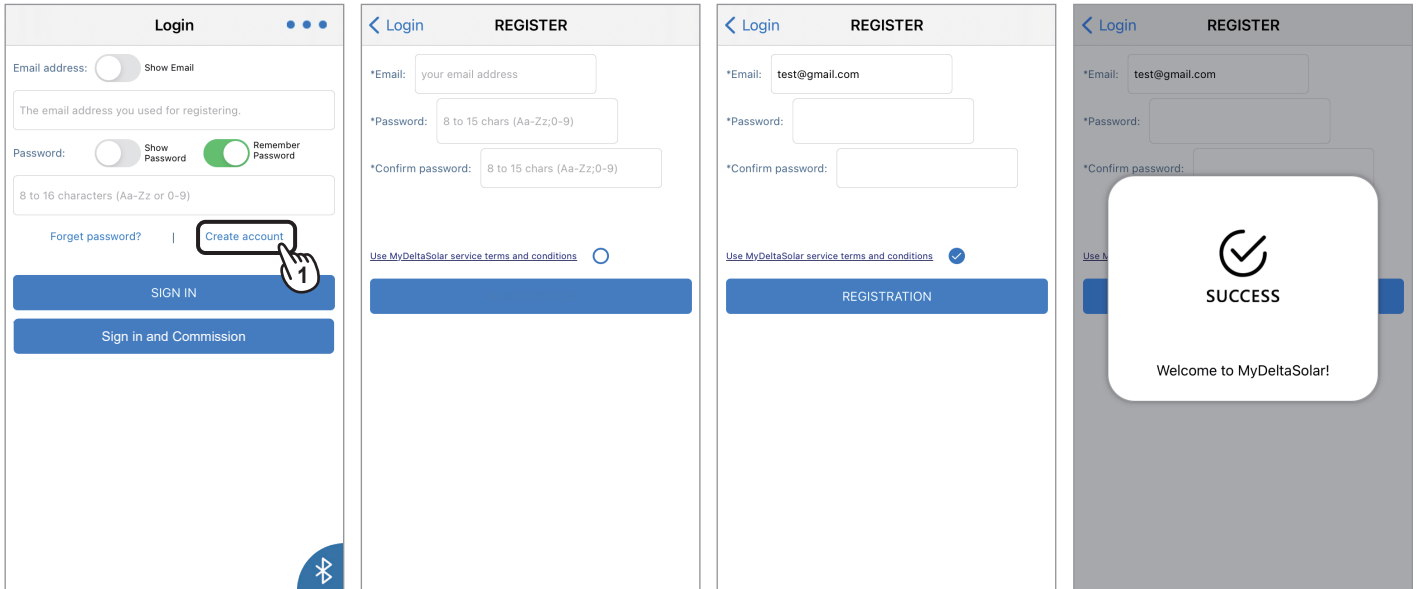
- Only site owners and managers can change the settings of a plant.  
 - Only the site owners can change device password.

## LOCAL SETTING

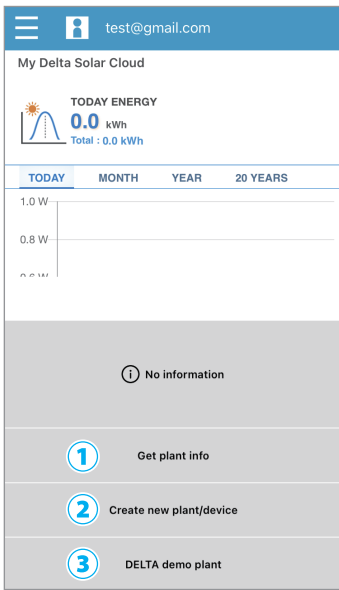


# 1.5. Create an account

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.

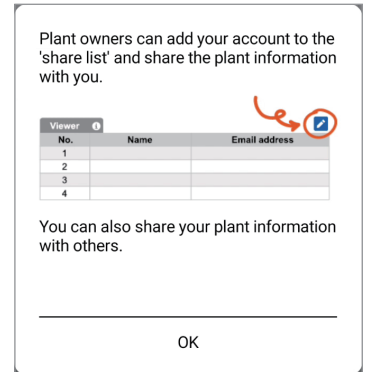
① Get plant info

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.

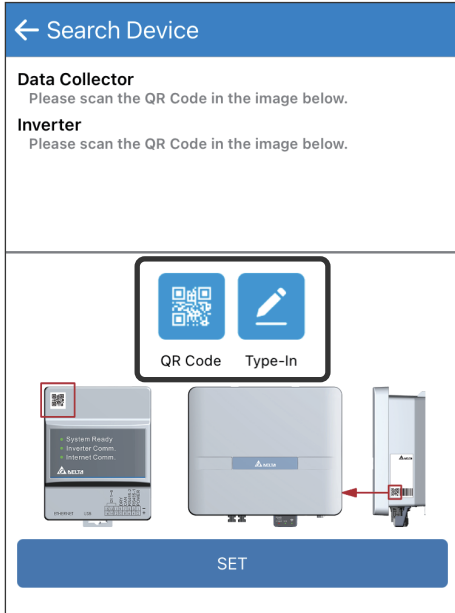
③ DELTA demo plant

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

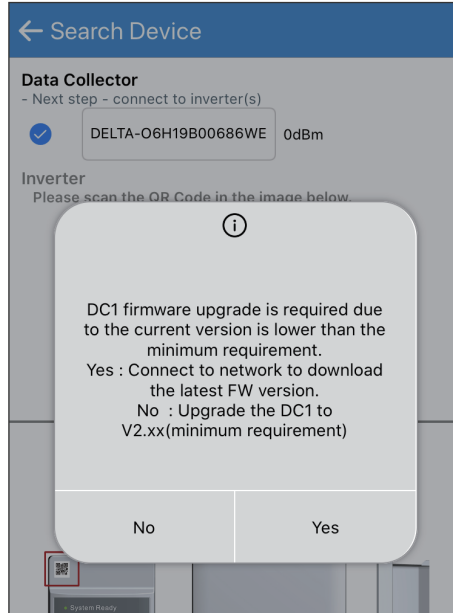
# 2. Commissioning

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

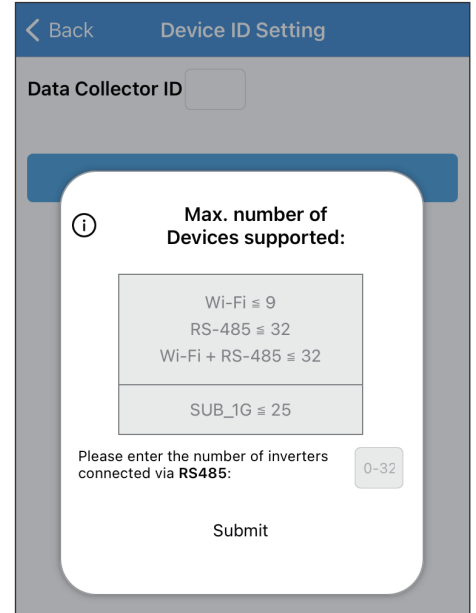
Please scan the QR code or enter the serial number of the device, and click "SET".



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.

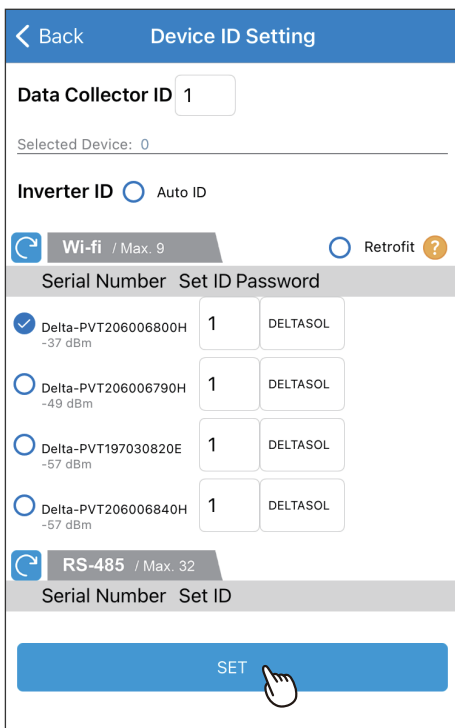


Please fill-in RS-485 device quantity.

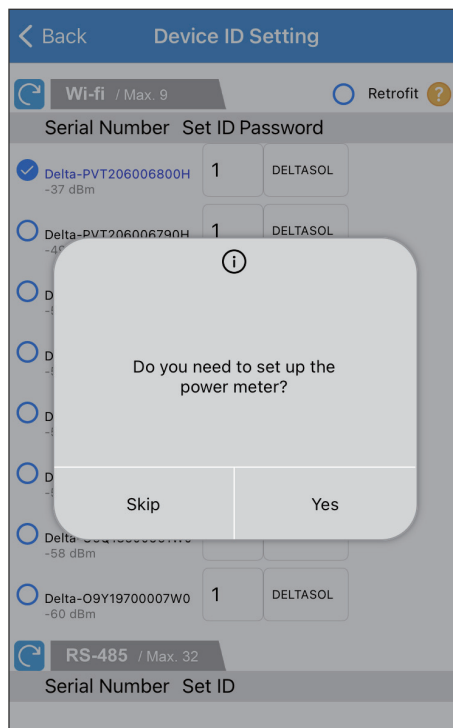


To establish a stable connection between inverter and MyDeltaSolar Cloud, please check the Wi-Fi connection setting page. The signal strength must be **greater than -70dBm** between the Wi-Fi devices (Wi-Fi router, Wi-Fi inverter, DC1...etc.). **If the signal strength is less than -70dbm, certain communication 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.

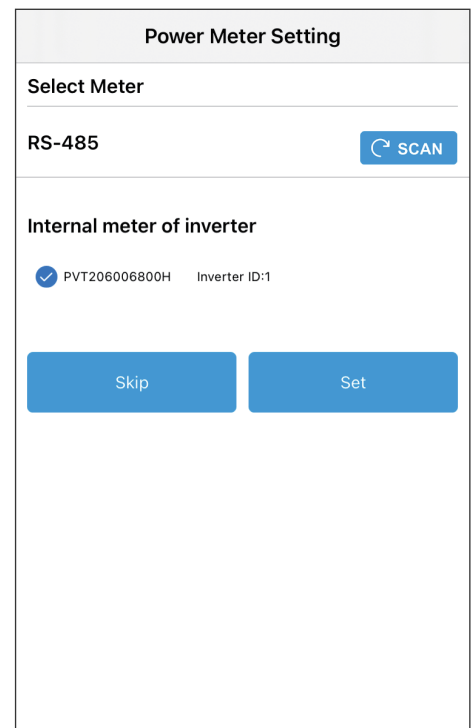
Select the target inverters, click "Auto ID" to assign the ID automatically, and click "SET".



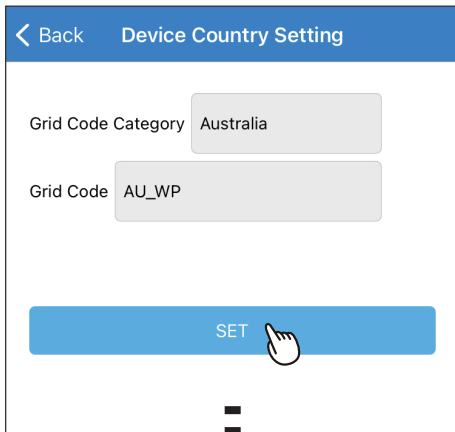
If a Delta power meter needs to be set up, please click "Yes", otherwise please click "Skip" to continue.



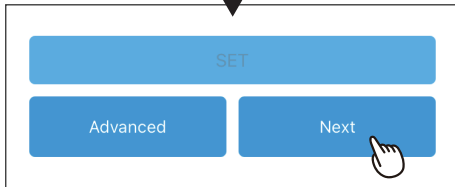
Select the meter device for monitoring.



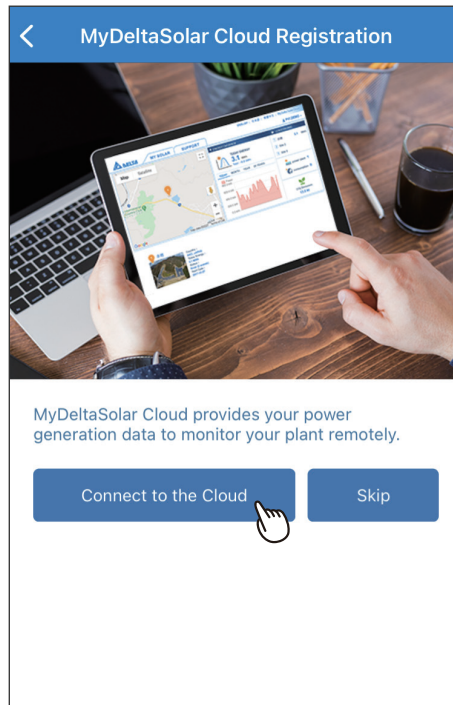
Select a grid code and click "SET".



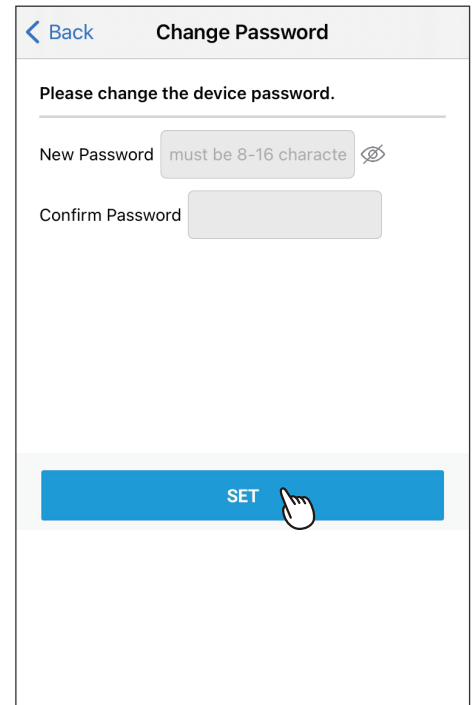
Click "NEXT"



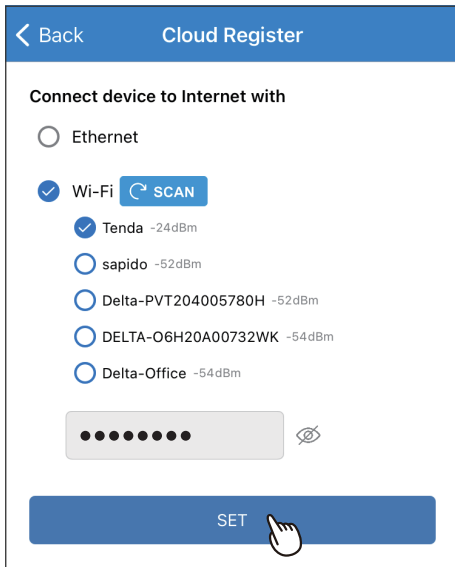
Click "Connect to the Cloud" to use MyDeltaSolar Cloud monitoring service or click "Skip" to go to "Plant setting".



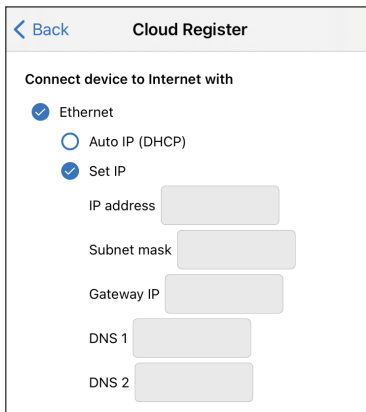
Set a new password to the device and click "SET".



Select the network interface and click "SET".



### Select "Ethernet"



#### Auto IP (DHCP)

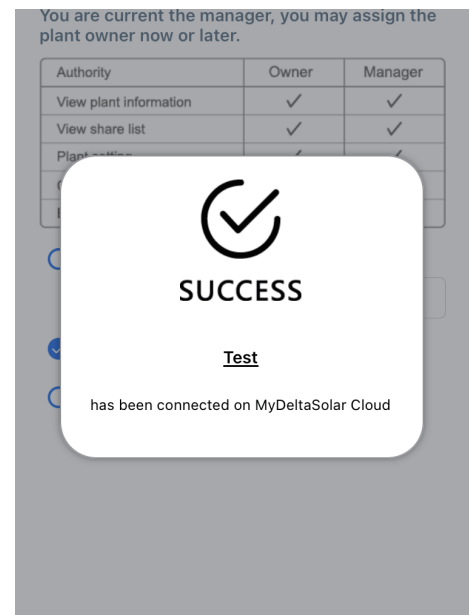
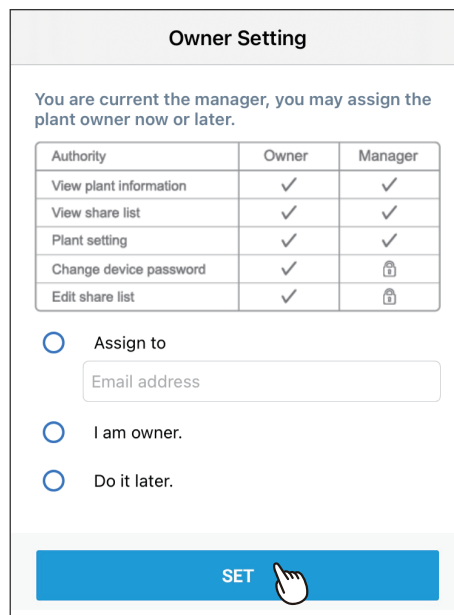
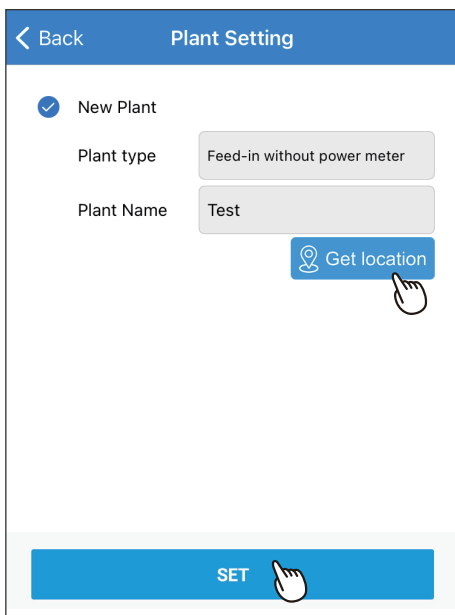
System will automatically assign an IP address.

#### 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.

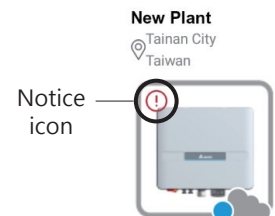
Select the plant type and assign a name to the plant. Click "Get Location" for the GPS position and click "SET".

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



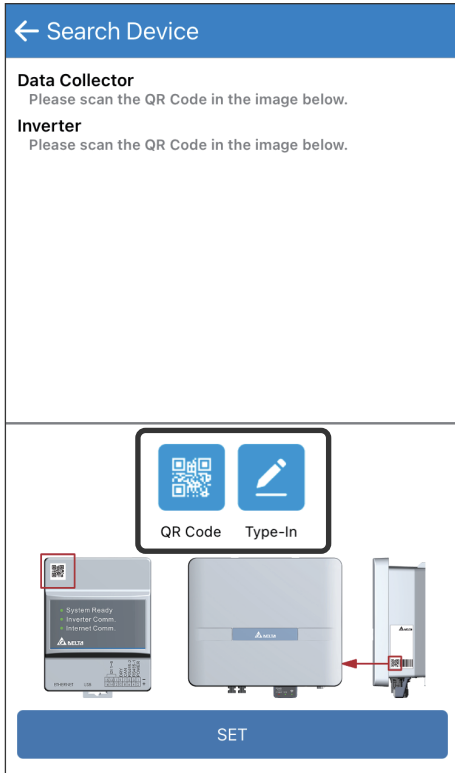
### ! About owner setting...

- 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.)

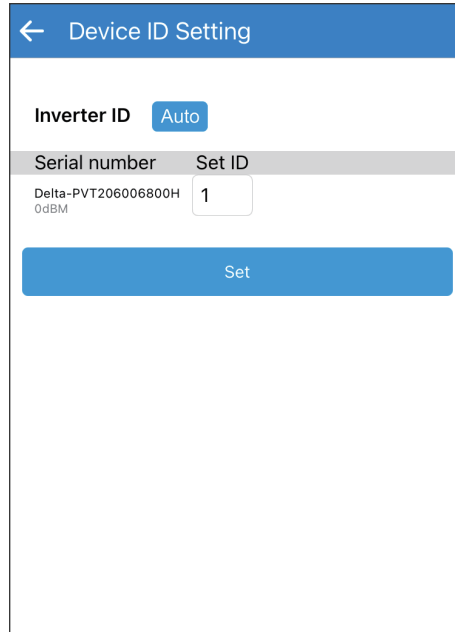


## 2.2. Wi-Fi Inverter

Please scan the QR code or enter the serial number of the device, and then click "SET".

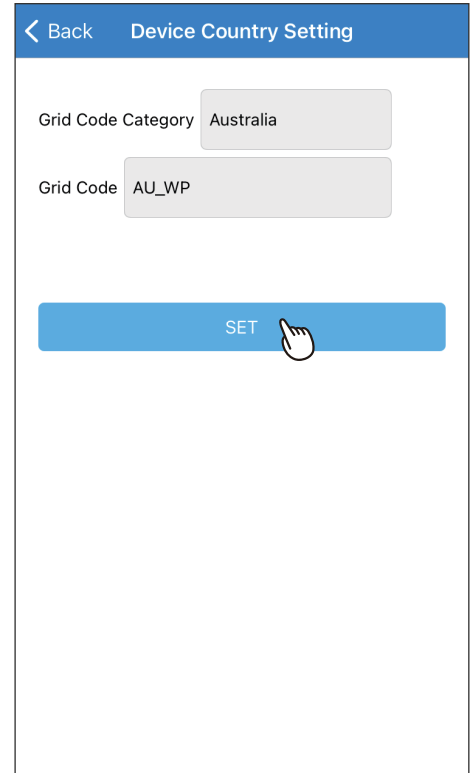


Click "Auto" or enter a number to assign the device ID, and click "Set"



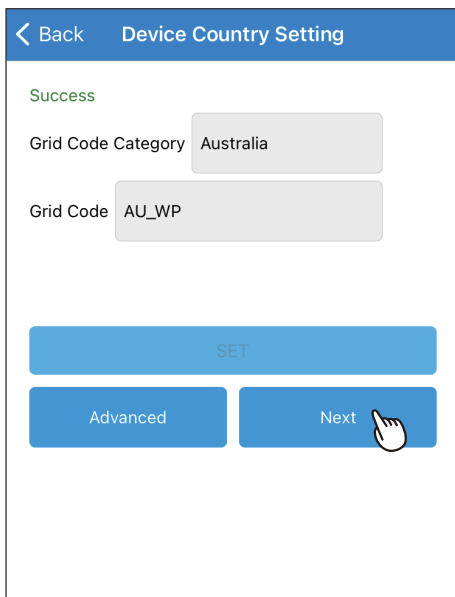
Click **Auto** button, the APP will set the device ID automatically.

Select a grid code and click "SET".

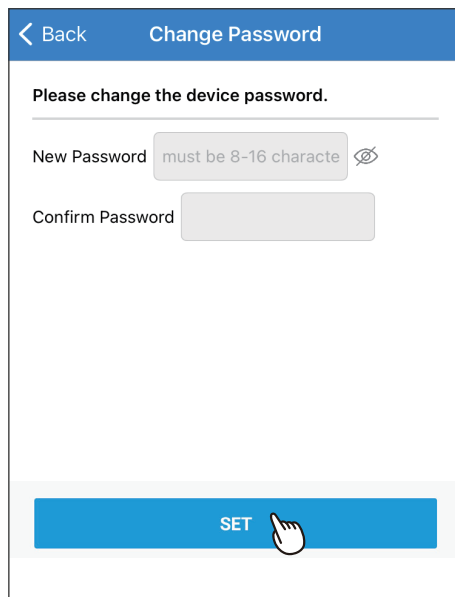


To establish a stable connection between inverter and MyDeltaSolar Cloud, please check the Wi-Fi connection setting page. The signal strength must be **greater than -70dBm** between the Wi-Fi devices (Wi-Fi router, Wi-Fi inverter, DC1...etc.). **If the signal strength is less than -70dbm, certain communication 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.

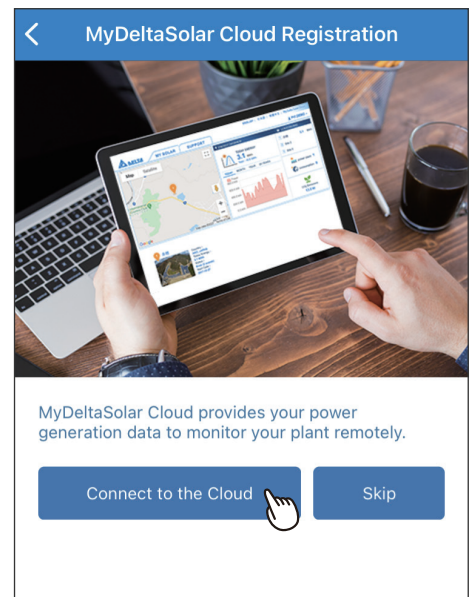
Click "Next".



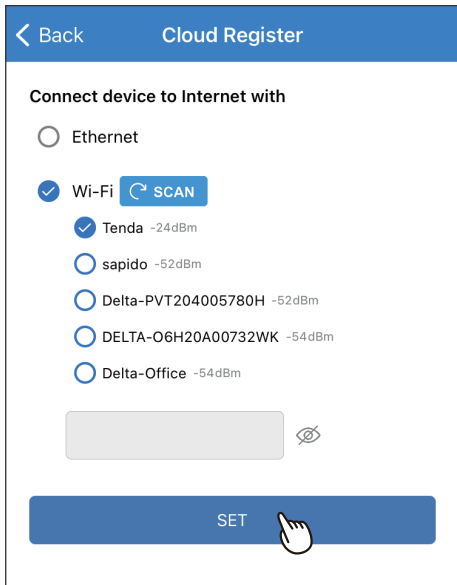
Set a new password to the device and click "SET".



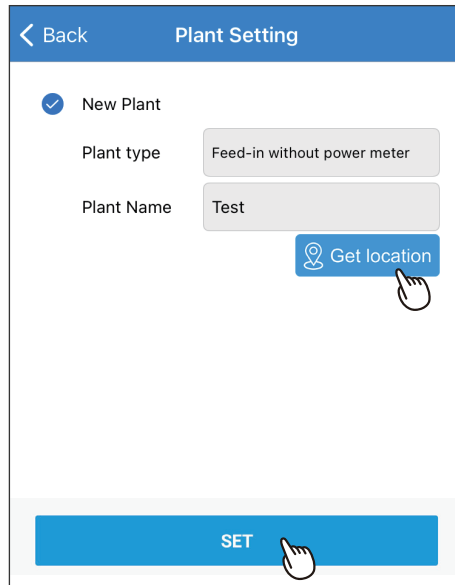
Click "Connect to the Cloud" to use MyDeltaSolar Cloud monitoring service or click "Skip" to go to "Plant setting".



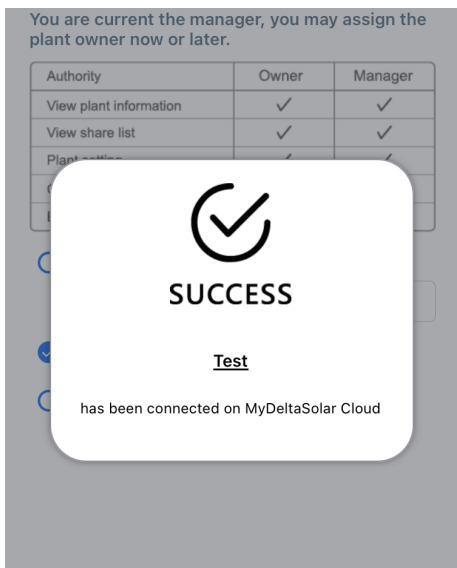
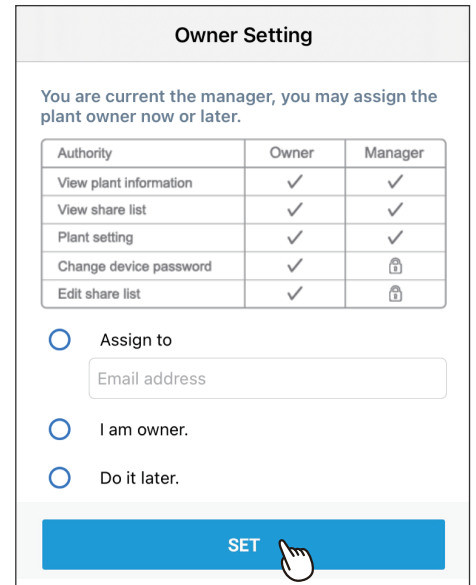
Select the network interface and click "SET".



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...

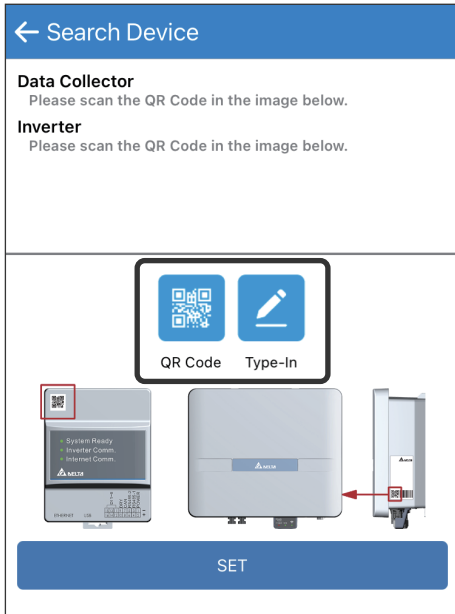
- During commissioning, the installer will be set as default, the manager of the plant. Or the installer can assign himself as the plant owner.
- If the assigned email address has not yet been registered to MyDeltaSolar Cloud, an invitation will be sent to this email address.
- When in an environment 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.)



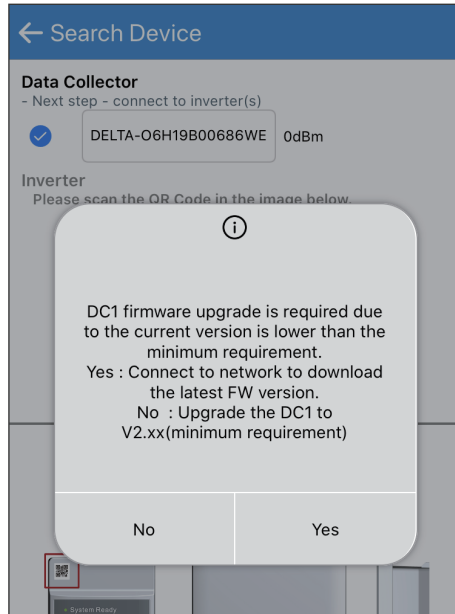


## 2.3. Battery Storage System (DC1)

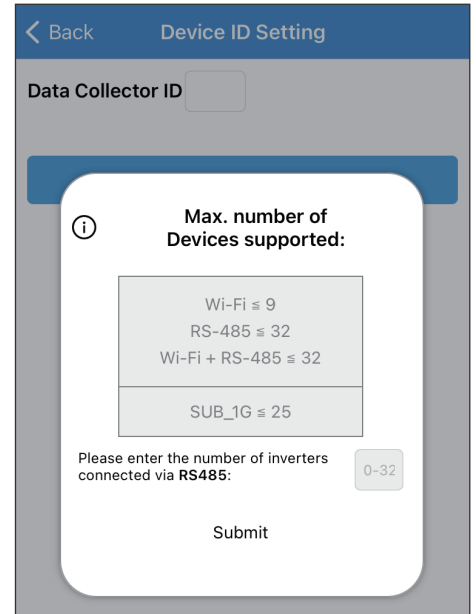
Please scan the QR code or enter the serial number of the device, and then click "SET".



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.

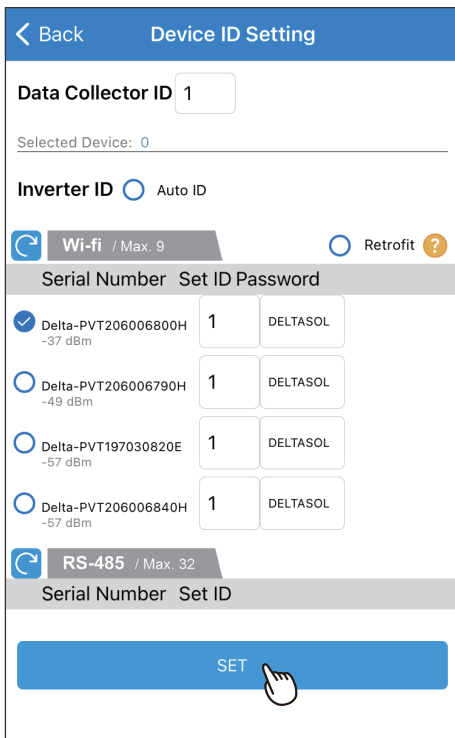


Please fill-in RS-485 device quantity.

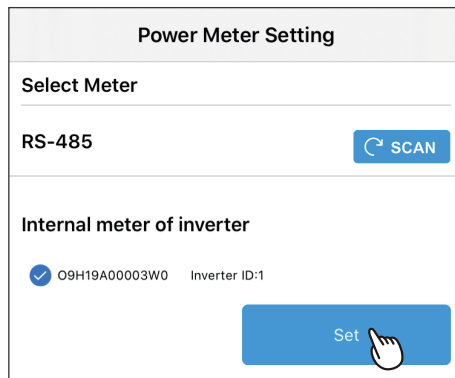


**!** To establish a stable connection between inverter and MyDeltaSolar Cloud, please check the Wi-Fi connection setting page. The signal strength must be **greater than -70dBm** between the Wi-Fi devices (Wi-Fi router, Wi-Fi inverter, DC1...etc.). **If the signal strength is less than -70dbm, certain 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.

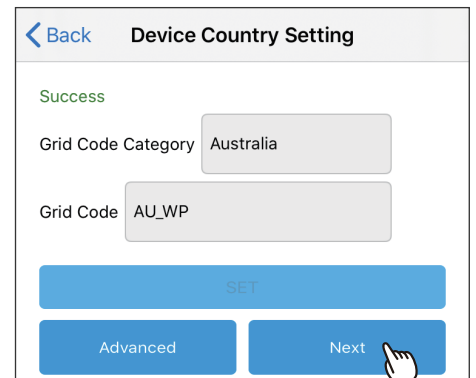
Select the target inverters, click "Auto ID" to assign the ID automatically, and click "SET".



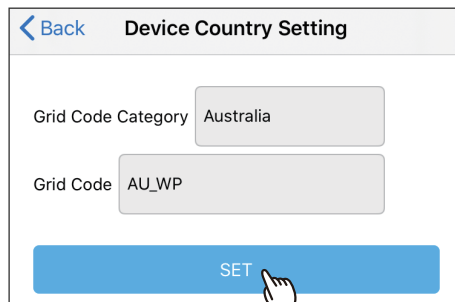
Select the meter device for monitoring.



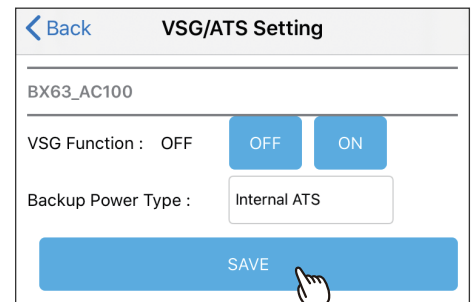
Click "NEXT".



Select a grid code and click "SET".



Select VSG Function and Backup Power Type.



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"**

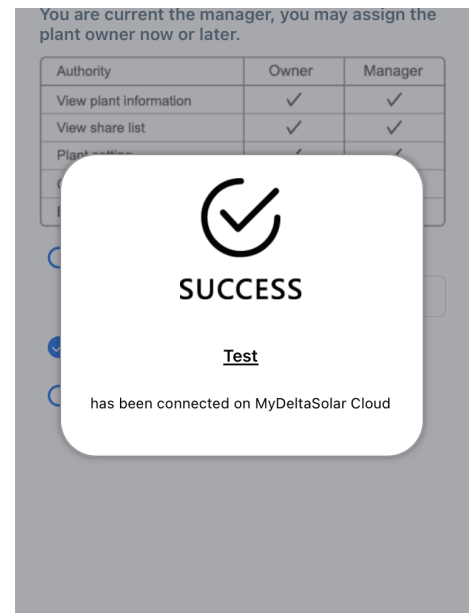
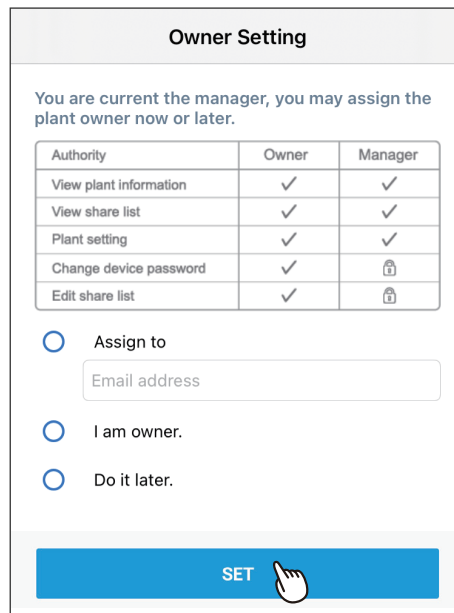
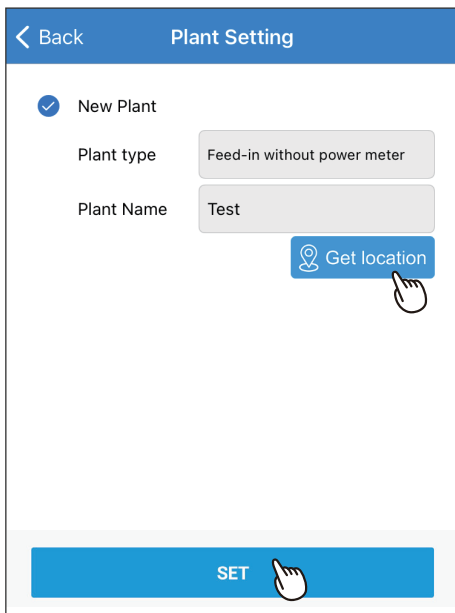
**Auto IP (DHCP)**  
System will automatically assign an IP address.

**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.

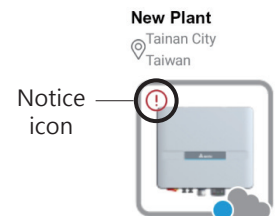
Select the plant type and assign a name to the plant. Click "Get Location" for the GPS position and click "SET".

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)

Please scan the QR code or enter the serial number of the device, and then click "SET".

Click "Auto" or enter a number to assign the device ID, and click "Set"

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

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.

\* Once a year the BX6.3 must do a FULL un-interrupted discharge and re-charge cycle. This will be completed and undertaken at a scheduled day and time as above. Should the temperature of the battery be below 20 degrees Celsius the battery will postpone the process for 3 months

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

\* Once a year the BX6.3 must do a FULL un-interrupted discharge and re-charge cycle. This will be completed and undertaken at a scheduled day and time as above. Should the temperature of the battery be below 20 degrees Celsius the battery will postpone the process for 3 months

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.

Authority	Owner	Manager
View plant information	✓	✓
View share list	✓	✓
Plant setting	✓	✓
Change device password	✓	🔒
Edit share list	✓	🔒

Authority	Owner	Manager
View plant information	✓	✓
View share list	✓	✓
Plant setting	✓	✓
Change device password	✓	🔒
Edit share list	✓	🔒

### ! About owner setting...

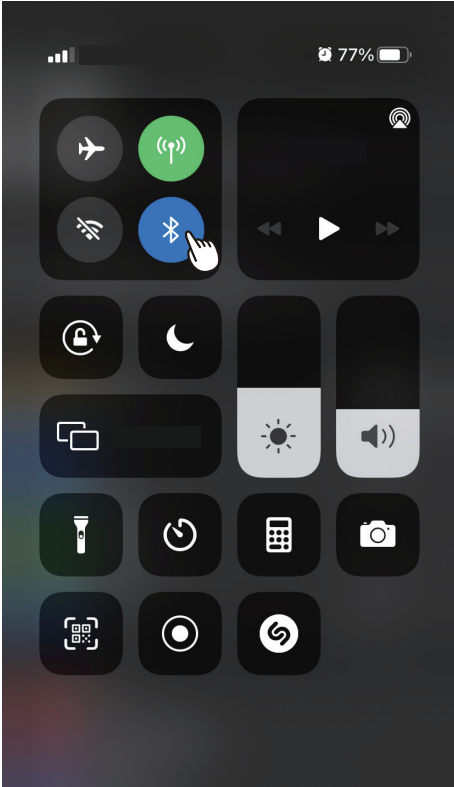
- During commissioning, the installer will be set as default, the manager of the plant. Or the installer can assign himself as the plant owner.
- If the assigned email address has not yet been registered to MyDeltaSolar Cloud, an invitation will be sent to this email address.
- When in an environment 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.)




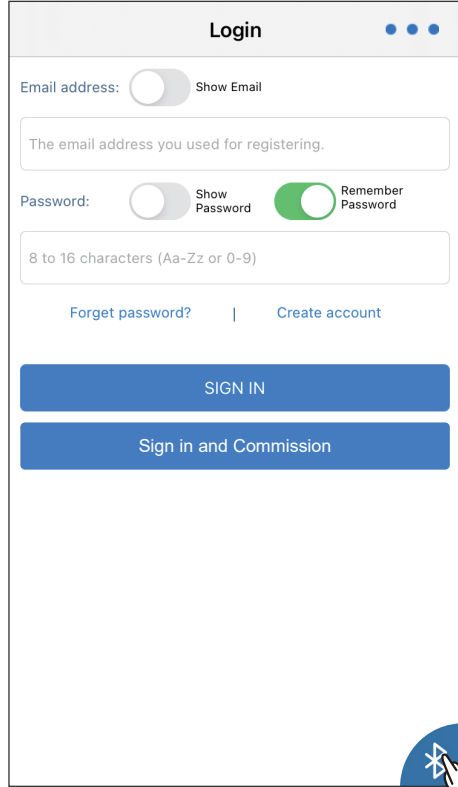
# 3. Bluetooth

## 3.1. Connection

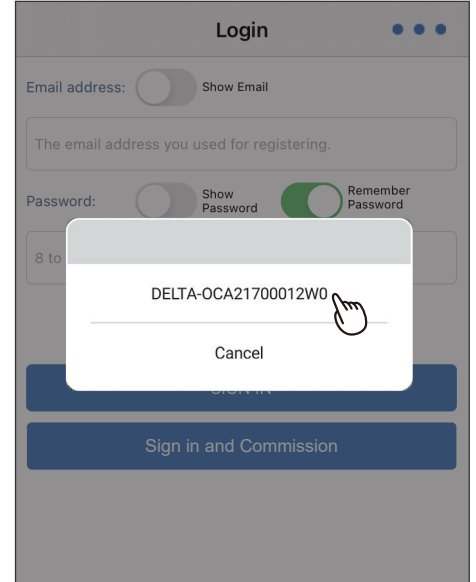
Enable the Bluetooth function of your mobile device.




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.

**[INFO]**

Bluetooth menu	
<b>Info</b>	
ID	1
Serial Number	O3619805757W2
Model	RPI-M88H
Status	NO DC
Country	TAIWAN
<b>Energy</b>	
Today Energy	0.00 kWh
Total Life Energy	888880.00 kWh
<b>Input</b>	
Voltage	0.00 / 0.00 V
Current	0.00 / 0.00 A
Power	0 / 0 W
<b>Output</b>	
Voltage	0.00 / 0.00 / 0.00 V

**[HISTORY]**

Bluetooth menu	
<b>Test</b>	
ITEM:	Event Log
START DATE:	 2021/11/10
END DATE:	 2021/11/10
<b>Event Log</b>	
ID	7
Time	2021/12/13 上午 12:00:00
Event	E09 - No Grid
<span>Info</span> <b>History</b> <span>Local Setting</span>	

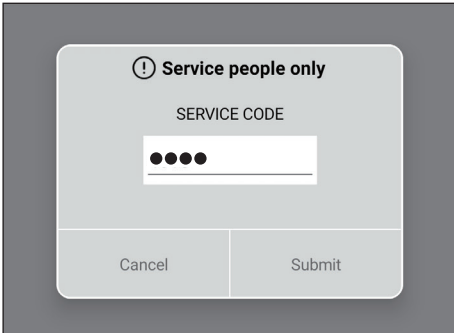
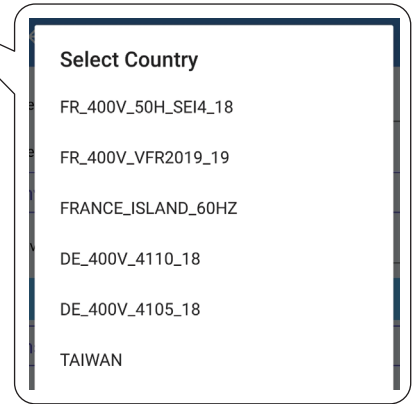
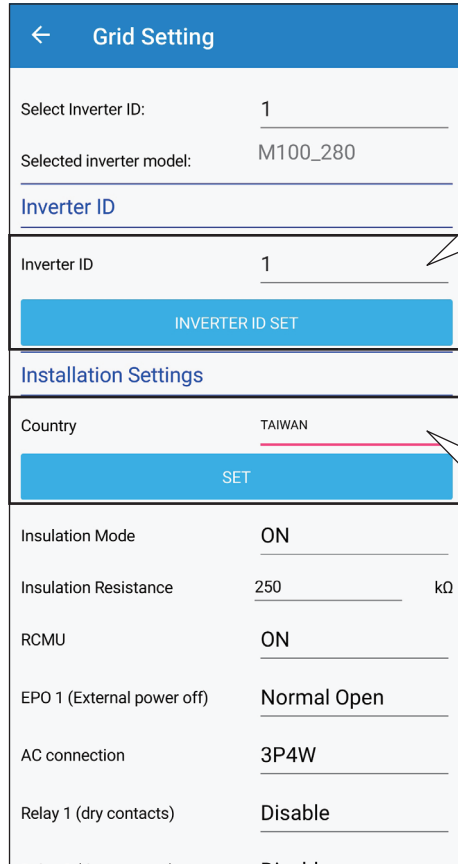
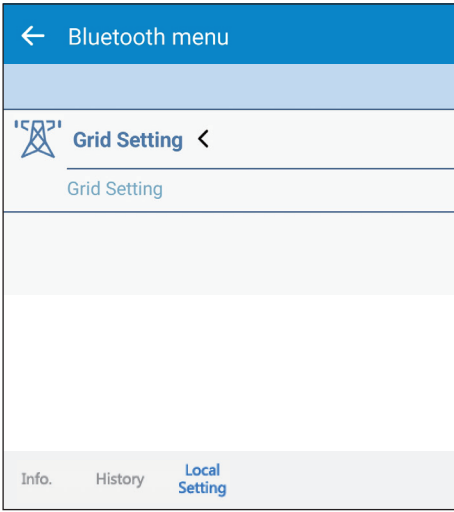
**[LOCAL SETTING]**

Grid Setting	
Select Inverter ID:	1
Selected inverter model:	RPI-M88H
<b>Inverter ID</b>	
Inverter ID	1
<b>INVERTER ID SET</b>	
<b>Installation Settings</b>	
Country	TAIWAN
<b>SET</b>	
<b>SAME MODEL SET</b>	
Insulation Mode	ON
Insulation Resistance	150 kΩ

# 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.

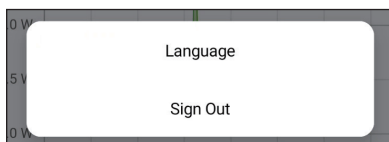
 The iOS and Android App have a slightly different layout. This manual explains the App for the iOS system.

## 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.





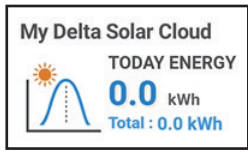
③ Power generation

Showing today's power generation and total power generation.

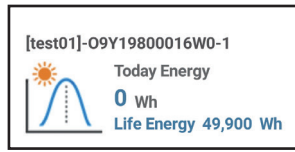
At remote monitoring: showing the power generation for all plant.

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

**[Remote mode]**



**[Local mode]**

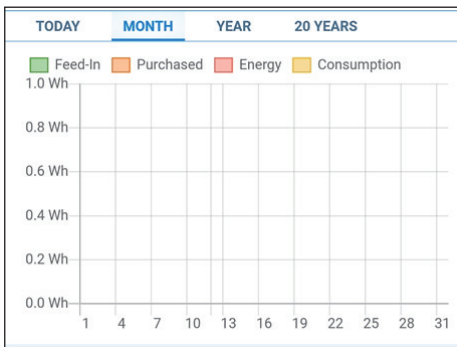


④ Battery capacity

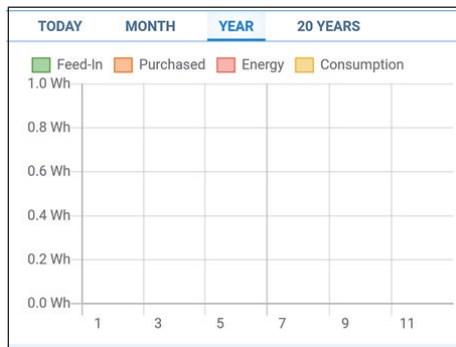
If the site has a storage system, this icon will appear up to indicate the battery capacity.

⑤ Power generation map

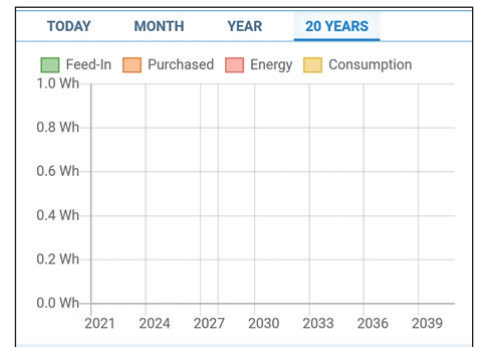
Showing different power generation maps according to the selected time interval.



**[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 :

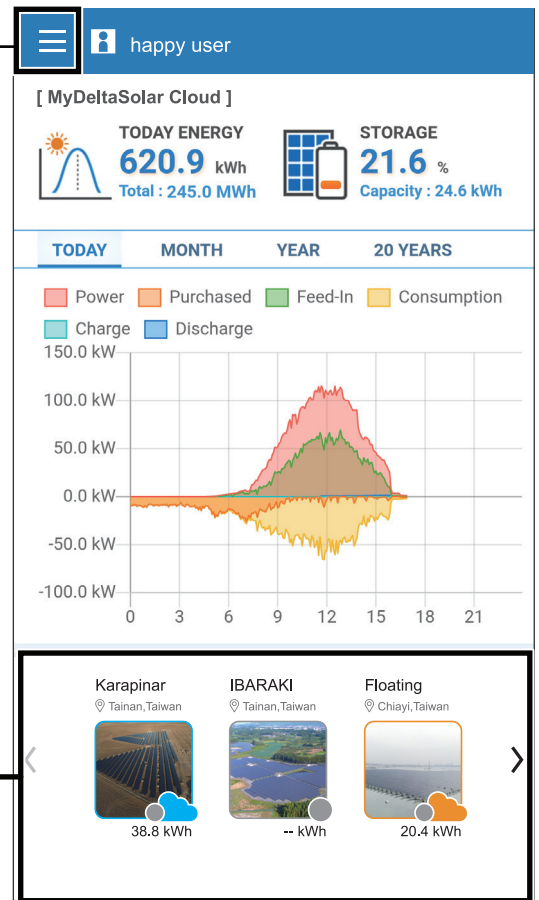
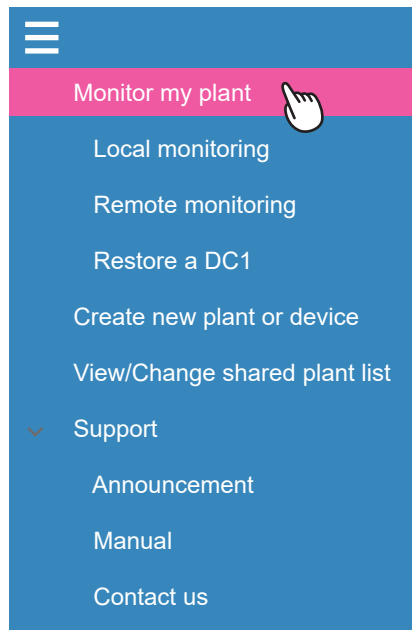
Use Wi-Fi point to point connection with the device nearby and check the information.

### 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 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]

Local Point-to-Point Monitoring

Test

[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: 2021/11/10

DAILY  MONTH  YEAR  20 YEARS

Production

Energy Info History Local Setting Plant Setting

[INFO]

Local Point-to-Point Monitoring

Test

Info

ID 1

Serial Number PVT206006800H

Model H5A\_222

Status ALARM

Country AU\_WP

Energy

Today Energy 0.00 kWh

Total Life Energy 0.00 kWh

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

Energy Info History Local Setting Plant Setting

[HISTORY]

Local Point-to-Point Monitoring

Test

ITEM: Event Log

START DATE: 2021/11/10

END DATE: 2021/11/10

Event Log

ID 7

Time 2021/12/13 上午 12:00:00

Event E09 - No Grid

Energy Info History Local Setting Plant Setting

[CALENDAR] \* DC1 only

Local Point-to-Point Monitoring

Test01

2021/11

Production Consumption

Sell Buy

Charge Discharge

Sun.	Mon.	Tue.	Wed.	Thu.	Fri.
	1	2	3	4	5
	0Wh 0Wh 0Wh	0Wh 0Wh 0Wh	0Wh 0Wh 0Wh	0Wh 0Wh 0Wh	0Wh 0Wh 0Wh
7	8	9	10	11	12
0Wh 0Wh 0Wh	0Wh 0Wh 0Wh	0Wh 0Wh 0Wh	0Wh 0Wh 0Wh	0Wh 0Wh 0Wh	0Wh 0Wh 0Wh
14	15	16	17	18	19
0Wh 0Wh 0Wh	0Wh 0Wh 0Wh	0Wh 0Wh 0Wh	0Wh 0Wh 0Wh	0Wh 0Wh 0Wh	0Wh 0Wh 0Wh

Energy Info History Calendar More

[LOCAL SETTING]

Local Point-to-Point Monitoring

Test

Grid Setting >

Network >

Maintenance >

Function Setting >

Change Device Password

Energy Info History Local Setting Plant Setting

[PLANT SETTING]

Local Point-to-Point Monitoring

Test

PLANT NAME: Test

COUNTRY: Default

CITY: Default

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

SET

Energy Info History 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

Test

[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: 2021/11/10

DAILY  MONTH  YEAR  20 YEARS

Production

Production[W]

0 0.5 1

0 2 4 6 8 10 12 14 16 18 20 22

Plant Type: Feed-in without Power Meter

Energy Info History Local Setting Plant Setting

[Real-Time Data]

[Power / Energy]

[Graph]

## Connection of DC1

Local Point-to-Point Monitoring

Test01

[Real-Time Data]

Production 0.00 kW

Consumption 0.00 kW

Feed-in 0.00 kW

Charge --- kW

SOC --- %

[Power / Energy]  BLOCK  INVERTER

DATA COLLECTOR: O6H20A00732WK

ITEM: Production

Today Energy: 0.00 kWh

Today Feed-in: 0.00 kWh

Today Consumption: 0.00 kWh

Today Purchased: 0.00 kWh

DATE: 2021/11/10

DAILY  MONTH  YEAR  20 YEARS

Production

Production[W]

0 0.5 1

0 2 4 6 8 10 12 14 16 18 20 22

Plant Type: Feed-in with Power Meter

[Real-Time Data]

[Power / Energy - BLOCK]

[Graph]

Local Point-to-Point Monitoring

Test01

[Real-Time Data]

Production 0.00 kW

Consumption 0.00 kW

Feed-in 0.00 kW

Charge --- kW

SOC --- %

[Power / Energy]  BLOCK  INVERTER

DATA COLLECTOR: O6H20A00732WK

INVERTER ID: 1

ITEM: Production

DATE: 2021/11/10

DAILY  MONTH  YEAR  20 YEARS

Production

Production[W]

0 0.5 1

0 2 4 6 8 10 12 14 16 18 20 22

Plant Type: Feed-in with Power Meter

[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	
Test	
<b>Info</b>	
ID	1
Serial Number	PVT206006800H
Model	H5A_222
Status	ALARM
Country	AU_WP
<b>Energy</b>	
Today Energy	0.00 kWh
Total Life Energy	0.00 kWh
<b>Input</b>	
Voltage	0.00 / 0.00 V
Current	0.00 / 0.00 A
Power	0 / 0 W
<b>Output</b>	
Voltage	0.00 V
Current	0.00 A
Power	0 W
<b>Meter Info</b>	
Voltage	0.00 V
Current	0.00 A
Power	0 W - Feed-in
Meter Status	Off
Switching Time	---
<b>FW Version</b>	
COMM	88.98
DSP	---

## Connection of DC1

← Local Point-to-Point Monitoring	
Test01	
<input checked="" type="radio"/> BLOCK <input type="radio"/> INVERTER	
DATA COLLECTOR:	O6H20A00732WK
<b>Info</b>	
Serial Number	O6H20A00732WK
Model	DC1_100
Meter Quantity	1
Firmware Version	02.03
<b>Energy</b>	
Today Energy	0.00 kWh
Total Life Energy	0.00 kWh
Energy	<b>Info.</b> History Calendar <span>⋮</span>
	More

[BLOCK]

← Local Point-to-Point Monitoring	
Test01	
<input type="radio"/> BLOCK <input checked="" type="radio"/> INVERTER	
DATA COLLECTOR:	O6H20A00732WK
INVERTER ID:	1
<b>Info</b>	
ID	1
Serial Number	PVT206006800H
Model	H5A_222
Status	ALARM
Country	AU_WP
<b>Energy</b>	
Today Energy	0.00 kWh
Total Life Energy	0.00 kWh
<b>Input</b>	
Voltage	0.00 / 0.00 V
Current	0.00 / 0.00 A
Power	0 / 0 W
Energy	<b>Info.</b> History Calendar <span>⋮</span>
	More

[INVERTER]

# HISTORY

## Connection of Inverter

### [Event Log]

← Local Point-to-Point Monitoring

Test

ITEM:

START DATE:

END DATE:

Event Log

ID: 7

Time: 2021/12/13 上午 12:00:00

Event: E09 - No Grid

Energy
Info.
History
Local Setting
Plant Setting

### [Startup Log]

← Local Point-to-Point Monitoring

Test

ITEM:

Startup Log

ID: 1

Time: 2021/8/5 上午 12:00:00

Energy
Info.
History
Local Setting
Plant Setting

### [Derating Log]

← Local Point-to-Point Monitoring

Test

ITEM:

START DATE:

END DATE:

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: -

Energy
Info.
History
Local Setting
Plant Setting

## Connection of DC1

### [BLOCK]

← Local Point-to-Point Monitoring

Test01

BLOCK  INVERTER

DATA COLLECTOR:

ITEM:

Startup Log

Data Collector: O6H20A00737WK

Time: 2021/8/5 上午 12:00:00

Energy
Info.
History
Calendar
More

### [INVERTER]

← Local Point-to-Point Monitoring

Test01

BLOCK  INVERTER

DATA COLLECTOR:

INVERTER ID:

ITEM:

START DATE:

END DATE:

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

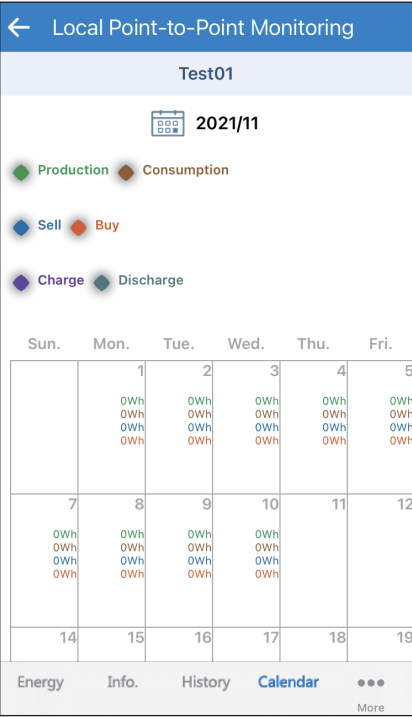
Event: E09 - No Grid

Energy
Info.
History
Calendar
More

# CALENDAR

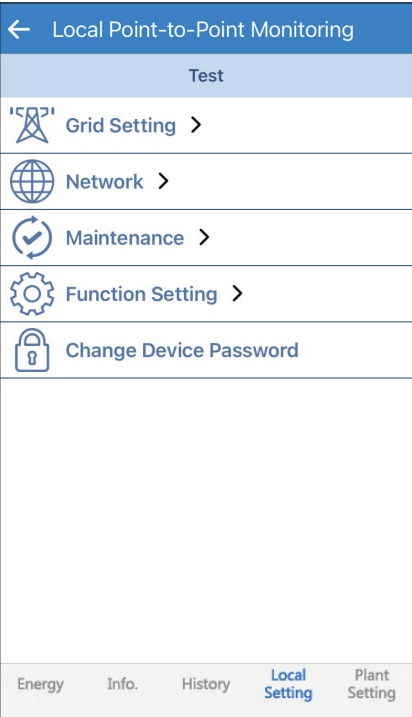
The calendar is only displayed when under the connection with DC1. Users can check the energy flow day by day.

## Connection of DC1

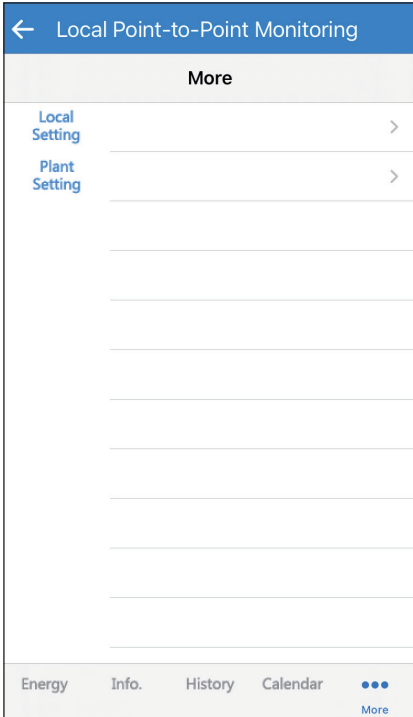
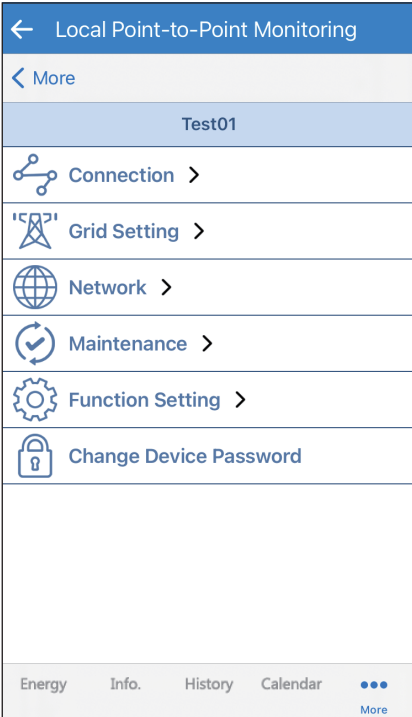


# LOCAL SETTING

## Connection of Inverter



## Connection of DC1

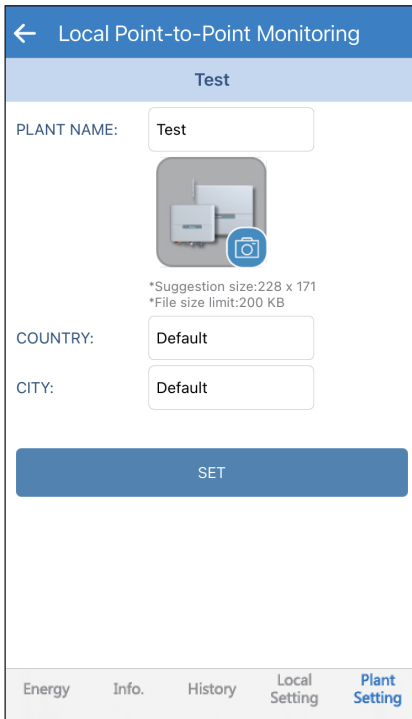


\* For more detail please refer chapter 1.4 "List of APP pages"

# PLANT SETTING

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

## Connection of Inverter



Local Point-to-Point Monitoring

Test

PLANT NAME: Test

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

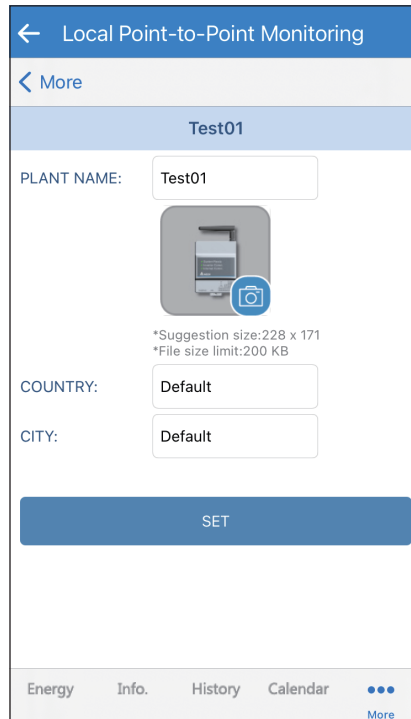
COUNTRY: Default

CITY: Default

SET

Energy Info. History Local Setting **Plant Setting**

## Connection of DC1



Local Point-to-Point Monitoring

Test01

PLANT NAME: Test01

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

COUNTRY: Default

CITY: Default

SET

Energy Info. History Calendar **More**



## 4.2.2. Remote monitoring

There are five tabs in "Remote monitoring."

### [Energy]

### [History]

Plant Name	Time
Test	2021-11-10 11:38:45

### [Calendar]

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

### [Remote Setting]

### [Plant Setting]

# 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]

ID	Serial Number	Model	Status	Today Energy	Life Energy
1	PVT206006800H	HSA_222	Alarm	0.0 kWh	0.0 kWh

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

ID	Voltage	Current	Power
1	0 V	0 A	0 W

# Connection of DC1

## [PLANT]

## [DATA COLLECTOR]

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

Data Collector	Today Energy	Life Energy
O6H20A00732WK	0.0 kWh	0.0 kWh

## [INVERTER]

ID	Serial Number	Model	Status	Today Energy	Life Energy
1	PVT206006800H	HSA_222	Alarm	0.0 kWh	0.0 kWh

ID	Voltage	Current	Power
1			

ID	Voltage	Current	Power

# 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]

Remote Access Service

PLANT  INVERTER

PLANT NAME : TEST

ITEMS : Startup

Plant Name	Time
Test	2021-11-10 11:38:45

Energy History Calendar Remote Setting Plant Setting

[INVERTER]

Remote Access Service

PLANT  INVERTER

INVERTER ID : ALL

ITEMS : Event

START DATE : 2021-11-10

END DATE : 2021-11-10

ID	Time	Event
----	------	-------

Energy History Calendar Remote Setting Plant Setting

Event

Disconnect

Startup

Remote Access Service

PLANT  INVERTER

INVERTER ID : ALL

ITEMS : Disconnect

START DATE : 2021-11-10

END DATE : 2021-11-10

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

Energy History Calendar Remote Setting Plant Setting

Remote Access Service

PLANT  INVERTER

INVERTER ID : ALL

ITEMS : Startup

ID	Time
1	2021-11-10 11:20:00

Energy History Calendar Remote Setting Plant Setting

# Connection of DC1

## [PLANT]

Remote Access Service

PLANT  DATA COLLECTOR  INVERTER

PLANT NAME : TEST01

ITEMS : Startup

Plant Name	Time
Test01	2021-11-10 16:12:17

Energy History Calendar Remote Setting Plant Setting

## [DATA COLLECTOR]

Remote Access Service

PLANT  DATA COLLECTOR  INVERTER

DATA COLLECTOR : O6H20A00732WK

ITEMS : Disconnect

START DATE : 2021-11-10

END DATE : 2021-11-10

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

Energy History Calendar Remote Setting Plant Setting

Done

Disconnect

Startup

Remote Access Service

PLANT  DATA COLLECTOR  INVERTER

DATA COLLECTOR : O6H20A00732WK

ITEMS : Startup

Data Collector	Time
O6H20A00732WK	2021-11-10 16:12:18

Energy History Calendar Remote Setting Plant Setting

## [INVERTER]

Remote Access Service

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)

Energy History Calendar Remote Setting Plant Setting

Done

Event

Disconnect

Startup

Remote Access Service

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

PLANT  DATA COLLECTOR  INVERTER

DATA COLLECTOR : O6H20A00732WK

INVERTER ID : ALL

ITEMS : Startup

ID	Time
1	2021-11-10 16:15:00

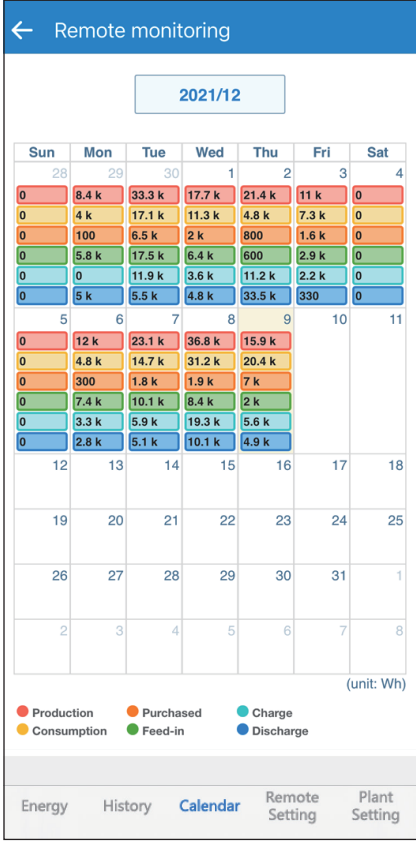
Energy History Calendar Remote Setting Plant Setting

# 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]



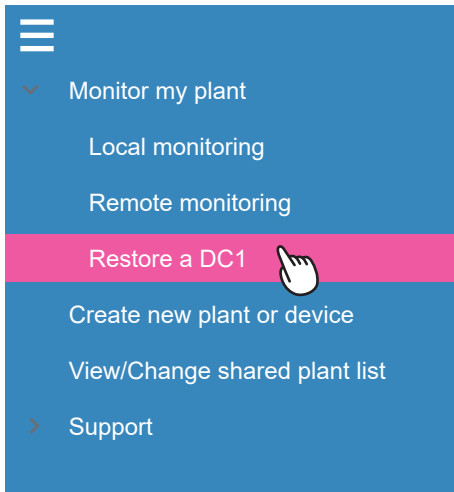
## 4.2.3. Restore a DC1

### ATTENTION



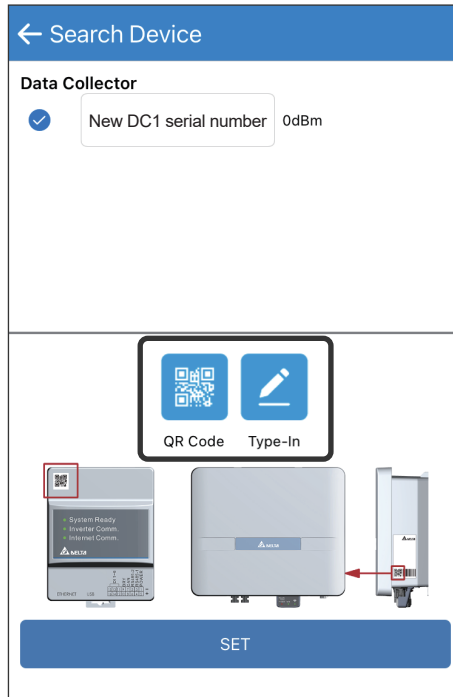
- Before restoring DC1, please backup the data from the old DC1 (refer to Chapter 5.4).
- Please insert the USB with the backup file to a new DC1 and start to restore.

Click Menu --> Restore a DC1

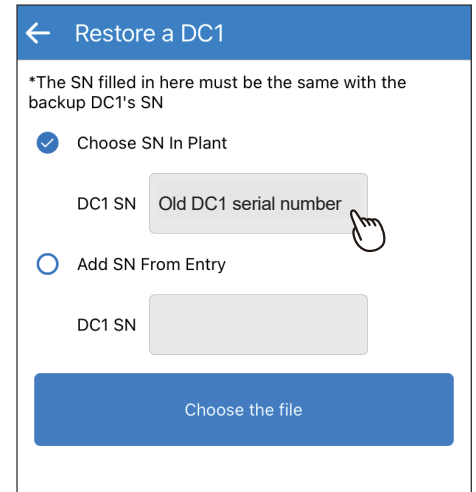


Please insert the USB with the backup file to a new DC1 and start to restore.

Scan the QR code or enter the serial number of the new DC1

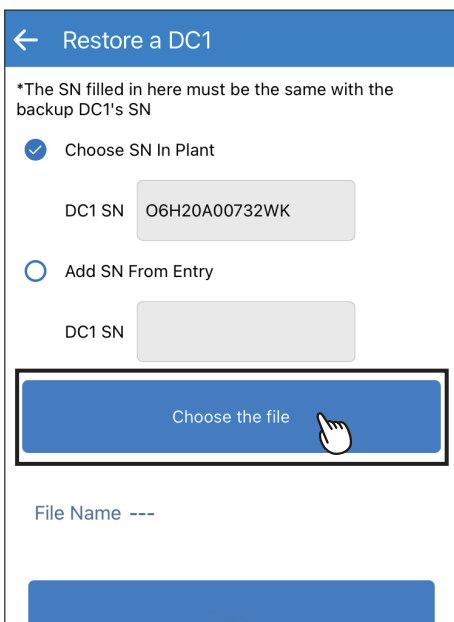


Select the serial number of the old DC1.

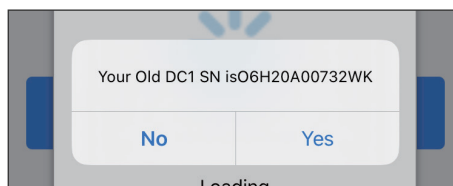


if the serial is not on the list, users can try to type in the S/N manually.

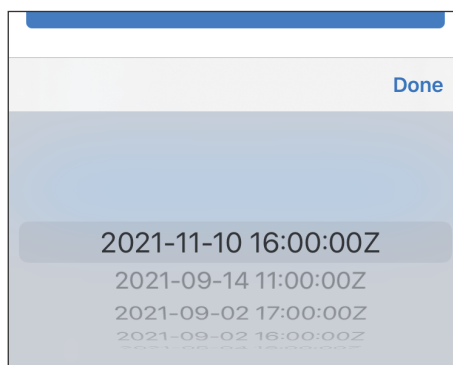
Click "Choose the file"



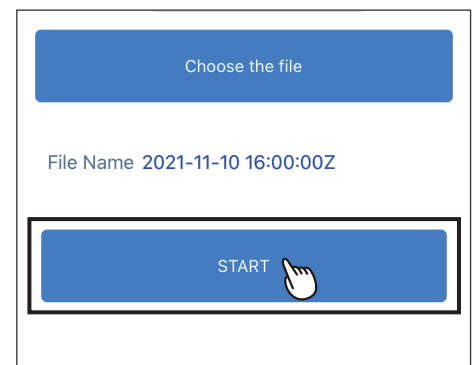
Confirm the serial number of the old DC1.



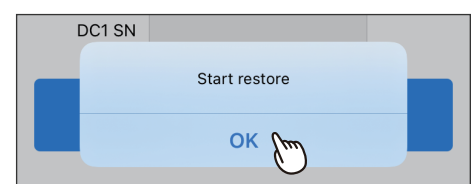
Select the backup file.



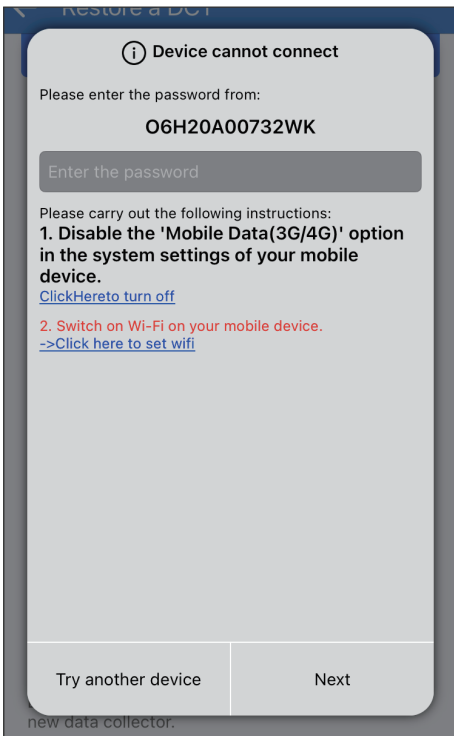
Check if the file is correct and click "START".



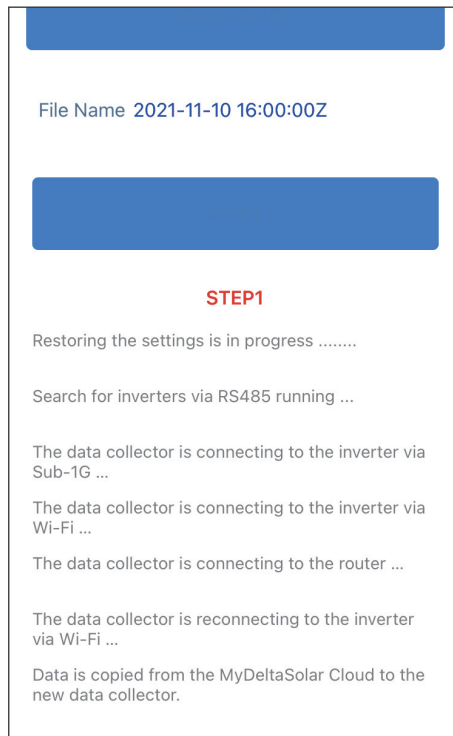
Click "OK"



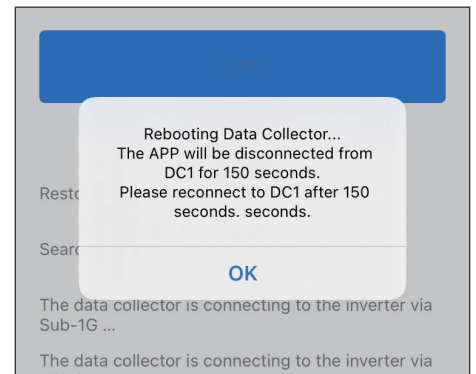
Type in the password of the old DC1.



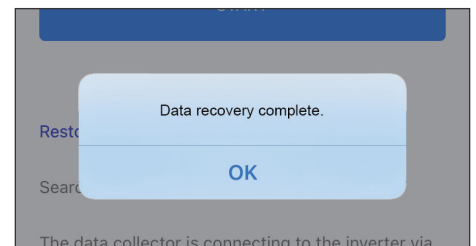
Starting the restore process.



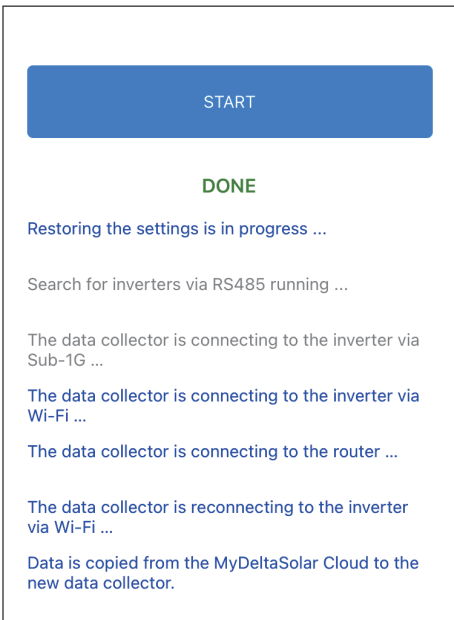
Restoring takes around 150 sec. Click "OK" to proceed.



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 graph plots power in kW over a 24-hour period, showing 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. Each card includes a small image of the plant and a cloud icon.

## 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	✓	🔒	🔒

Select the plant to be edited.

Click here to check the function accessibility

Edit the authority list

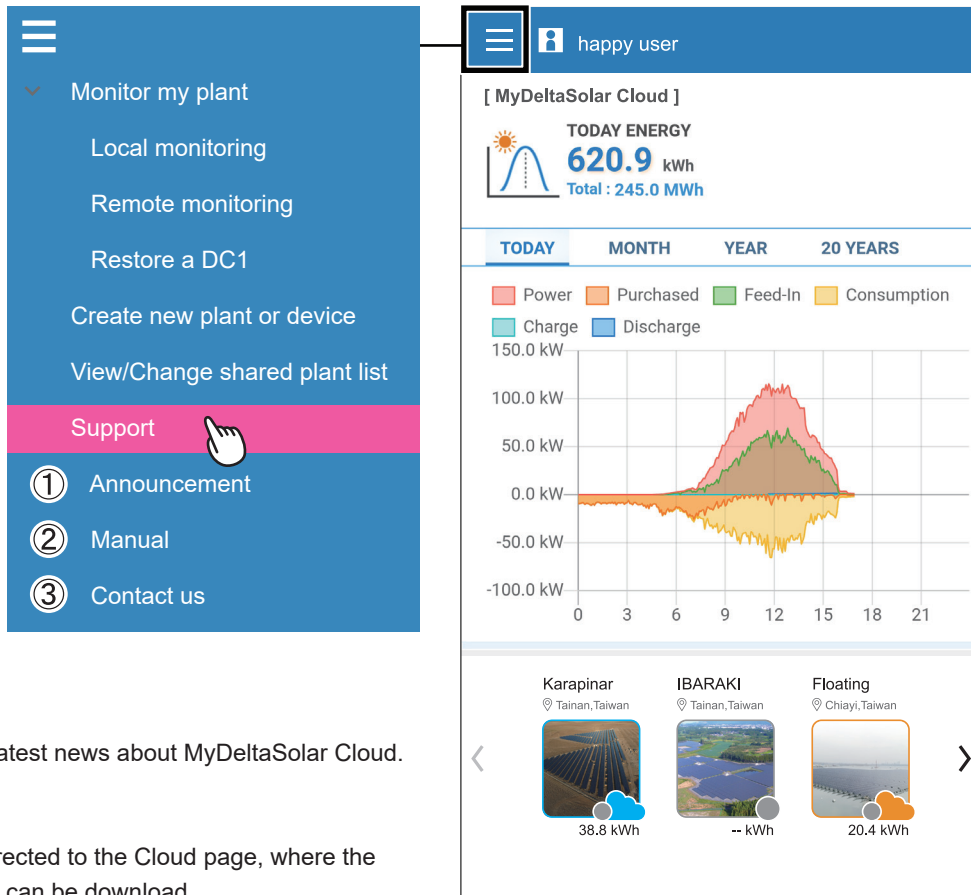
Share plant with specific people

\* 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

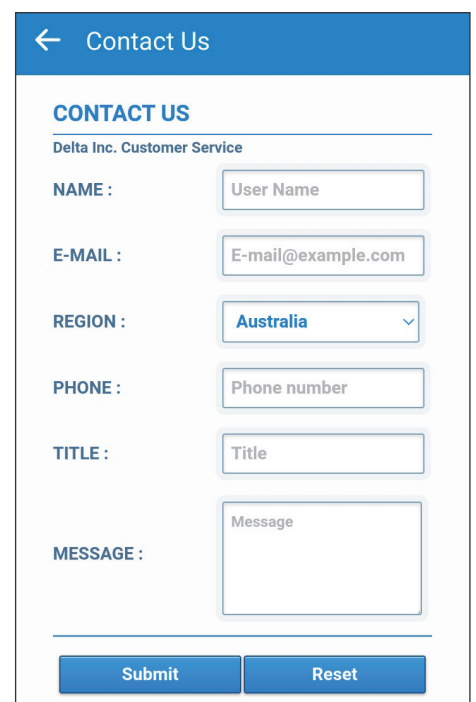
There are three options in "Support": "Announcement", "Manual" and "Contact us".



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 how to set up the two communication way of DC1.

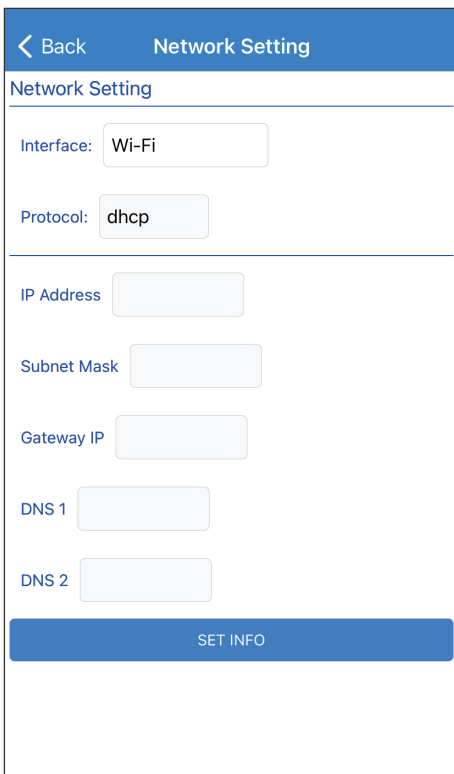
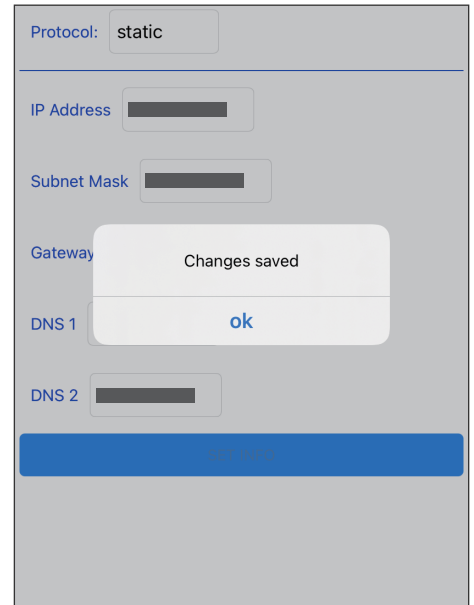
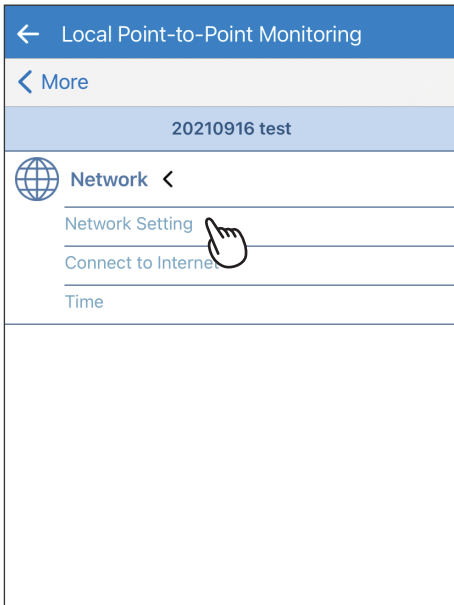
## 5.1. Modbus TCP/IP

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.

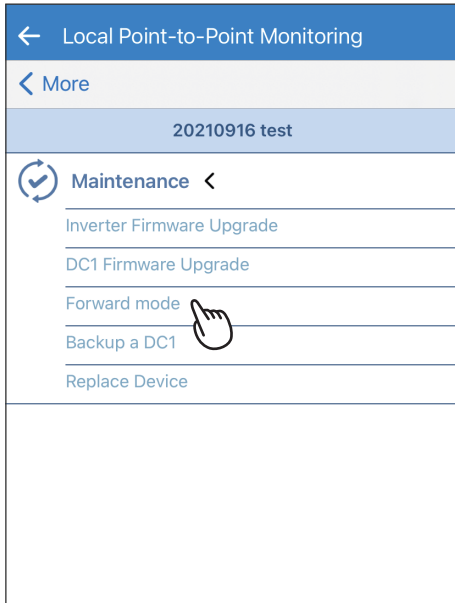
Read the external communication address via this IP.

## 5.2. Modbus RTU (Forward mode)

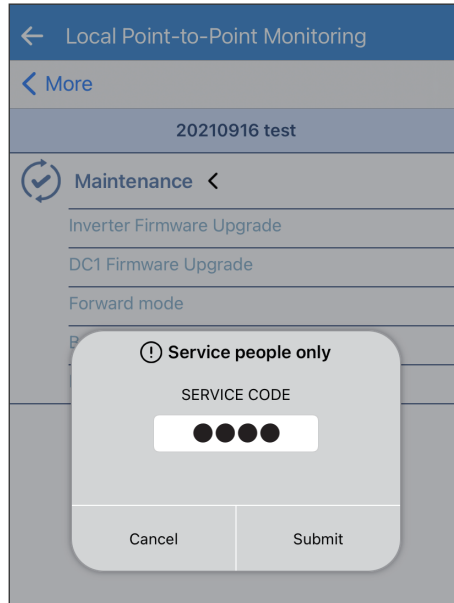
\* Please contact local service for the password

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

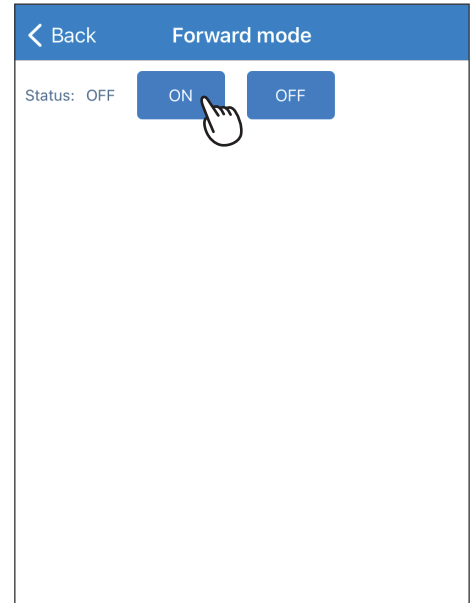
LOCAL SETTING -> Maintenance  
-> Forward mode



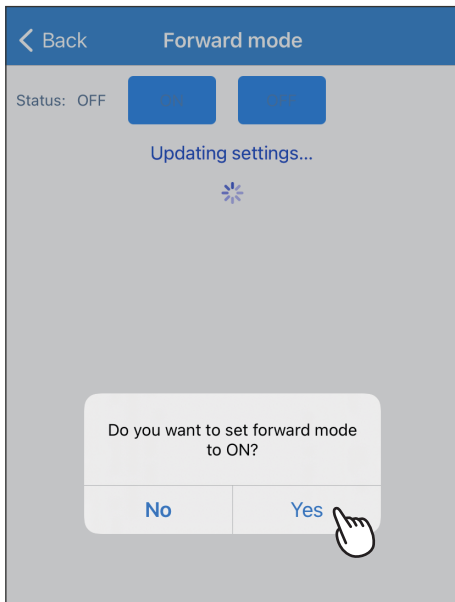
Please contact Delta local service for the password.



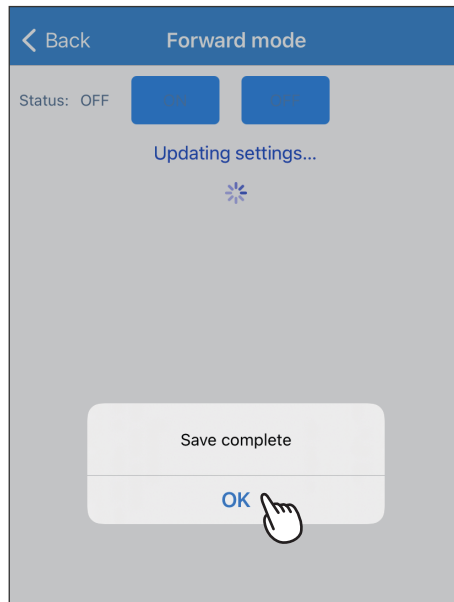
Click "OK" to save the settings.



Click "YES".



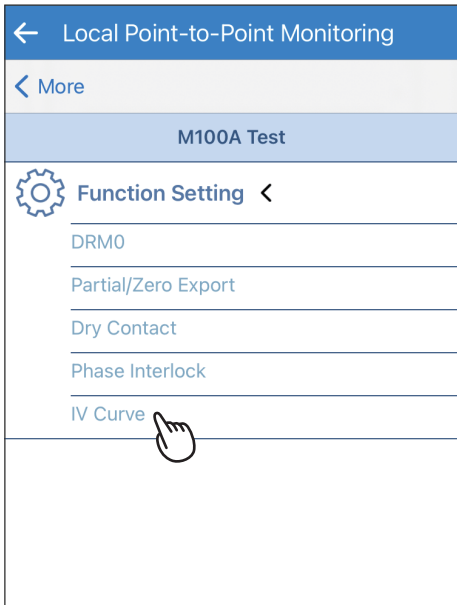
Save complete.



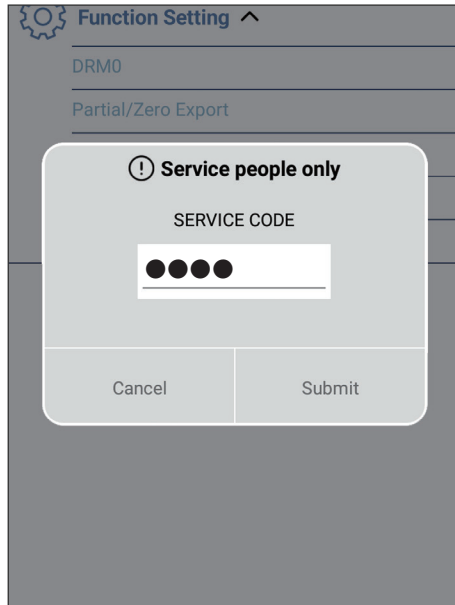
# 5.3. IV Curve

\* Please contact local service for the password

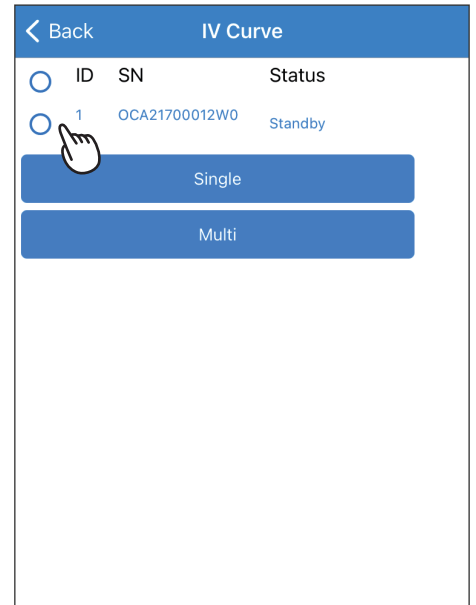
LOCAL SETTING -> Maintenance  
-> Forward mode



Please contact Delta local service for the password.

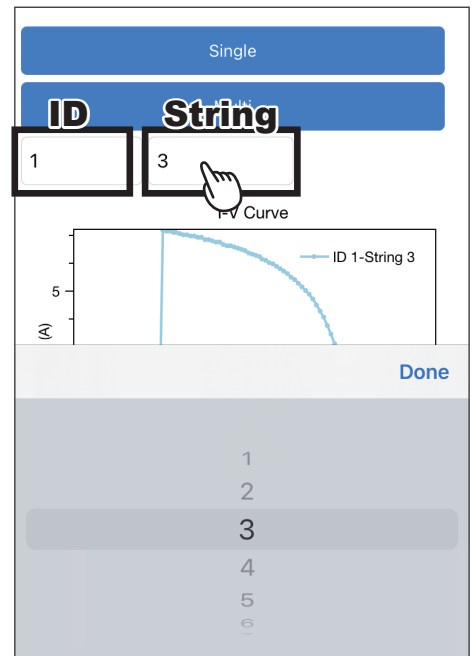
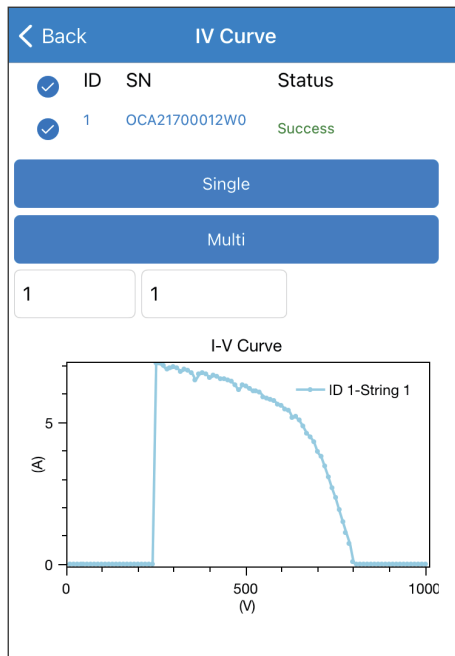
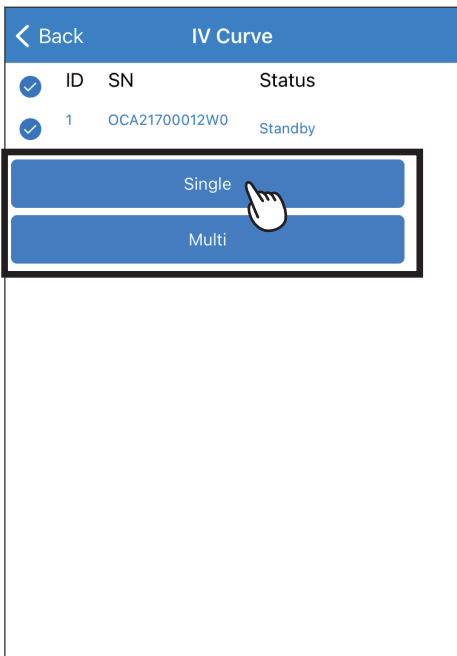


Check the inverter for IV curve scan.



- 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" to avoid power drop of your plant.

Select ID and String to see the IV curve.





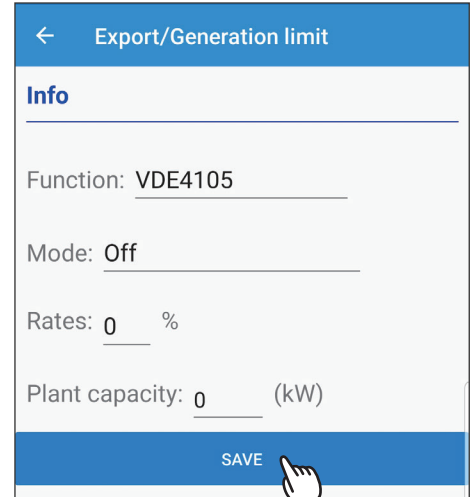
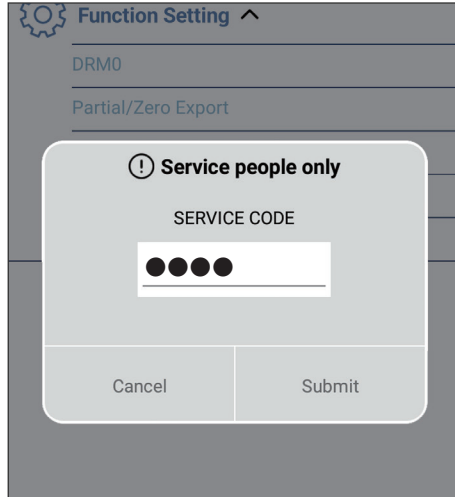
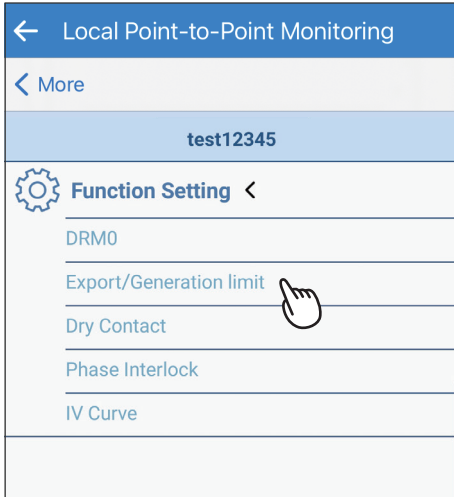
# 5.4. Dynamic Power Control (Export Limit Control & Generation Limit Control)

## 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)

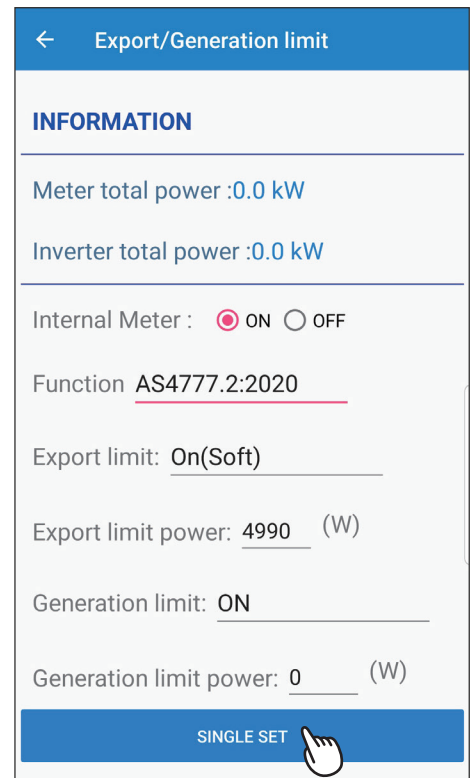
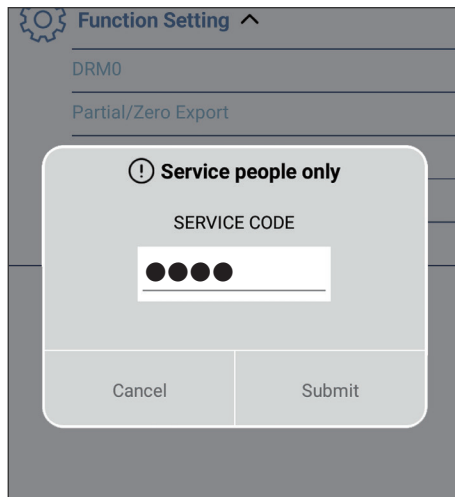
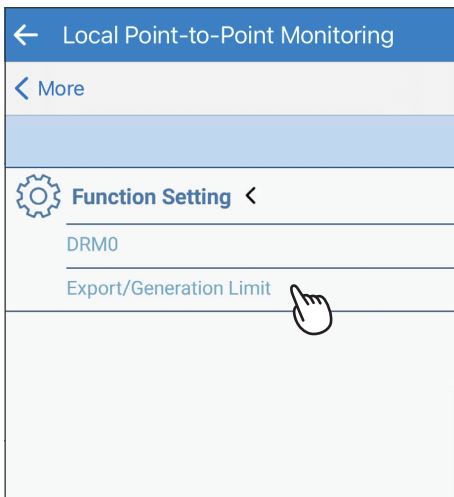
## Flex Inverter

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

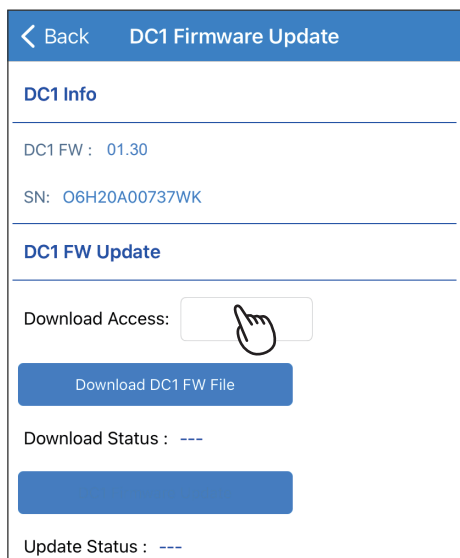
This section shows how to update the firmware for DC1 and WiFi inverter. Please refer to 6.1.1 and 6.1.2 for more details.

### 6.1.1. DC1 Firmware Update

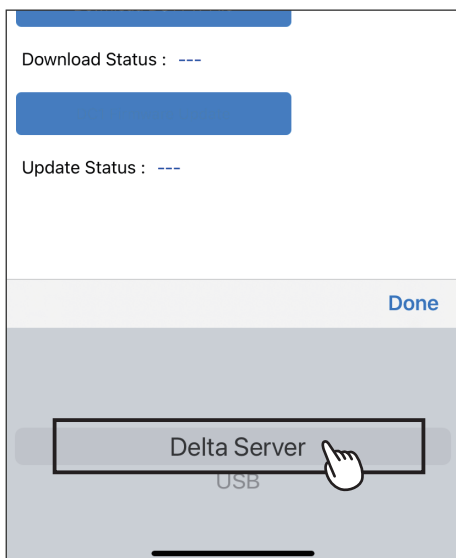
#### [DC1 Firmware Update - Delta Server update method]

LOCAL SETTING -> Maintenance -> DC1 Firmware Update

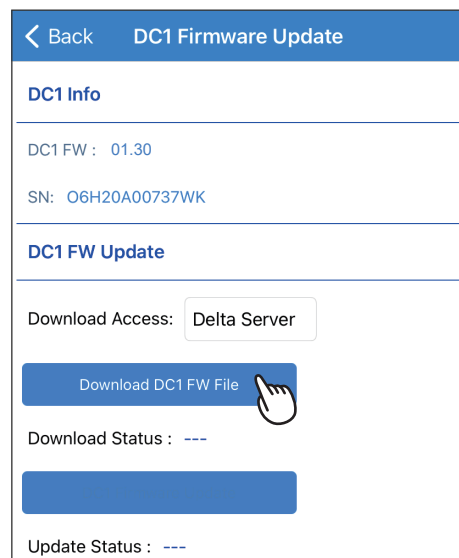
Select Download Access.



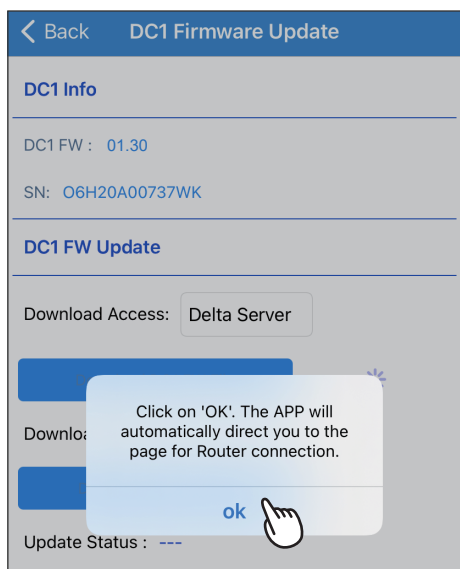
Click "Delta server".



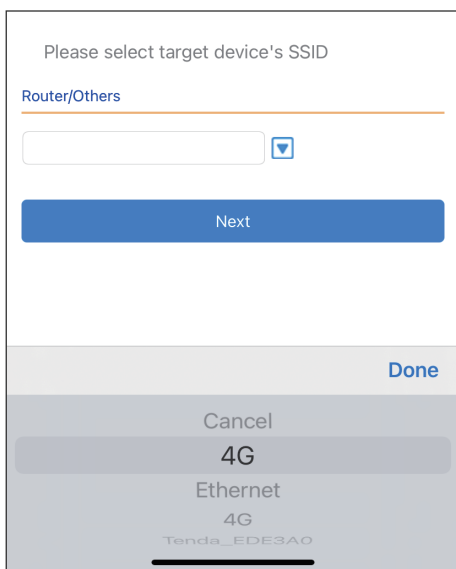
Click "DOWNLOAD DC1 FW FILE".



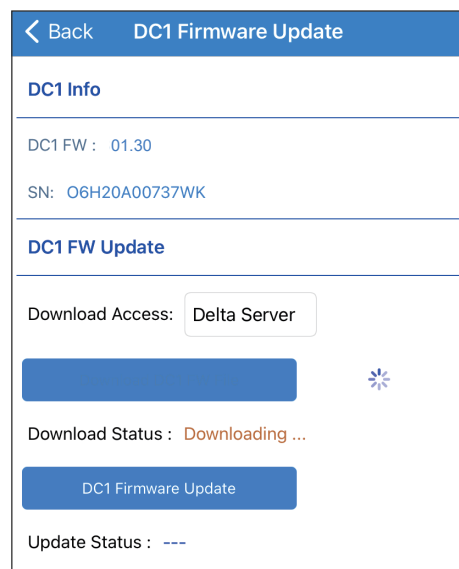
Click "OK".



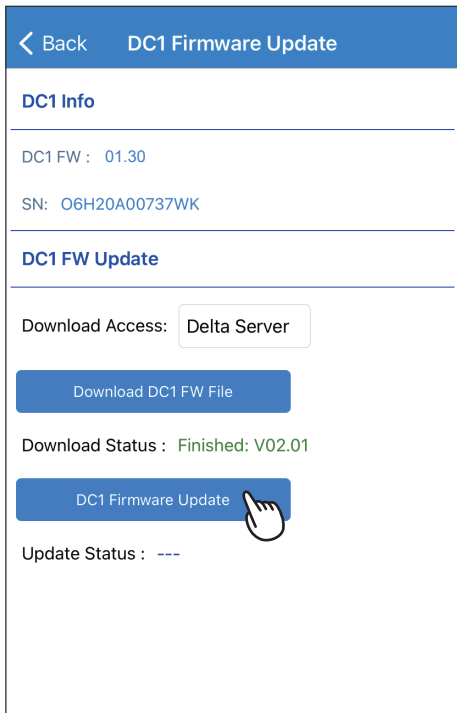
Select a method to get Internet ability.



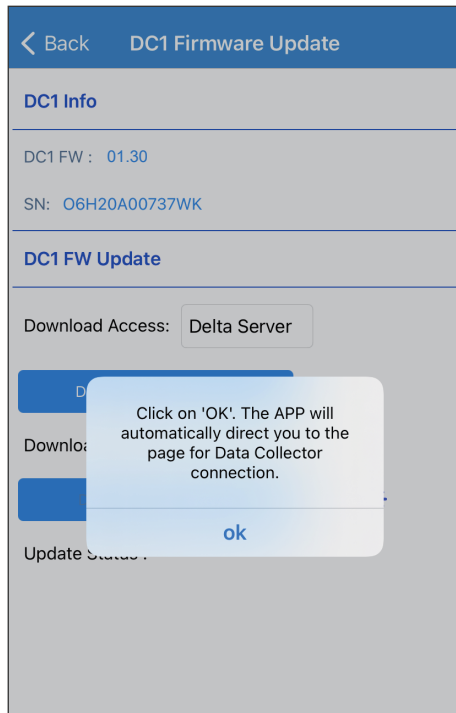
Downloading...



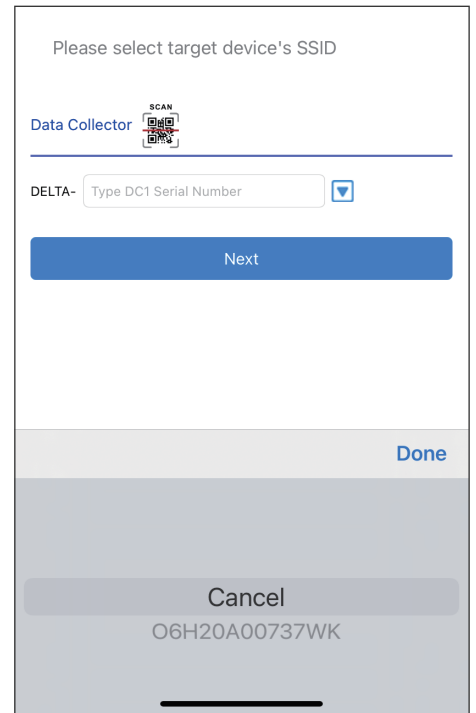
After the FW download, please click "DC1 FIRMWARE UPDATE" to start the updating process.



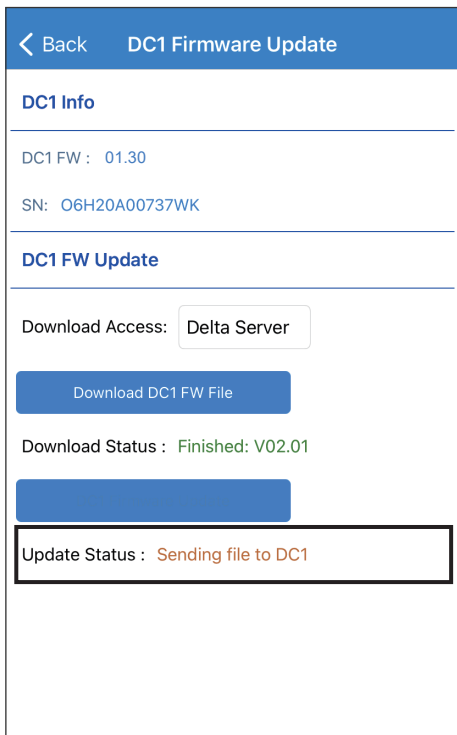
Click "OK".



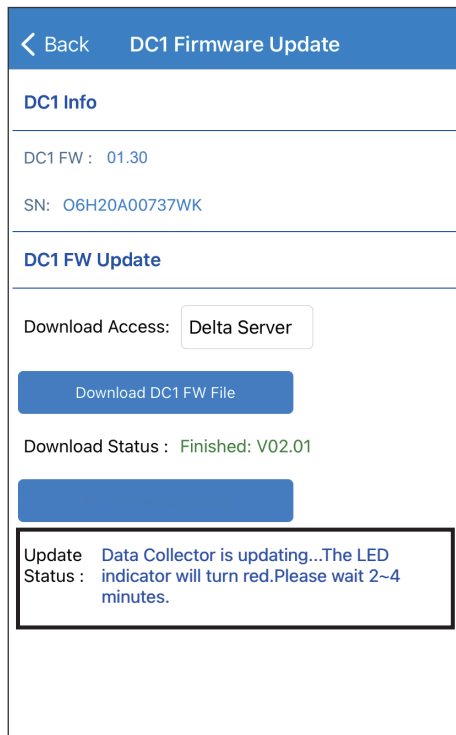
Select the serial number of the DC1.



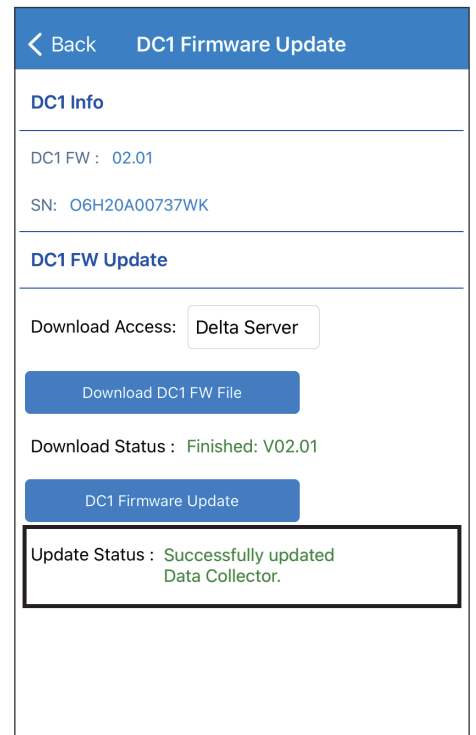
Sending file to DC1...



DC1 is updating...



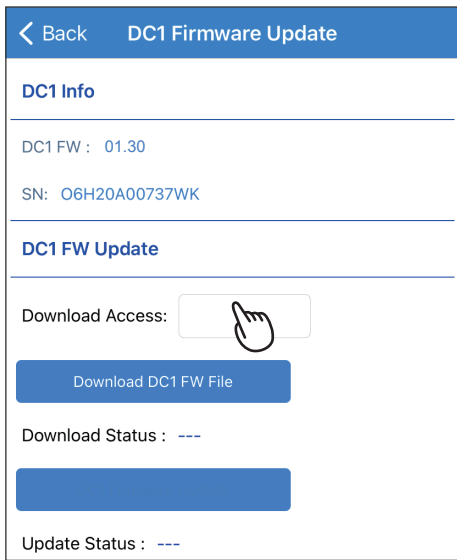
Successfully updated DC1.



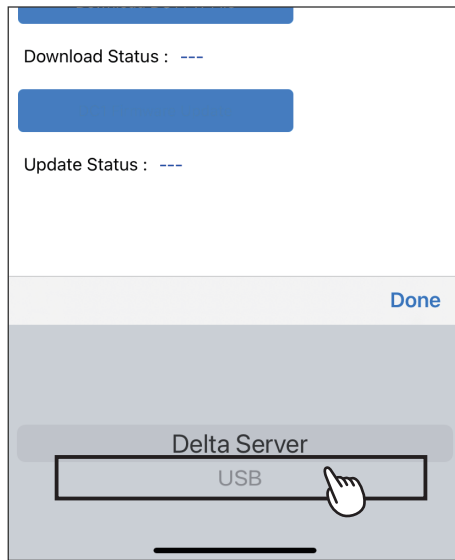
# [DC1 Firmware Update - USB update method]

LOCAL SETTING -> Maintenance -> DC1 Firmware Update

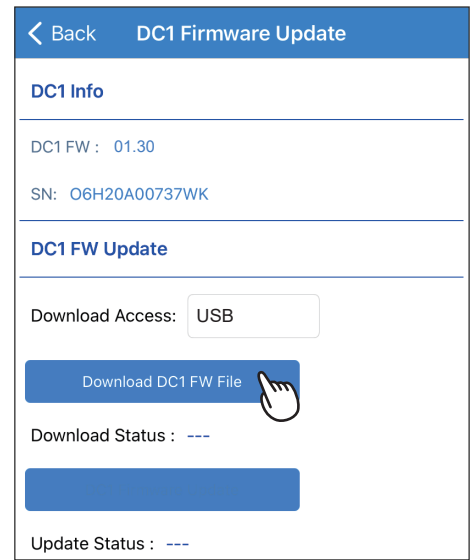
Select Download Access.



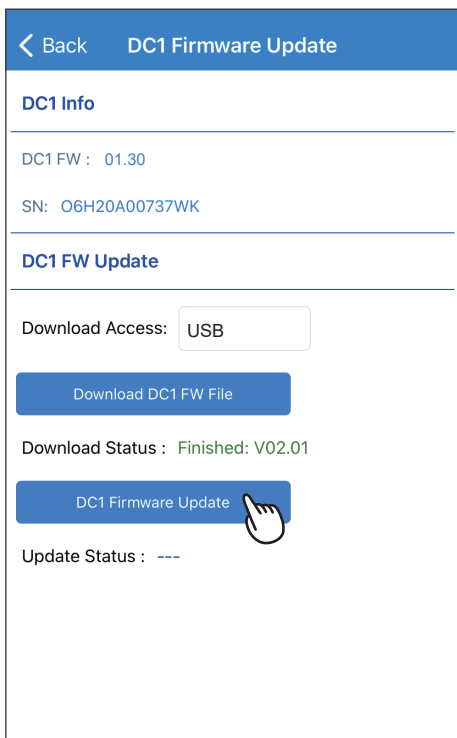
Click "USB".



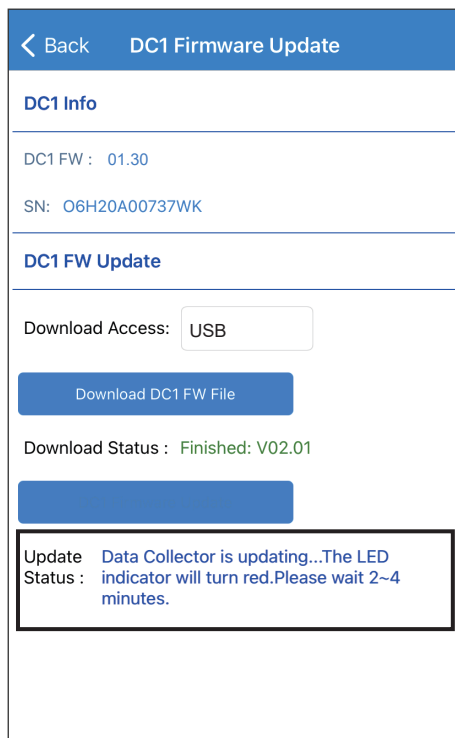
Click "DOWNLOAD DC1 FW FILE".



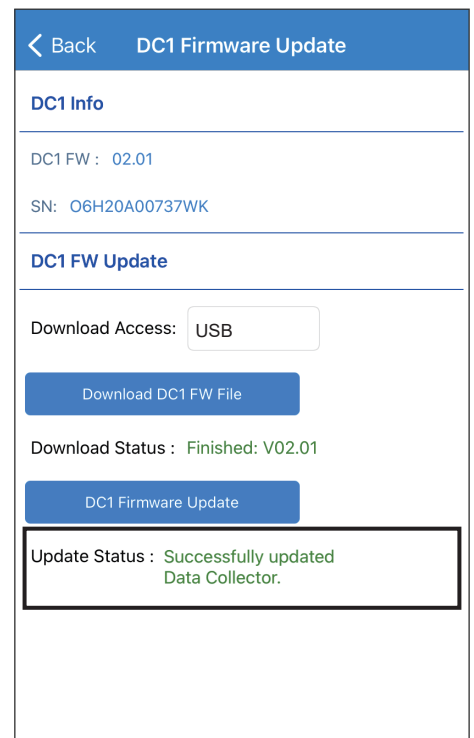
After the FW download,  
please click "DC1 FIRMWARE UPDATE"  
to start the updating process.



DC1 is updating...



Successfully updated DC1.

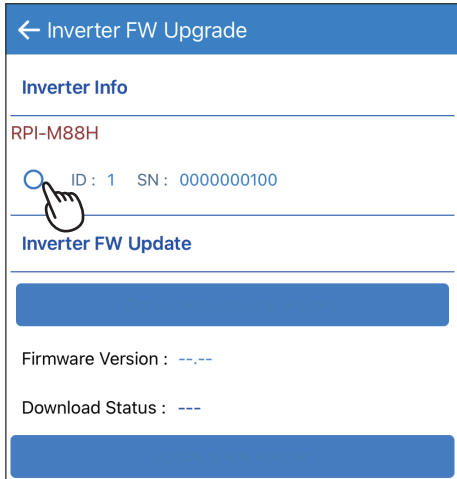


# 6.1.2. Inverter FW Update

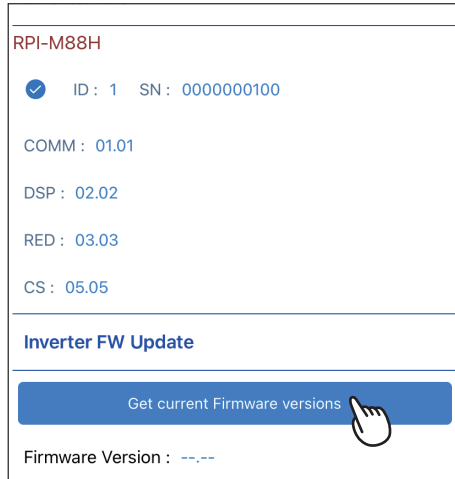
## [Inverter FW Update - connection of DC1]

LOCAL SETTING -> Maintenance -> Inverter Firmware Update

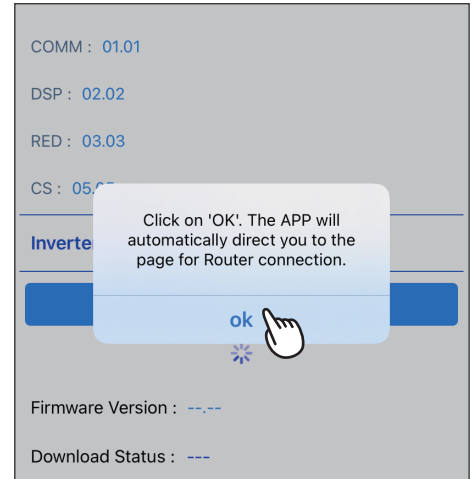
Select the Inverter S/N for FW update.



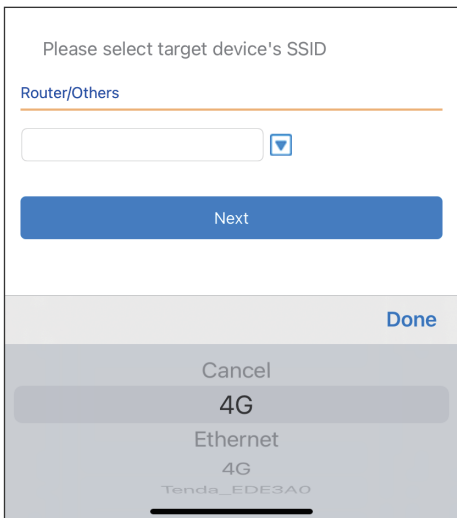
Click "GET CURRENT FIRMWARE VERSIONS".



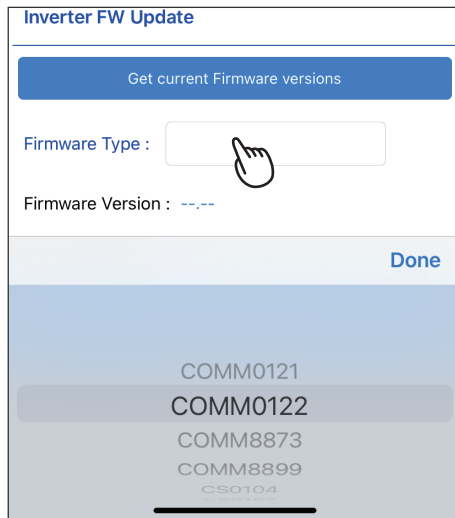
Click "OK".



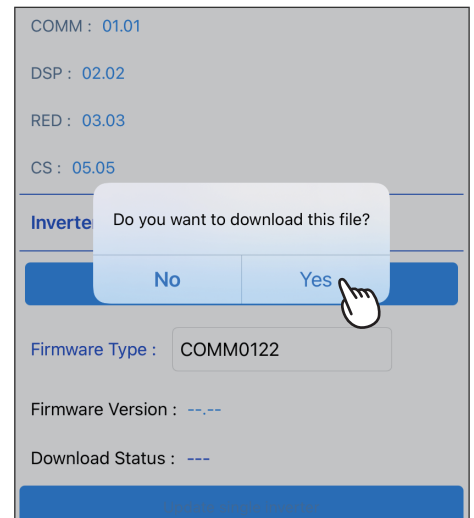
Select a method to get Internet ability.



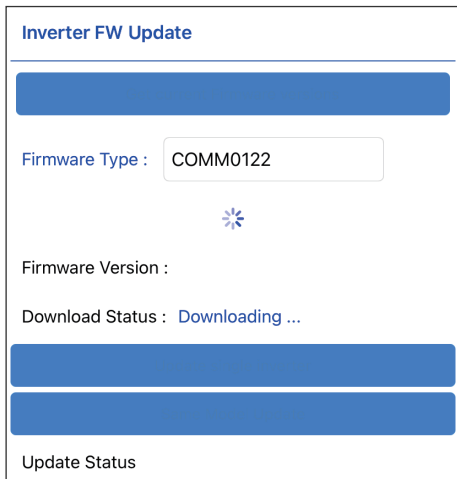
Select FW type, please confirm with local service for the FW type.



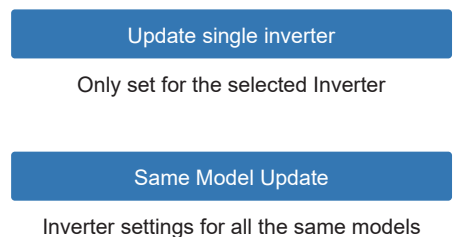
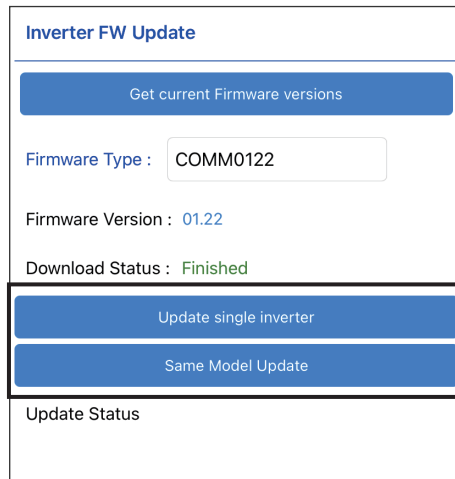
Click "YES".



Downloading...



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



Click "OK".

COMM : 01.01  
DSP : 02.02  
RED : 03.03  
CS : 05

**Inverter FW Update**

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

Same Model Update

Updating...

COMM : 01.01  
DSP : 02.02  
RED : 03.03  
CS : 05

**Inverter FW Update**

Please wait...

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

Update single inverter

Same Model Update

Success.

**Inverter FW Update**

Get current Firmware versions

Firmware Type :

Firmware Version : 01.22

Download Status : Finished

Update single inverter

Same Model Update

Update Status

Success

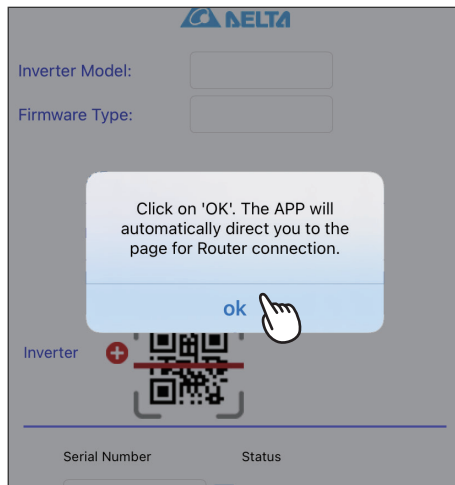
# [Inverter FW Update - connection of inverter]

LOCAL SETTING -> Maintenance -> Firmware Update

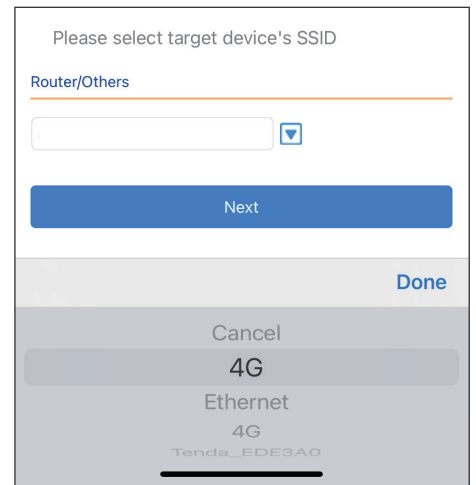
Enter Firmware update page.



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



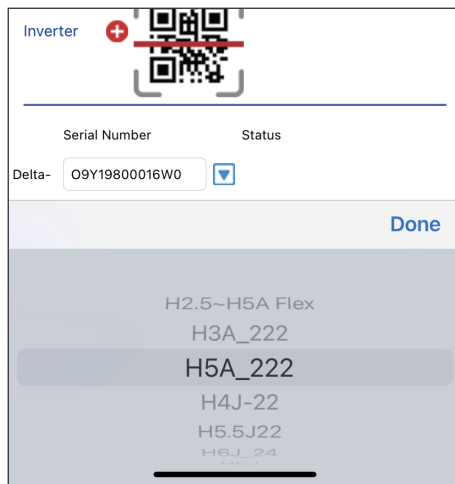
Select a method to get Internet ability.



Click "Inverter Model".



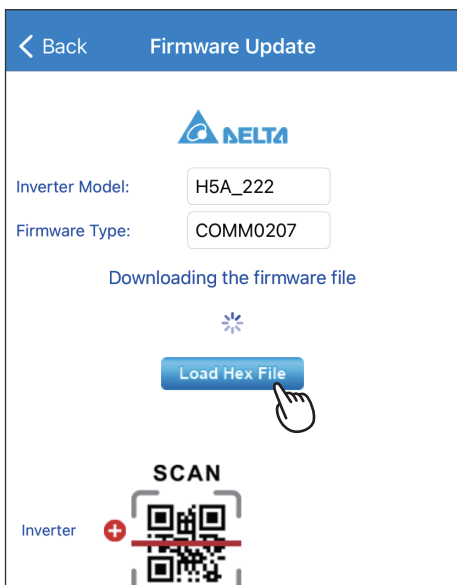
Select a Inverter model for FW update.



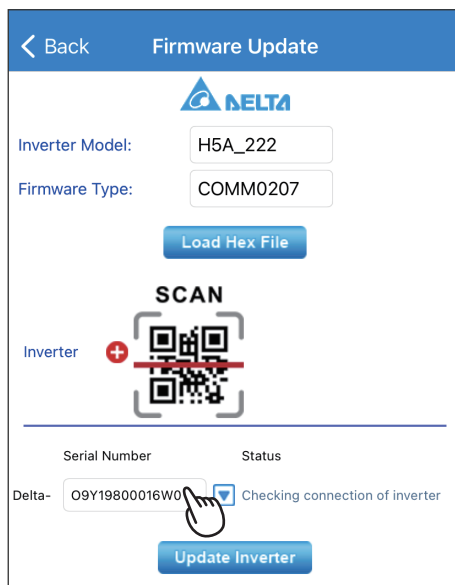
Select FW type, please confirm with local service for the FW type.



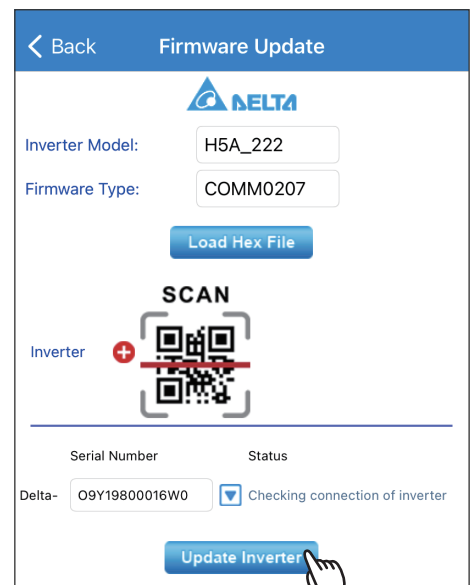
Click "Load Hex File".



Select the Inverter serial number for FW update.




Click "Update Inverter".



Upgrading...

Back Firmware Update



Inverter Model: H5A\_222  
Firmware Type: COMM0207

Load Hex File

Inverter 

Serial Number	Status
Delta- 09Y19800016W0	 Upgrading

Initial InterProcess Rate:43%

Firmware Version : 02.07


Information:  
TCPGetPIDCmd done  
ReqBoot1Tcp done  
ReqBoot2Tcp done  
ProcessorSelectTCP done


Click "OK".

Back Firmware Update

Inverter Model: H5A\_222  
Firmware Type: COMM0207

Load Hex File

Inverter 

Serial Number	Status
Delta- 09Y19800016W0	 Success

Update Inverter

Firmware Version : 02.07

Information:  
BurnProcessTCP done  
BankCloseProcTCP done  
BurnDoneProcTCP done  
InternalProcTCP\_final done  
Total Tx Len :227968

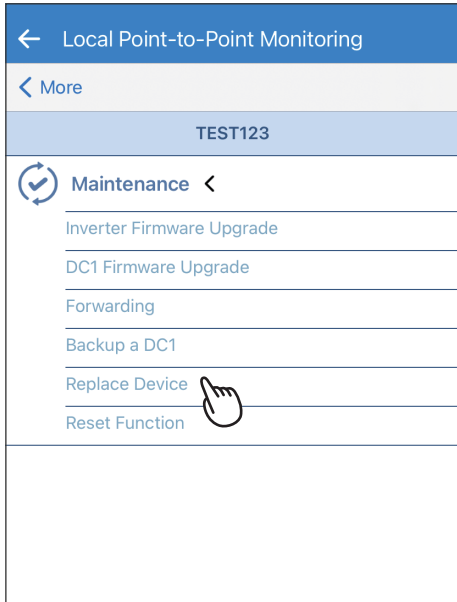


# 6.2. Replace inverter

\* Please contact local service for the password

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

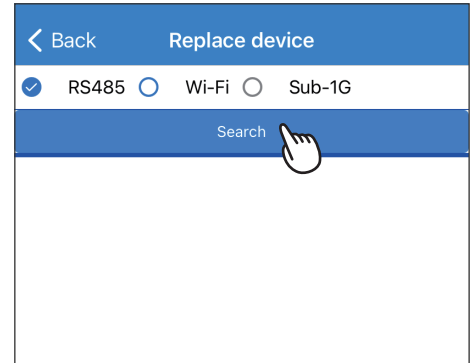
LOCAL SETTING -> Maintenance  
-> Replace Device



Please contact Delta local service for the password.

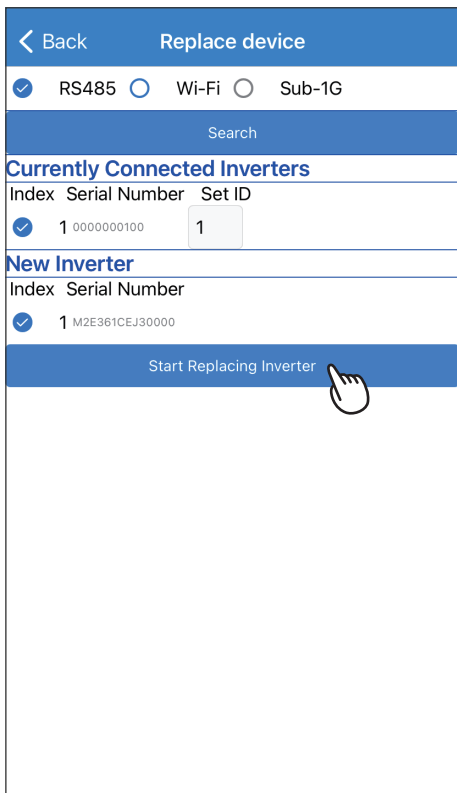


Select the connection method of DC1 and inverter then click "SEARCH".

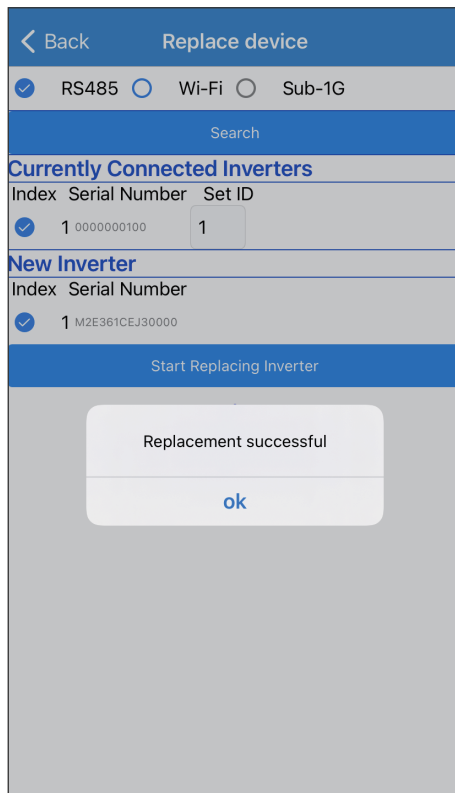


Before click "SEARCH", please confirm the old inverter has been totally replaced by a new inverter on site.

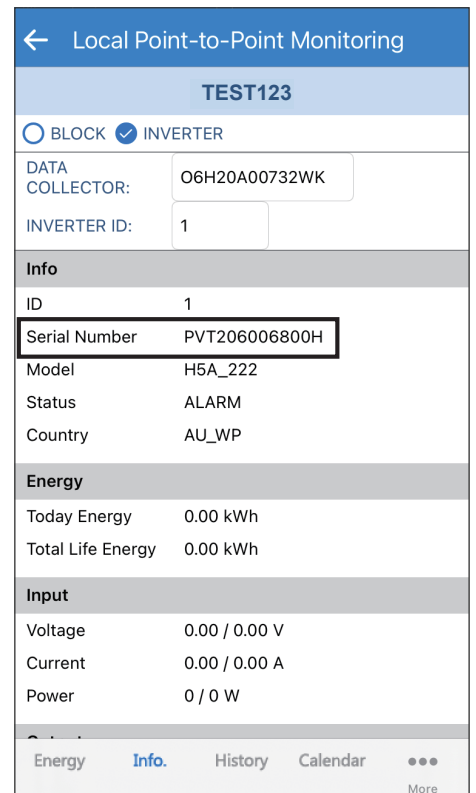
Select the two inverters that are going to swap, then click "START REPLACING INVERTER".



Replacement successful.



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



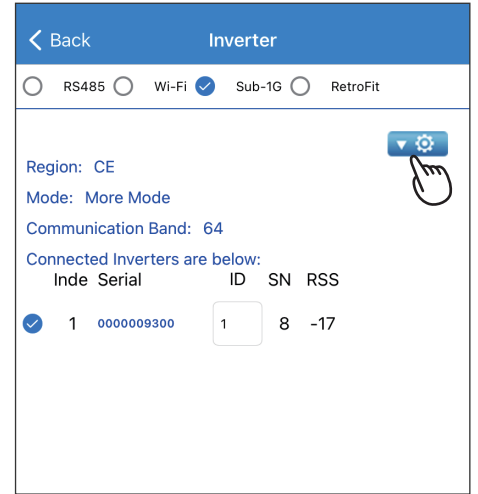
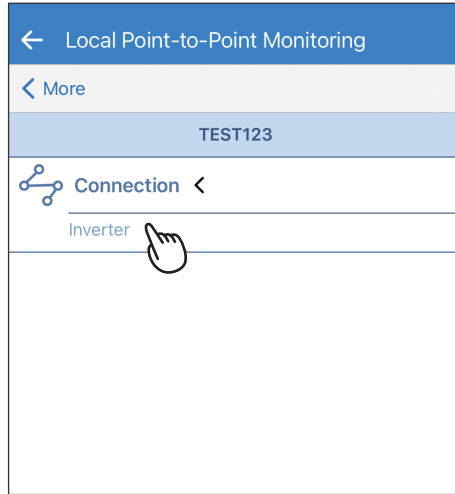
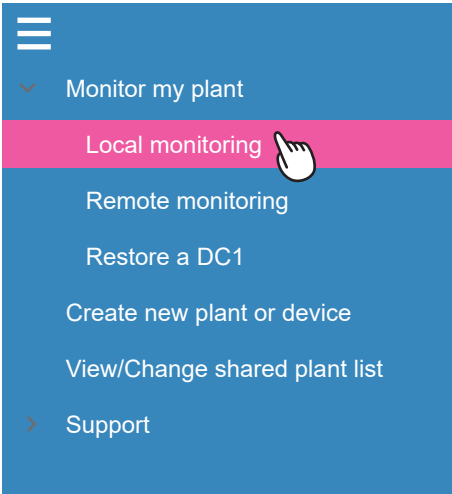
# 6.3. Add inverter

\*This function is only for SUB\_1G communication.

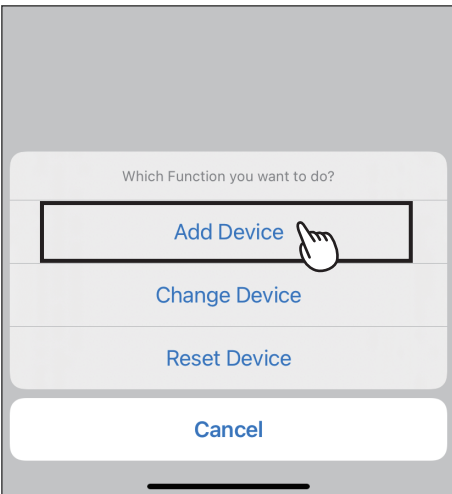
This process is to add an inverter to DC1 with SUB\_1G communication.

LOCAL SETTING -> Connection -> Inverter

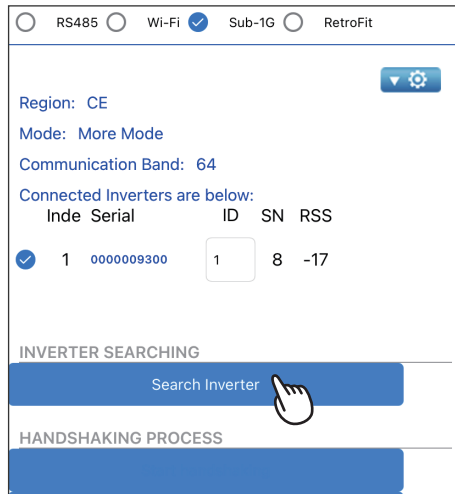
Click the Icon



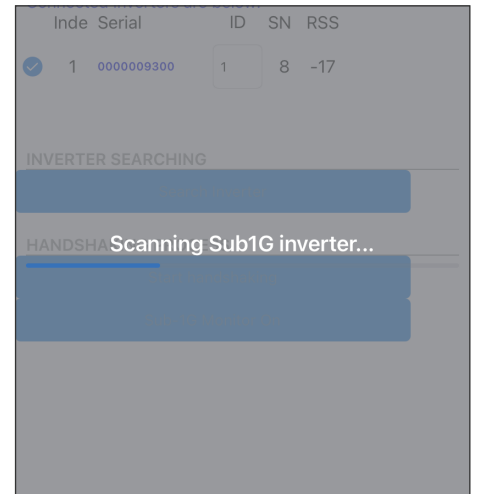
Click "Add Device".



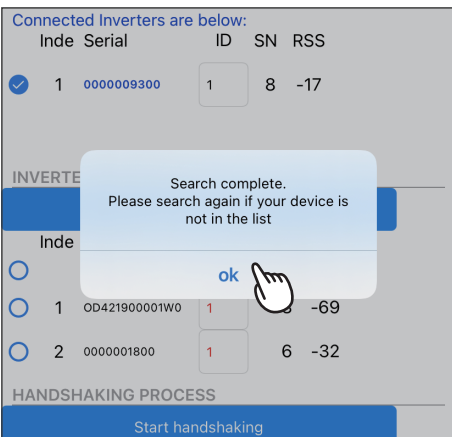
Click "SEARCH INVERTER".



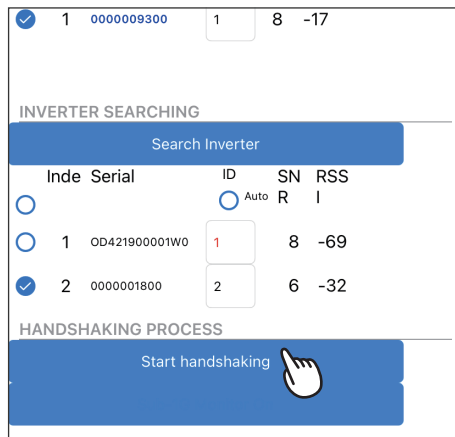
Scanning SUB-1G inverter...



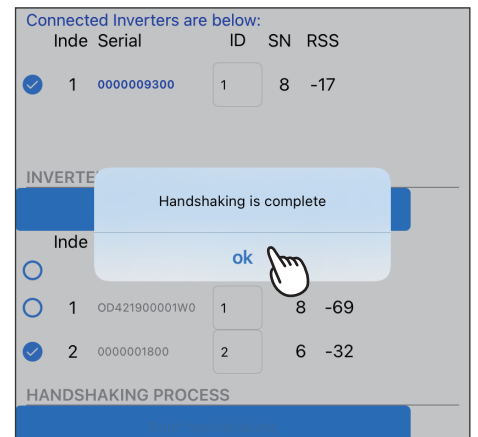
Click "OK".



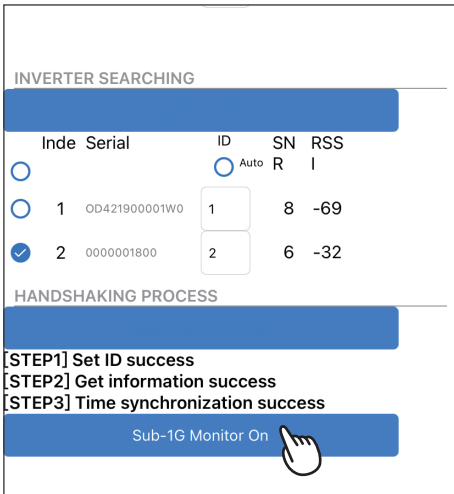
Select the serial number of the inverter that is going to be added to DC1.



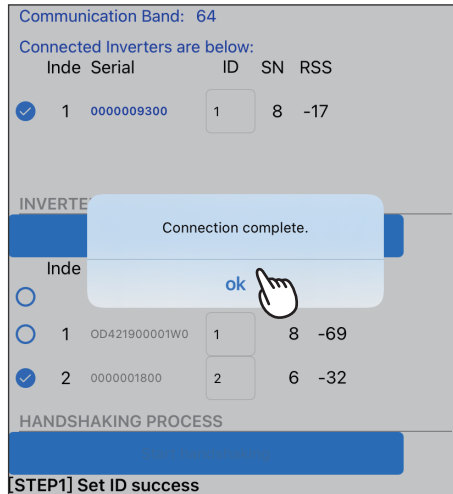
Click "OK".



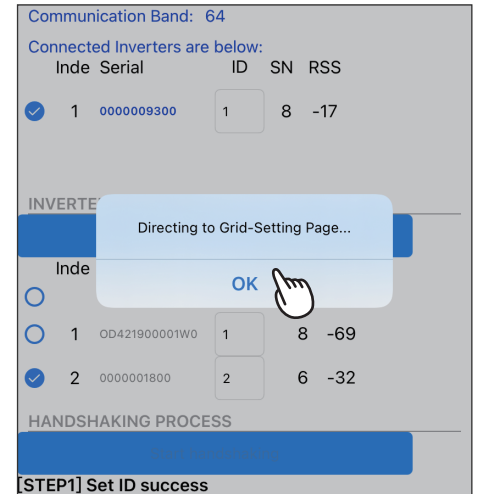
Click "SUB-1G MONITOR ON".



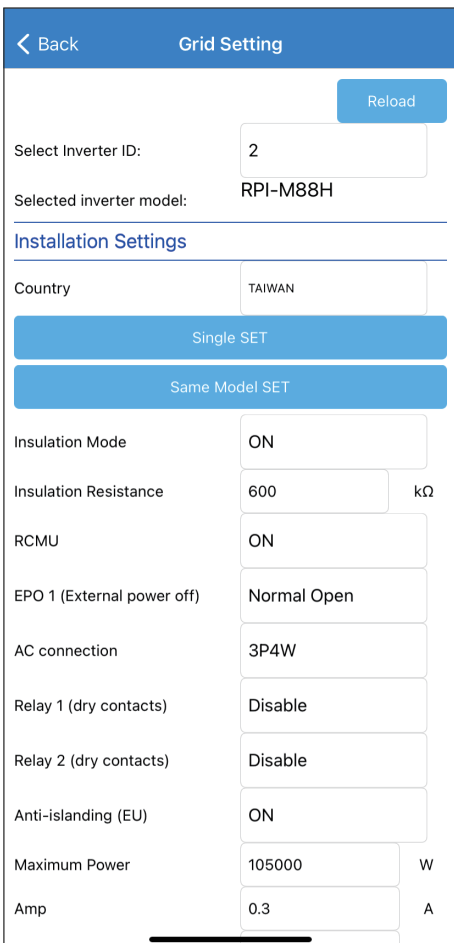
Click "OK".



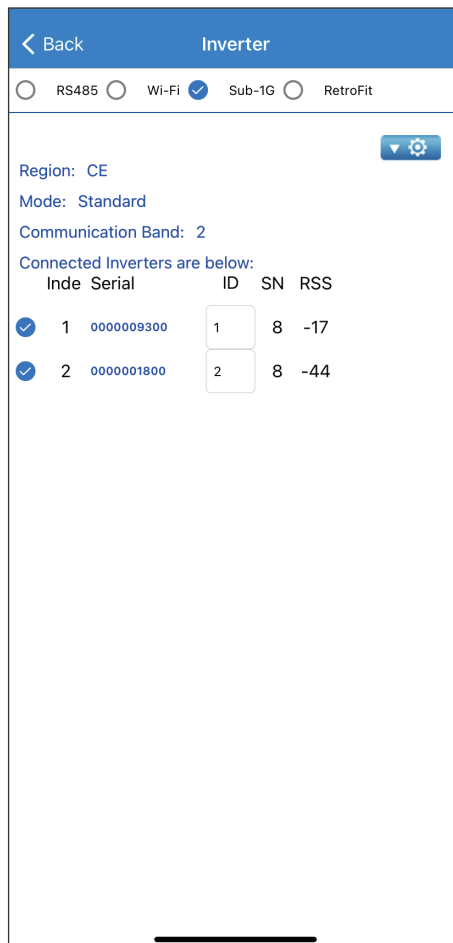
APP will direct to grid setting page.



Confirm and modify the setting value.



Adding inverter process complete.



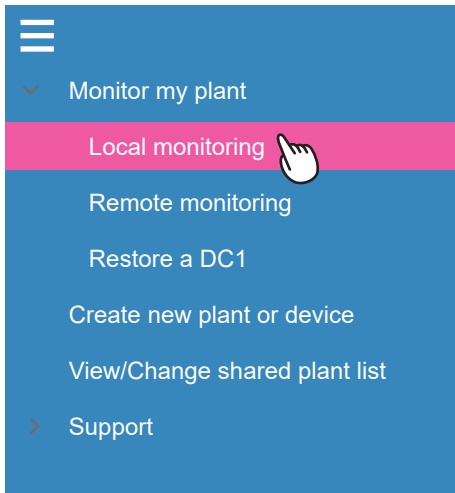
# 6.4. Back up DC1

## ATTENTION

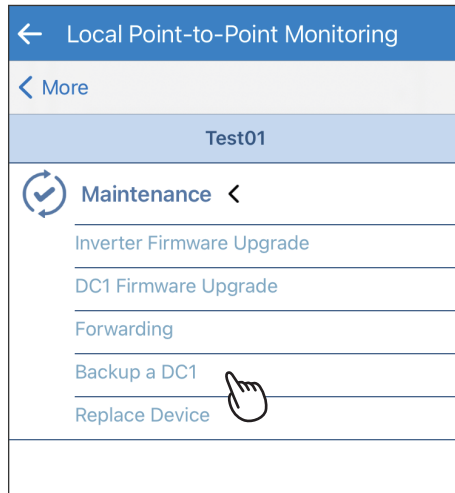


- A USB stick is needed for backup function.
- User can refer to Chapter 4.2.3 for resoring DC1.

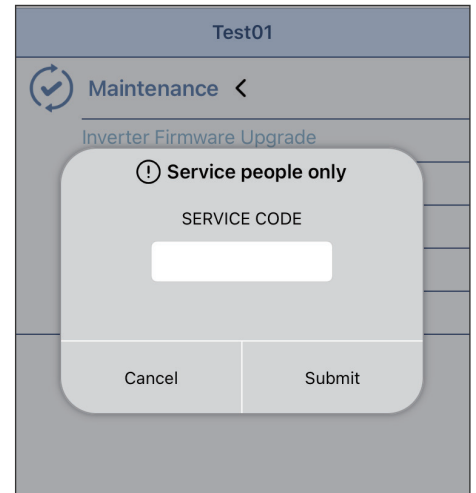
Click Menu-->Local monitoring, then select the plant with the DC1 to be backup.



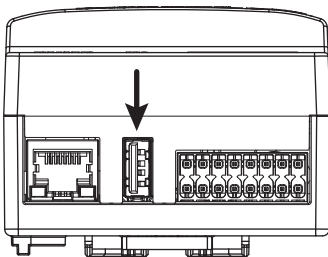
LOCAL SETTING -> Maintenance -> Backup a DC1



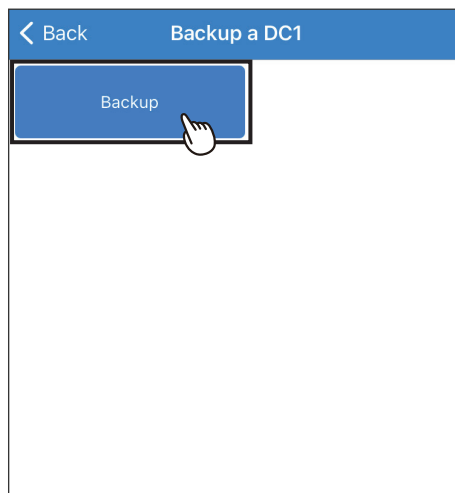
Please contact Delta local service for the password.



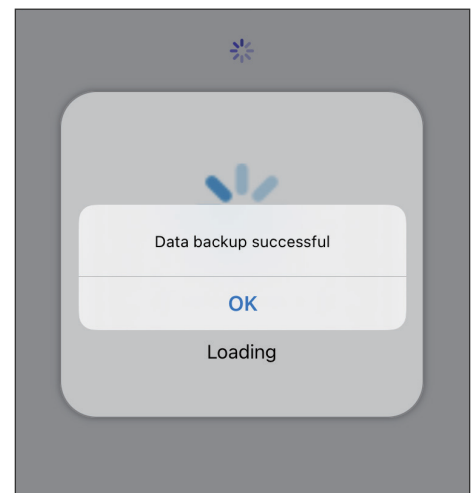
Connect the USB with DC1.



Click "BACKUP"



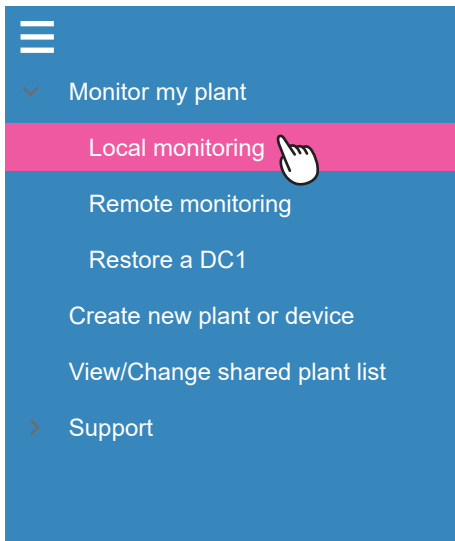
Backup success.



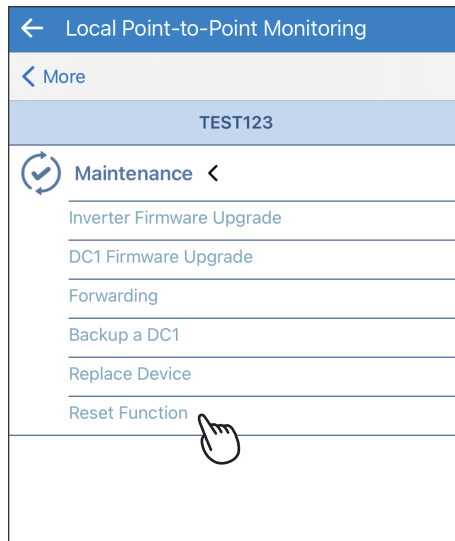
# 6.5. Reset DC1

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

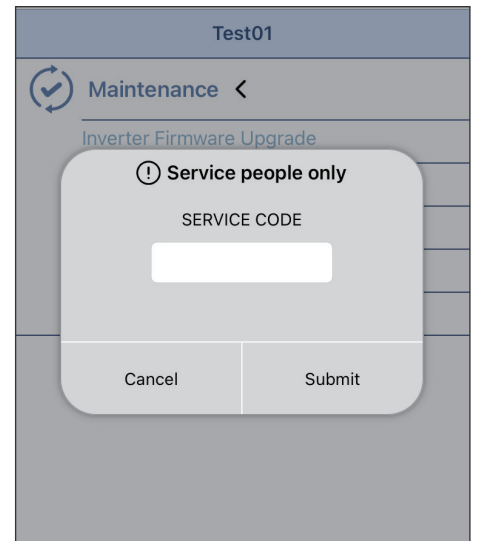
Click Menu-->Local monitoring, then select the plant with the DC1 to be reset.



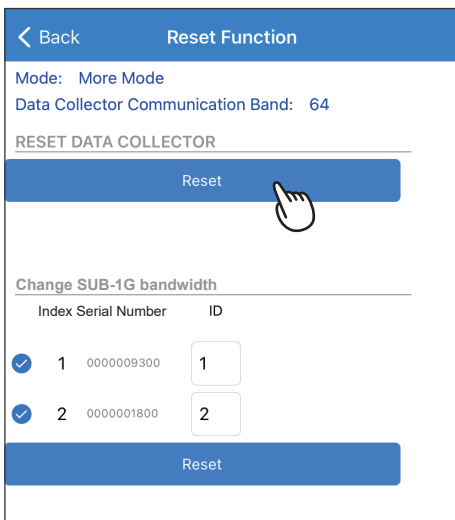
LOCAL SETTING -> Maintenance -> Reset Function



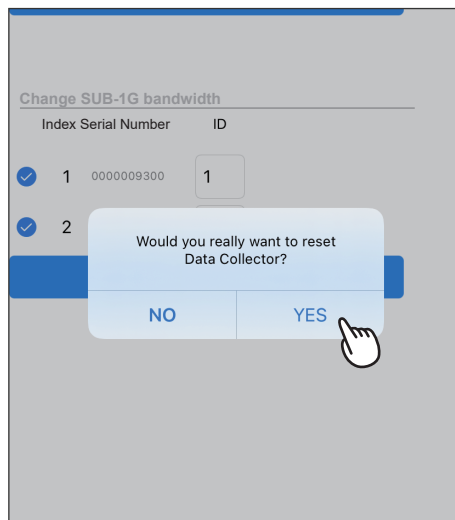
Please contact Delta local service for the password.



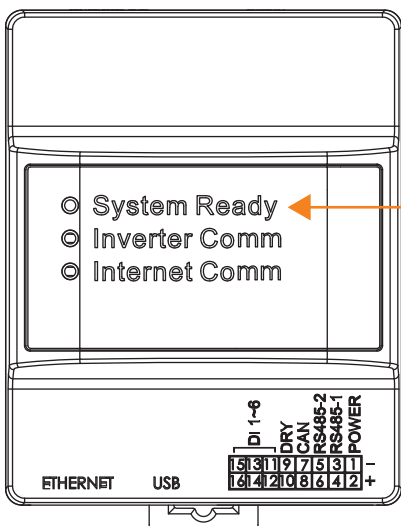
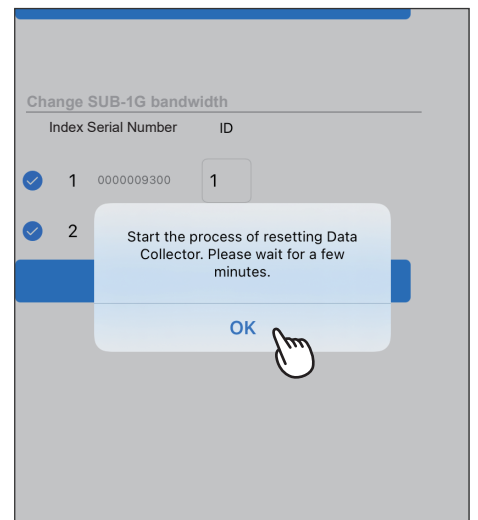
Click "RESET".



Click "YES".



Click "OK".

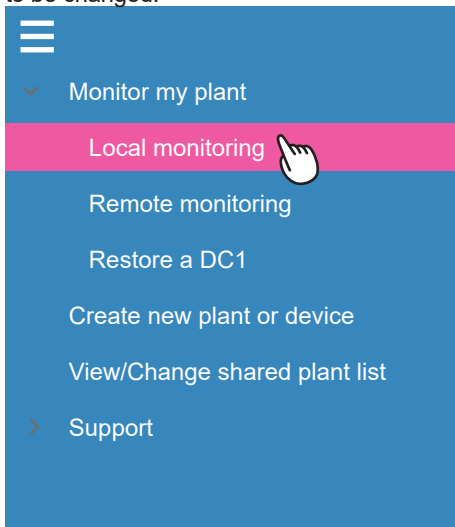


**!** When resetting is done, the LED "System Ready" will turn red and after a while be back to green.

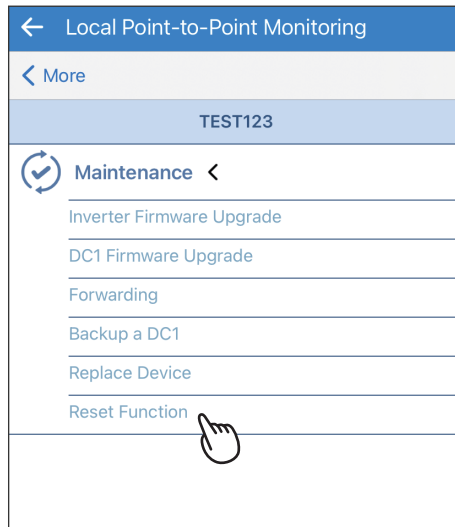
# 6.6. Change SUB-1G bandwidth

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

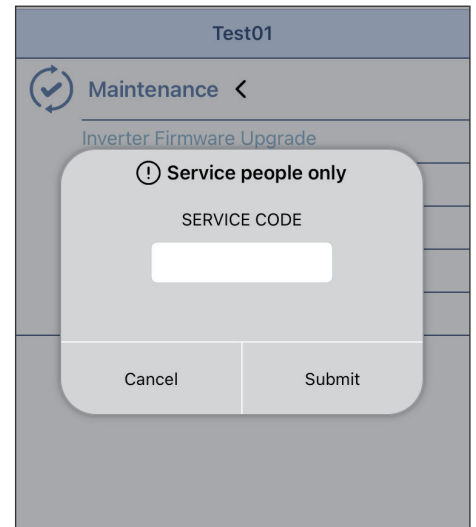
Click Menu-->Local monitoring, then select the plant whose SUB-1G bandwidth needs to be changed.



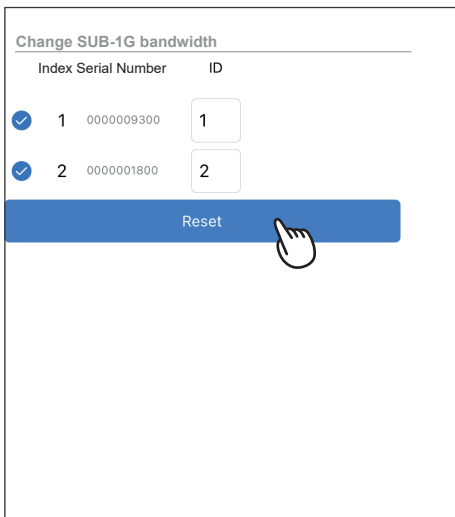
LOCAL SETTING -> Maintenance -> Reset Function



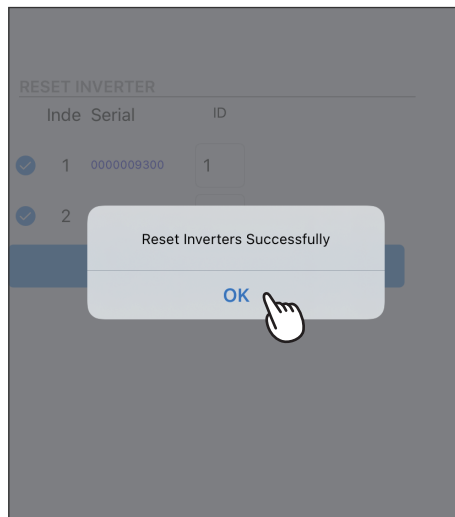
Please contact Delta local service for the password.



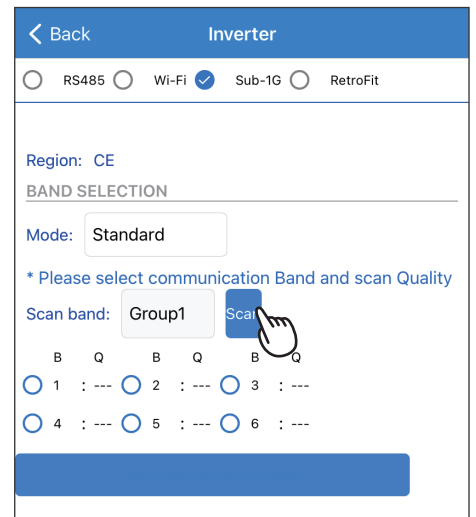
Click "Change"



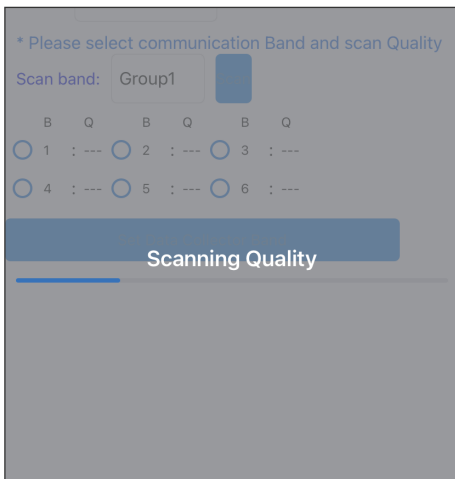
Click "OK".



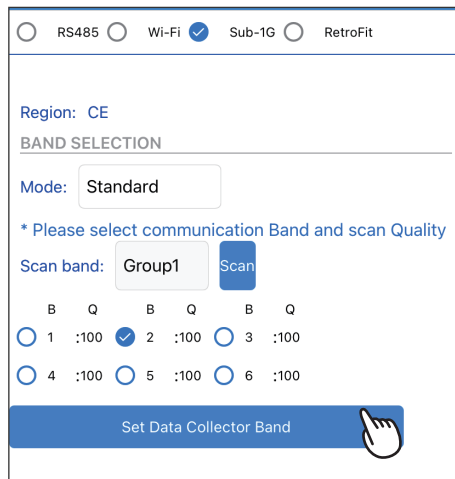
Select Mode and Scan band, click "Scan".



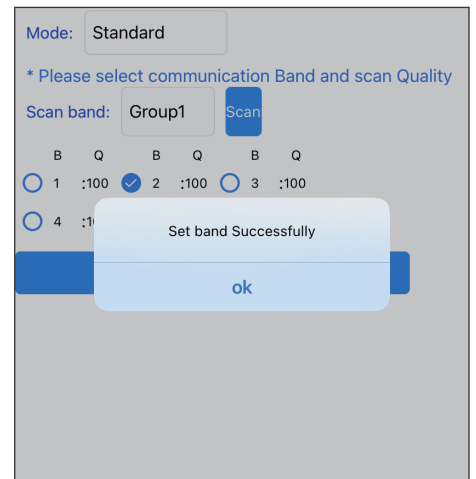
Scanning Quality



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



Set band Successfully.



Click "RECONNECT".

The screenshot shows the 'Inverter' configuration screen. At the top, there are radio buttons for 'RS485', 'Wi-Fi', 'Sub-1G', and 'RetroFit', with 'Wi-Fi' selected. Below this, the 'Region' is set to 'CE'. Under 'BAND SELECTION', the 'Mode' is 'Standard'. A note says '\* Please select communication Band and scan Quality'. The 'Scan band' is 'Group1'. There are six pairs of radio buttons labeled 'B' and 'Q' with numbers 1 through 6. Pair 2 is selected. Below this is a table with columns 'Inde Serial' and 'ID'. Two rows are visible, both checked with a blue circle. The first row has '1' and '0000009300' with '1' in the ID field. The second row has '2' and '0000001800' with '2' in the ID field. At the bottom, a blue 'Reconnect' button is highlighted with a hand cursor.

Click "OK".

This screenshot is identical to the first one, but a grey dialog box is overlaid in the center. The dialog box contains the text 'Data Collector starts monitoring' and a blue 'ok' button. A hand cursor is pointing at the 'ok' button. The background configuration screen is dimmed.

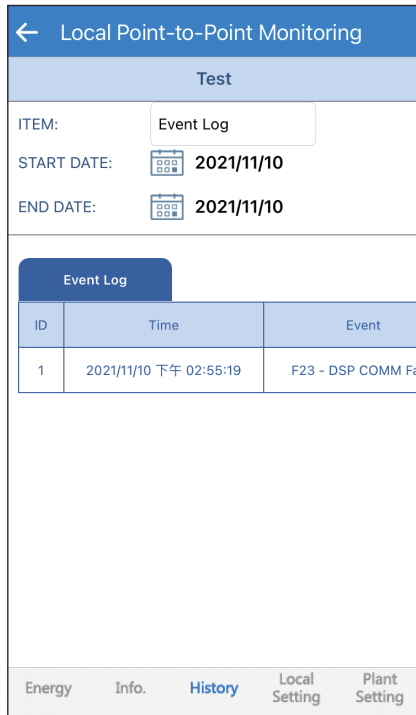
Change finished.

The screenshot shows the 'Inverter' configuration screen after the changes. The 'Reconnect' button is no longer visible. The 'Mode' is 'Standard' and the 'Communication Band' is '2'. Below this, it says 'Connected Inverters are below:'. There is a table with columns 'Inde Serial', 'ID', 'SN', and 'RSS'. Two rows are listed, both checked with a blue circle. The first row has '1', '0000009300', '1', '8', and '-17'. The second row has '2', '0000001800', '2', '8', and '-44'.

# 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 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]

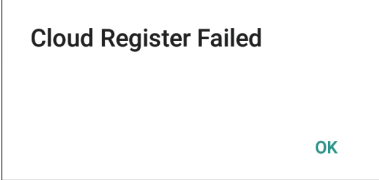
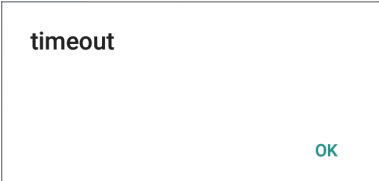
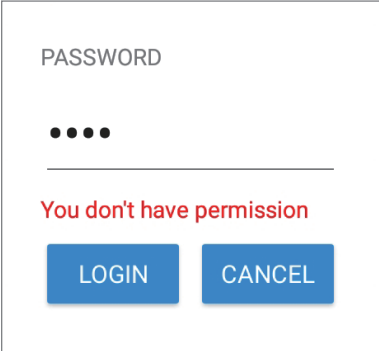
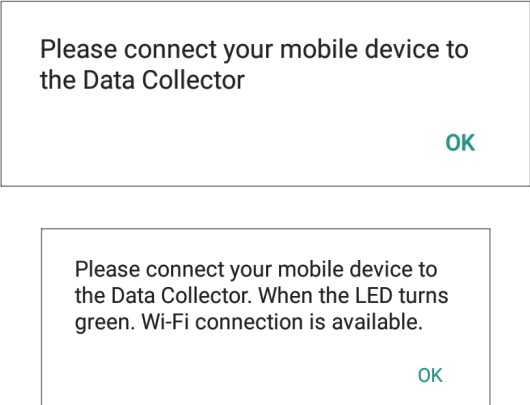
Step	Item
1	Check and record the status of LED indicator. (both inverters and DC1) => Record the status of all the three LED indicators(color and status of blinking)
2	Connect your mobile phone to the DC1. => Check if the DC1 can be connected.
3	Create a WiFi hotspot with your mobile phone to simulate 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"> <li>1. Please confirm whether this DC1 has been registered on the cloud.</li> <li>2. Please confirm if Inverter has been registered on the cloud.</li> <li>3. Please confirm if DC1 has internet connection.</li> <li>4. Please confirm that the user account password is correct.</li> </ol>
	Set wifi inverter time out	<ol style="list-style-type: none"> <li>1. Please confirm the communication quality between DC1 and inverter.</li> <li>2. Please confirm if Inverter has started.</li> <li>3. Please confirm if the smartphone is connected to DC1.</li> </ol>
	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 data-bbox="188 248 569 432" style="border: 1px solid black; padding: 10px;"> <p><b>Search Wi-Fi failed</b></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 data-bbox="154 535 606 689" 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 data-bbox="154 813 606 965" 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 data-bbox="154 1095 606 1281" 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.

