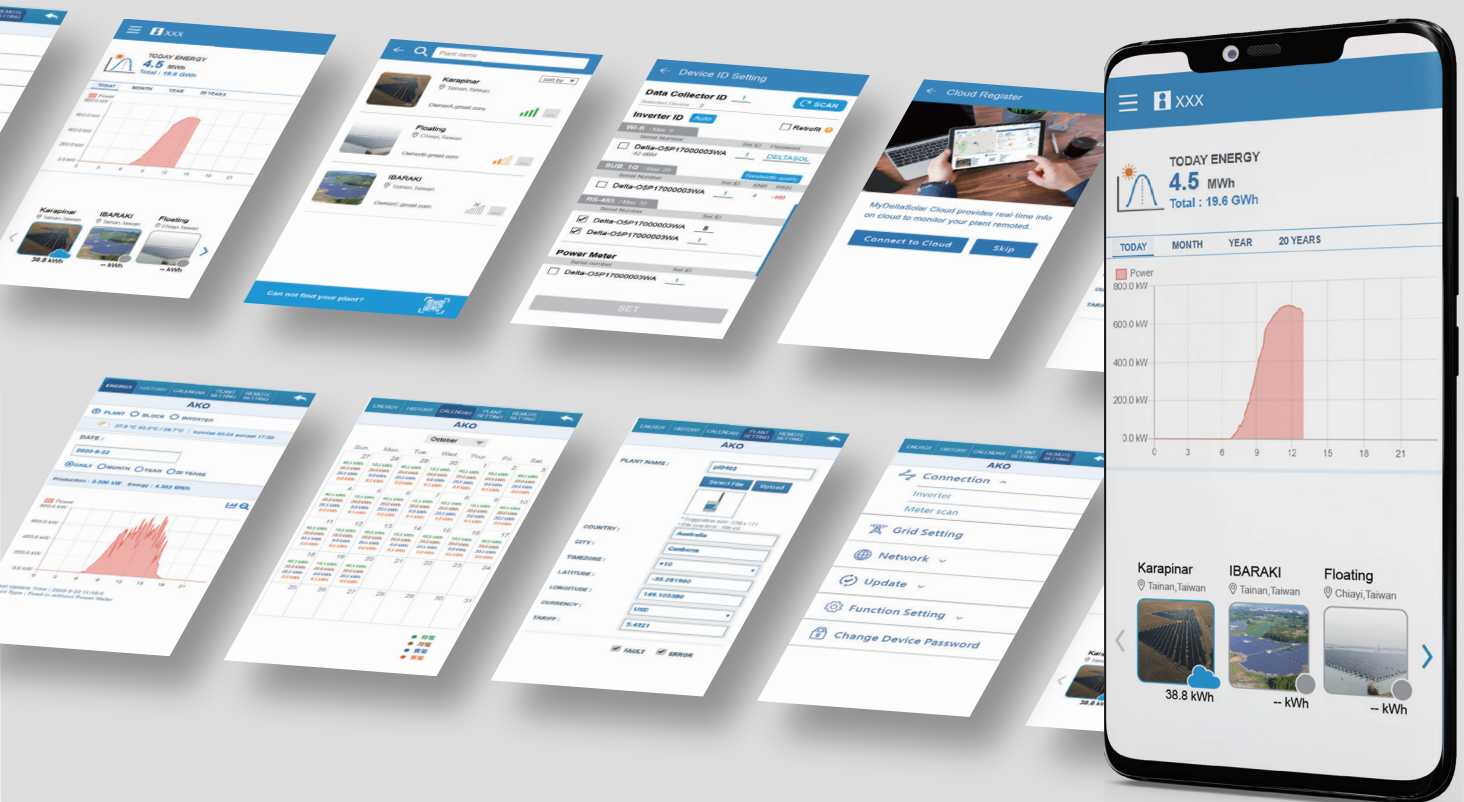


# Android

## DeltaSolar

DELTA ELECTRONICS, INC.



## DeltaSolar Application

### Operation Manual for **Android system**

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# 1.DeltaSolar

## 1.1. Download



### DeltaSolar

1. This APP should collocate with Delta Inverter.
2. If inverter is not connected to cloud, you still can monitor inverter by APP.



QR Code



iOS



Google Play and the Google Play logo are trademarks of Google LLC.

Android

### Where can search for DeltaSolar APP?

- QR Code: Please scan the QR code to DeltaSolar cloud.
- IOS system: Please search "DeltaSolar" in App store.
- Android system: Please search "DeltaSolar" in Google Play.



### About OS version

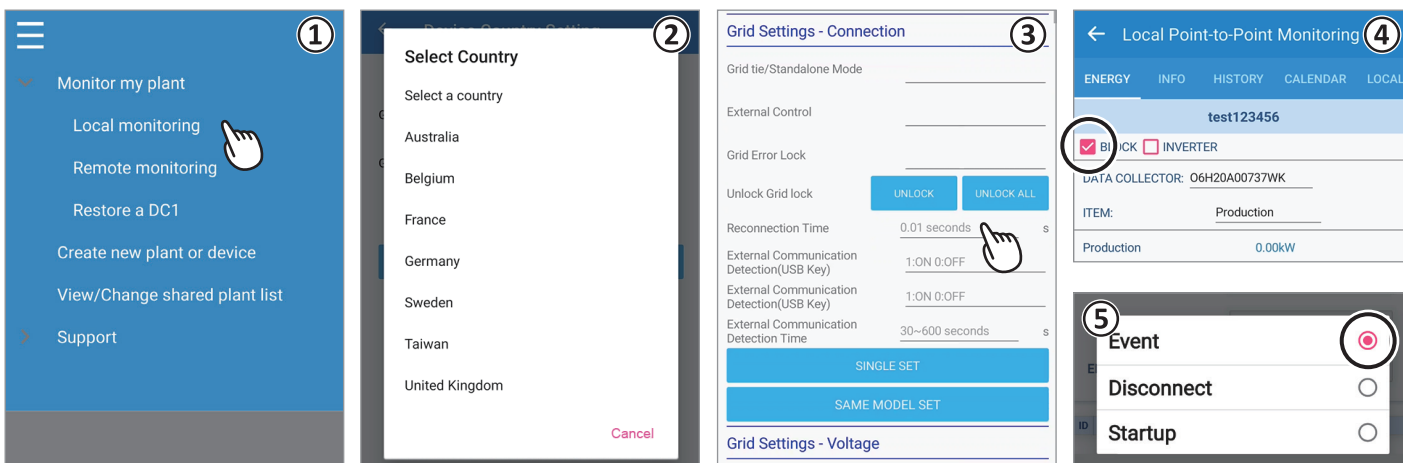
iOS: 8.0 and above  
Android OS: Android 8.0 and above

### ATTENTION



- Please ensure the smart phone is connected to the Internet and the communication is good.
- Before setting up, please registered and sign in once in an internet-connected environment.

## 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 be displayed to enter new character.

(The typing interface depends on the device you are using.)

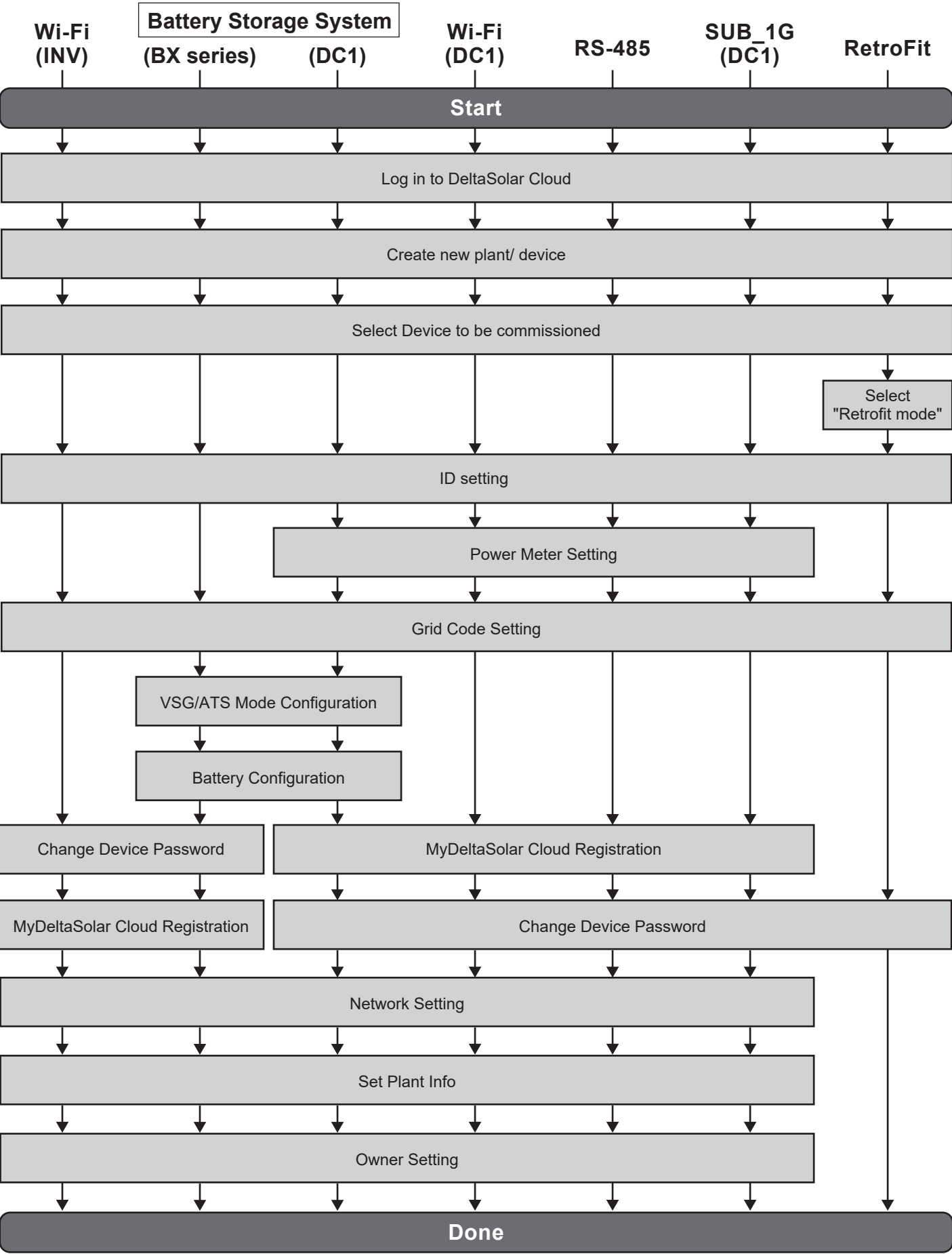
### ④ Check box

Click and marked a "V" (check mark) to select the item is called a check box.

### ⑤ Option button

A screen that changes color when you press a round frame is called a option button.

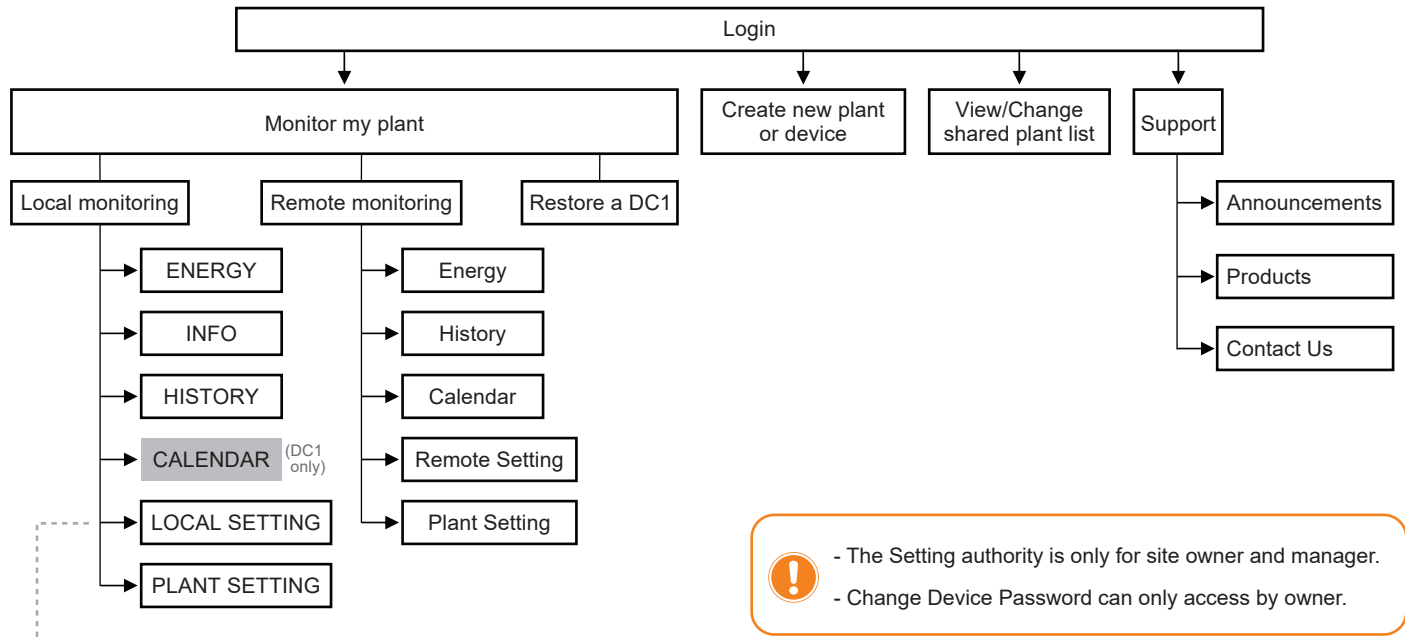
# 1.3. Workflow





# 1.4. List of APP Pages

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



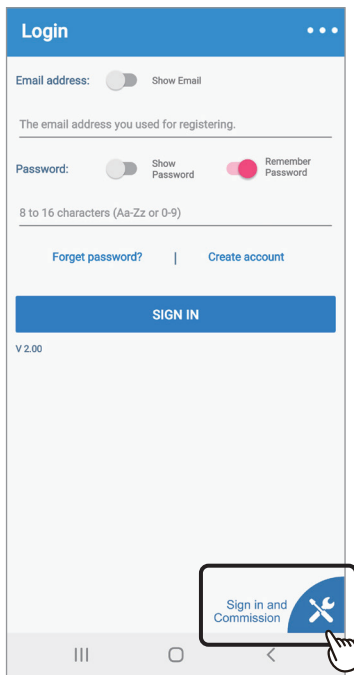
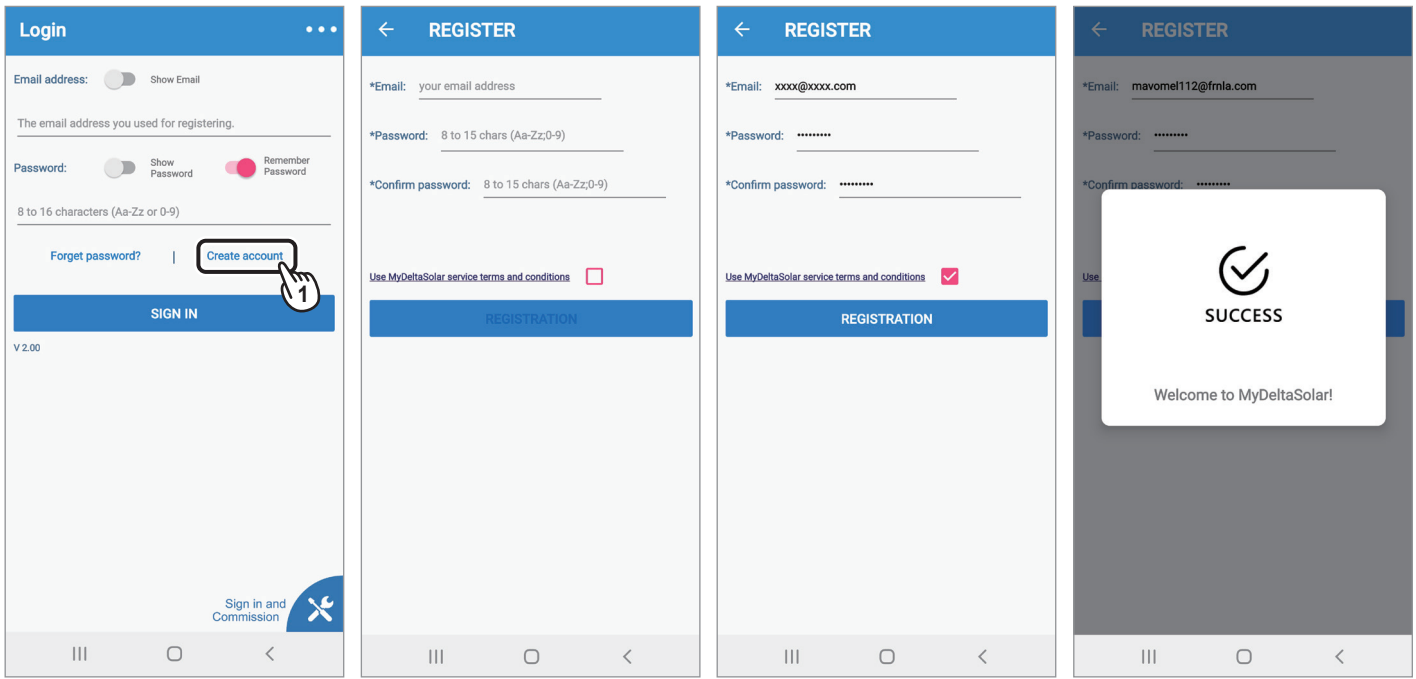
## LOCAL SETTING

| Wi-Fi INV                                                                                                                                                                                                                                                                                         | DC1 (Wi-Fi / RS485 / SUB_1G)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | BX Series                                                                                                                                                                                                                                                                                                                                                                             | Battery Storage System (DC1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>Grid Setting</div> <div>Grid Setting</div> <div>Network</div> <div>Connect to Internet</div> <div>Maintenance</div> <div>Inverter Firmware Upgrade</div> <div>Function Setting</div> <div>DRM0</div> <div>Partial/Zero Export</div> <div>Dry Contact</div> <div>Change Device Password</div> | <div>Connection</div> <div>Inverter</div> <div>Meter</div> <div>Grid Setting</div> <div>Grid Setting</div> <div>Network</div> <div>Network Setting</div> <div>Connect to Internet</div> <div>Time</div> <div>Maintenance</div> <div>Inverter Firmware Upgrade</div> <div>DC1 Firmware Upgrade</div> <div>Forwarding</div> <div>Backup a DC1</div> <div>Replace Device</div> <div>Reset Function</div> <div>Function Setting</div> <div>DRM0</div> <div>Partial/Zero Export</div> <div>Dry Contact</div> <div>Test Mode</div> <div>Phase Interlock</div> <div>IV Curve</div> <div>Change Device Password</div> | <div>Battery Control</div> <div>Battery Control</div> <div>Battery SN/SOH</div> <div>Grid/VSG/ATS Setting</div> <div>Grid Setting</div> <div>VSG/ATS Setting</div> <div>Network</div> <div>Connect to Internet</div> <div>Maintenance</div> <div>Inverter Firmware Upgrade</div> <div>Function Setting</div> <div>DRM0</div> <div>Dry Contact</div> <div>Change Device Password</div> | <div>Hybrid Control</div> <div>Hybrid Control</div> <div>Hybrid System Configuration</div> <div>Connection</div> <div>Inverter</div> <div>Meter</div> <div>Grid/VSG/ATS Setting</div> <div>Grid Setting</div> <div>VSG/ATS Setting</div> <div>Network</div> <div>Network Setting</div> <div>Connect to Internet</div> <div>Time</div> <div>Maintenance</div> <div>Inverter Firmware Upgrade</div> <div>DC1 Firmware Upgrade</div> <div>Forwarding</div> <div>Backup a DC1</div> <div>Replace Device</div> <div>Function Setting</div> <div>DRM0</div> <div>Dry Contact</div> <div>Phase Interlock</div> <div>Change Device Password</div> |

Wi-Fi / RS-485 only  
 SUB-1G only

## 1.5. Create account

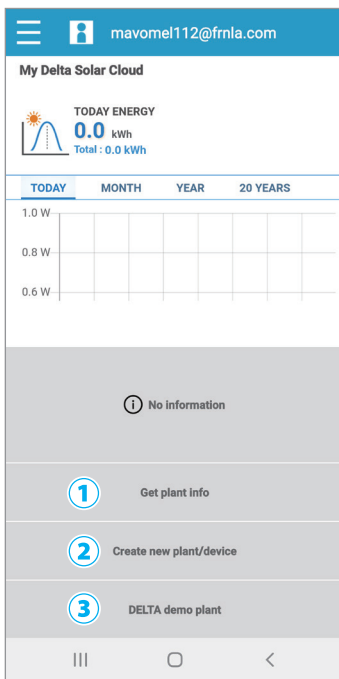
1. Start the APP, click "Create account".
2. Enter the registration page.
3. Fill in the information and click "REGISTRATION". (Check to agree declaration and click "OK" to continue.)
4. Registration success, APP will lead to set internet connection.



### Quick commission icon

The icon shown in the picture provides a shortcut and allows installers to commission.

## 1.6. Home page for new user



At home page, If no plant in the account, there will have three options for user.

\* When there still don't have plant at second time login, APP will still show three options.

### ① Get plant info

User can get plant information shared by other plant owners.

Details authority please refer 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        | ✓                                              | 🔒       | 🔒      |

Plant owners can add your account to the 'share list' and share the plant information with you.

| No. | Name | Email address |
|-----|------|---------------|
| 1   |      |               |
| 2   |      |               |
| 3   |      |               |
| 4   |      |               |

You can also share your plant information with others.

OK

### ② Create new plant/device

Create new plant or add inverter to exist plant, for more detail please refer chapter 2 "Commissioning".

### ③ DELTA demo plant

User can learn interface and APP by demo plant first.

# 2.Commissioning

## 2.1. Data Collector

Select the target device and click “SET”.

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

Please fill-in RS-485 device quantity.



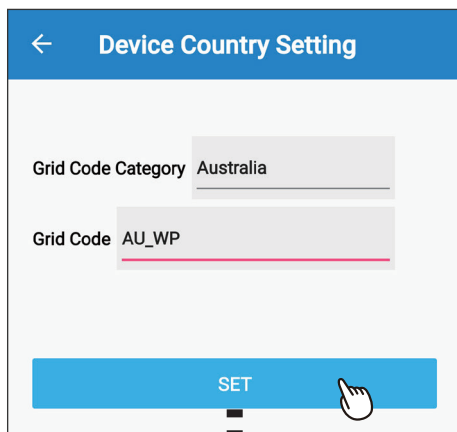
To establish a successful communication between Inverter Wi-Fi to MyDeltaSolar Cloud, in the Wi-Fi connection setup page, the signal strength must be above **-70dBm** between each Wi-Fi device (Wi-Fi router, inverter, DC1...etc.). **In case the signal strength is below -70dbm, it may cause certain communication errors which may prevent a successful Wi-Fi communication.** To avoid such issues, Please adjust the Wi-Fi device position to improve the signal strength/quality.

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

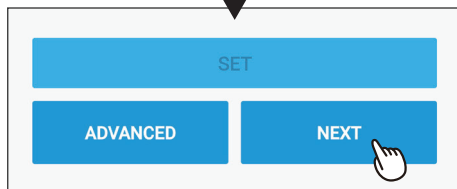
If the site contain power meter, please click "Yes" to proceed, or skip to country setting.

Select the meter device for monitoring.

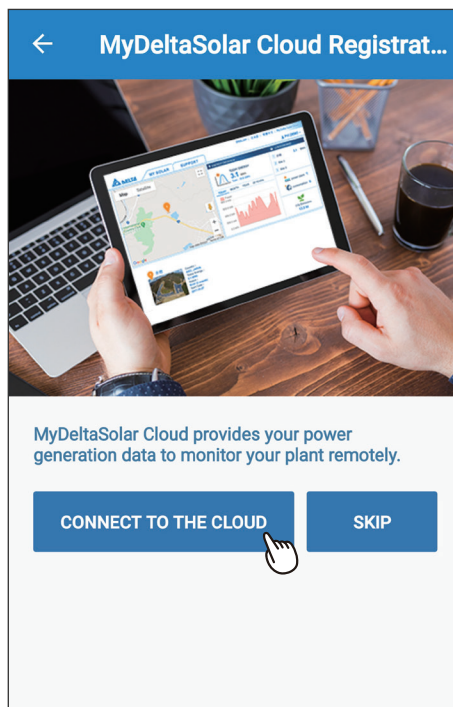
Select grid code and click “SET”.



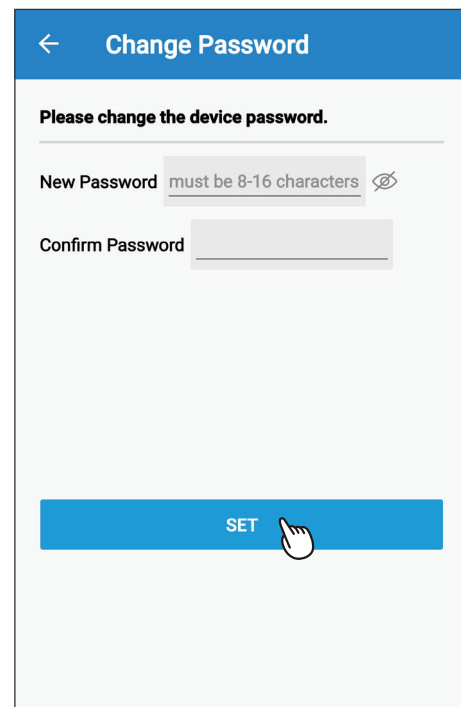
Click “NEXT”



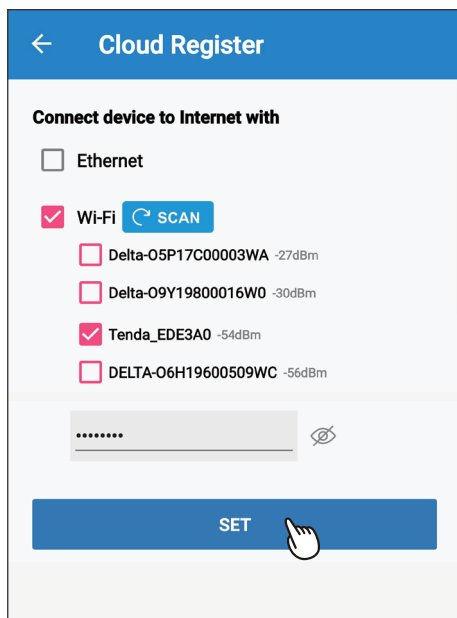
Click “Connect to the Cloud” to use MyDeltaSolar monitoring or click “Skip” to go to “Plant setting”.



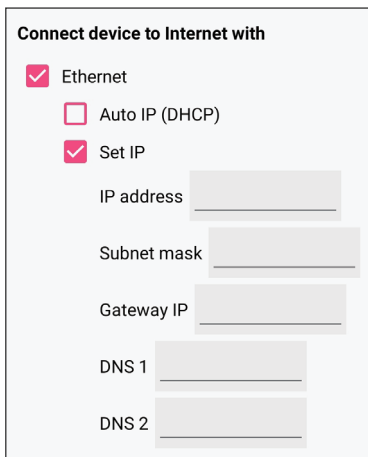
Set a new password to the device and click “SET”.



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 then assign a plant name. Click “Get Location” for the GPS position and click “SET”.

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

←

Plant Setting

☒

New Plant

Plant type

Feed-in with power meter

Plant Name

test1234567

📍

Get location

SET

Owner Setting

You are current the manager, you may assign the plant owner now or later.

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

☐

Assign to

Email address

☐

I am owner.

☐

Do it later.

SET

MyDeltaSolar users for managing and monitoring purpose.

☐

Assign to

Email address

✓

SUCCESS

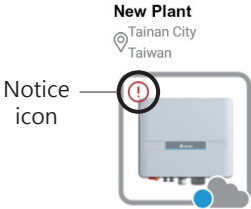
test1234567

has been connected on MyDeltaSolar Cloud



About owner setting...

- The APP authority of site installer will default as manager, the installer can set himself as owner in commission process.
- If the account has not registered to Delta cloud, there will be an email notice and invite the account to register Delta cloud.
- During no Internet environment, the setting information will be stored in APP and transmit to cloud when Internet ability available.
- After commission, the cloud system will send site information(with device password) and transfer success mail to owner account.
- When not owner has been set during the commission process, there will be a pop up notice every time when select the plant until owner has been set.



## 2.2. Wi-Fi Inverter

Select the target device and click “SET”.

← Search Device

☐ DELTA-O6H20300119WH -63dBm [Not On Cloud]

☐ DELTA-O6H20A00731WK -69dBm [Not On Cloud]

**Inverter**

☒ Delta-O9Y19800016W0 -37dBm [Not On Cloud]

☐ Delta-O9Y19700007W0-1 -39dBm [On Cloud]

☐ Delta-O5Q18500961W0 -44dBm [Not On Cloud]

☐ Delta-PVT197030780E -66dBm [Not On Cloud]

☐ Delta-PVT206006790H -67dBm [Not On Cloud]

SET

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

← Device ID Setting

**Inverter ID** Auto

| Serial number              | Set ID |
|----------------------------|--------|
| Delta-O9Y19800016W0 -36dBm | 1      |

SET

Select grid code and click “SET”.

← Device Country Setting

Grid Code Category Australia

Grid Code AU\_WP

SET

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



To establish a successful communication between Inverter Wi-Fi to MyDeltaSolar Cloud, in the Wi-Fi connection setup page, the signal strength must be above **-70dBm** between each Wi-Fi device (Wi-Fi router, inverter, DC1...etc.). **In case the signal strength is below -70dbm, it may cause certain communication errors which may prevent a successful Wi-Fi communication.** To avoid such issues, Please adjust the Wi-Fi device position to improve the signal strength/quality.

Click “NEXT”.

← Device Country Setting

Success

Grid Code Category Australia

Grid Code AU\_WP

SET

ADVANCED NEXT

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

← Change Password

Please change the device password.

New Password must be 8-16 characters

Confirm Password

SET

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

← MyDeltaSolar Cloud Registrat...

MyDeltaSolar Cloud provides your power generation data to monitor your plant remotely.

CONNECT TO THE CLOUD SKIP

Select the network interface and click "SET".

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

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

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

### ! About owner setting...

- The APP authority of site installer will default as manager, the installer can set himself as owner in commission process.
- If the account has not registered to Delta cloud, there will be an email notice and invite the account to register Delta cloud
- During no Internet environment, the setting information will be stored in APP and transmit to cloud when Internet ability available.
- After commission, the cloud system will send site information(with device password) and transfer success mail to owner account.
- When not owner has been set during the commission process, there will be a pop up notice every time when select the plant until 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 require to update DC1 first, click "Yes" App will start FW update for DC1.

Please fill-in RS-485 device quantity.



To establish a successful communication between Inverter Wi-Fi to MyDeltaSolar Cloud, in the Wi-Fi connection setup page, the signal strength must be above **-70dBm** between each Wi-Fi device (Wi-Fi router, inverter, DC1...etc.). **In case the signal strength is below -70dbm, it may cause certain communication errors which may prevent a successful Wi-Fi communication.** To avoid such issues, Please adjust the Wi-Fi device position to improve the signal strength/quality.

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



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

Select Power Meter.

Select grid code and click "SET".

Click "NEXT".

Select VSG Function and Backup Power Type.

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

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

Click "Connect to the Cloud" to use MyDeltaSolar monitoring 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 then assign a plant name. Click “Get Location” for the GPS position and click “SET”.

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

←

Plant Setting

✓

New Plant

Plant type

Battery storage with power mete

Plant Name

test

Get location

SET

Owner Setting

You are current the manager, you may assign the plant owner now or later.

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

☐ Assign to

Email address

☐ I am owner.

☐ Do it later.

SET

MyDeltaSolar users for managing and monitoring purpose.

☐ Assign to

Email address

✓

SUCCESS

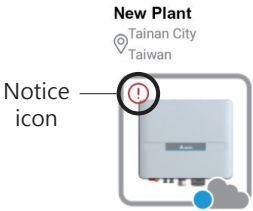
test

has been connected on MyDeltaSolar Cloud



About owner setting...

- The APP authority of site installer will default as manager, the installer can set himself as owner in commission process.
- If the account has not registered to Delta cloud, there will be an email notice and invite the account to register Delta cloud.
- During no Internet environment, the setting information will be stored in APP and transmit to cloud when Internet ability available.
- After commission, the cloud system will send site information(with device password) and transfer success mail to owner account.
- When not owner has been set during the commission process, there will be a pop up notice every time when select the plant until owner has been set.



## 2.4. Battery Storage System (BX series)

Select the target device and click "SET".

← Search Device

☐ DELTA-06H20300119WH -63dBm [Not On Cloud]

☐ DELTA-06H20A00731WK -69dBm [Not On Cloud]

**Inverter**

☒ Delta-09Y19800016W0 -37dBm [Not On Cloud]

☐ Delta-09Y19700007W0-1 -39dBm [On Cloud]

SET

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

← Device ID Setting

**Inverter ID** Auto

Serial number Set ID

Delta-09Y19800016W0 1

SET

Click Auto button, the APP will arrange the device ID automatically.

Select grid code and click "SET".

← Device Country Setting

Grid Code Category Australia

Grid Code AU\_WP

SET

Click "NEXT".

SET

ADVANCED NEXT



To establish a successful communication between Inverter Wi-Fi to MyDeltaSolar Cloud, in the Wi-Fi connection setup page, the signal strength must be above **-70dBm** between each Wi-Fi device (Wi-Fi router, inverter, DC1...etc.). **In case the signal strength is below -70dbm, it may cause certain communication errors which may prevent a successful Wi-Fi communication.** To avoid such issues, Please adjust the Wi-Fi device position to improve the signal strength/quality.

Select VSG Function and Backup Power Type.

← VSG/ATS Setting

Inverter ID: 1

VSG Function: OFF OFF ON

Backup Power Type: Internal ATS

SAVE

MULTIPLE SET

Click "NEXT".

SAVE

MULTIPLE SET

NEXT

Select Battery type and SOH checking day.

\* The BX series need to check entire SOH at least once/year.

← Battery SN/SOH

ID:1 09H19A00003W0

Battery Type: ☒ BX6.3\_AC ☐ BX12.6\_AC

Time Schedule for SOH-Cycle(DD/MM): 8 / 6

SAVE

\* 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.

← Battery SN/SOH

ID:2 09H19A00003W0

Battery Type: ☐ BX6.3\_AC ☒ BX12.6\_AC

SN: OAN1234567899

Time Schedule for SOH-Cycle(DD/MM): 8 / 6

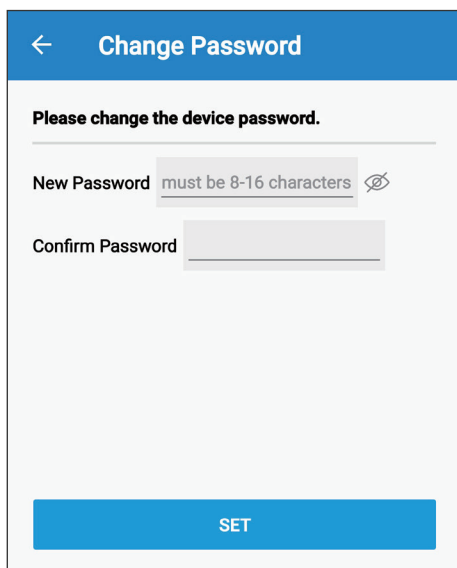
Last Update Time: ---

Next Update Time: 2022/06/08 00:00:00

SAVE

\* 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".



← **Change Password**

Please change the device password.

New Password must be 8-16 characters

Confirm Password

**SET**

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



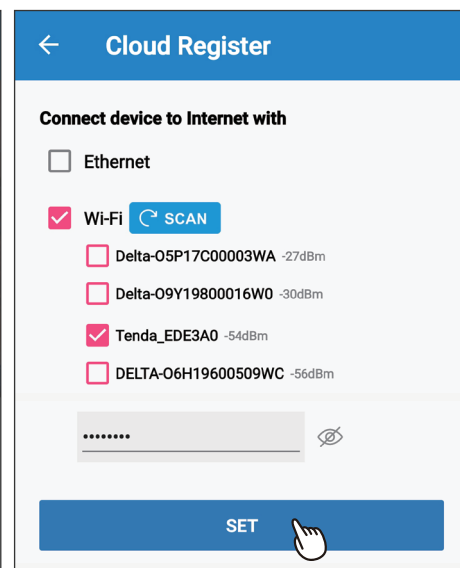
← **MyDeltaSolar Cloud Registrat...**



MyDeltaSolar Cloud provides your power generation data to monitor your plant remotely.

**CONNECT TO THE CLOUD** **SKIP**

Select the network interface and click "SET".



← **Cloud Register**

Connect device to Internet with

☐ Ethernet

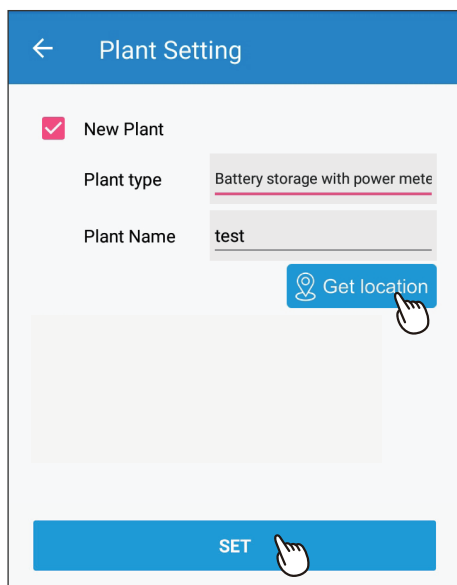
☒ Wi-Fi **SCAN**

- ☐ Delta-05P17C00003WA -27dBm
- ☐ Delta-09Y19800016W0 -30dBm
- ☒ Tenda\_EDE3A0 -54dBm
- ☐ DELTA-06H19600509WC -56dBm

.....

**SET**

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



← **Plant Setting**

☒ New Plant

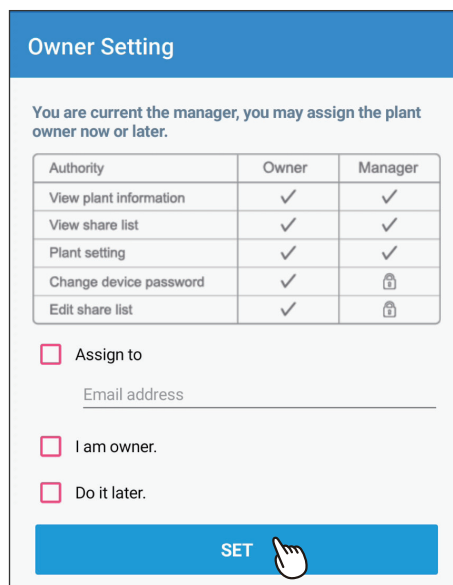
Plant type Battery storage with power mete

Plant Name test

**Get location**

**SET**

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



**Owner Setting**

You are current the manager, you may assign the plant owner now or later.

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

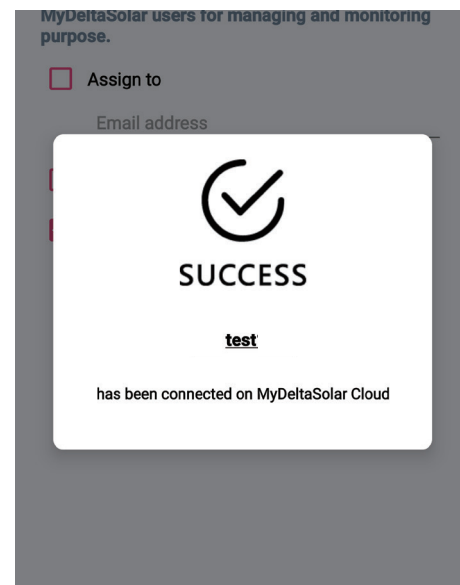
☐ Assign to

Email address

☐ I am owner.

☐ Do it later.

**SET**



MyDeltaSolar users for managing and monitoring purpose.

☐ Assign to

Email address

**SUCCESS**

**test**

has been connected on MyDeltaSolar Cloud



### About owner setting...

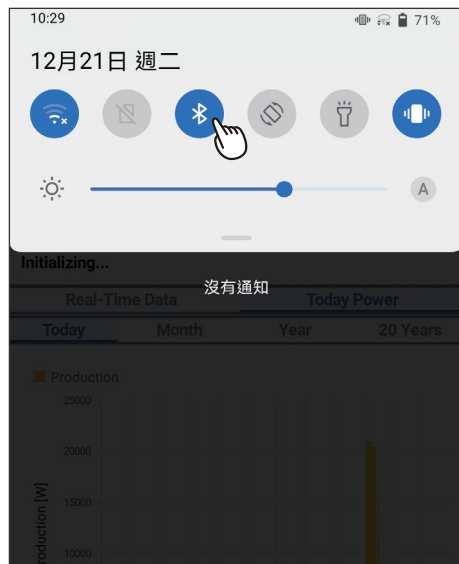
- The APP authority of site installer will default as manager, the installer can set himself as owner in commission process.
- If the account has not registered to Delta cloud, there will be an email notice and invite the account to register Delta cloud.
- During no Internet environment, the setting information will be stored in APP and transmit to cloud when Internet ability available.
- After commission, the cloud system will send site information(with device password) and transfer success mail to owner account.
- When not owner has been set during the commission process, there will be a pop up notice every time when select the plant until owner has been set.



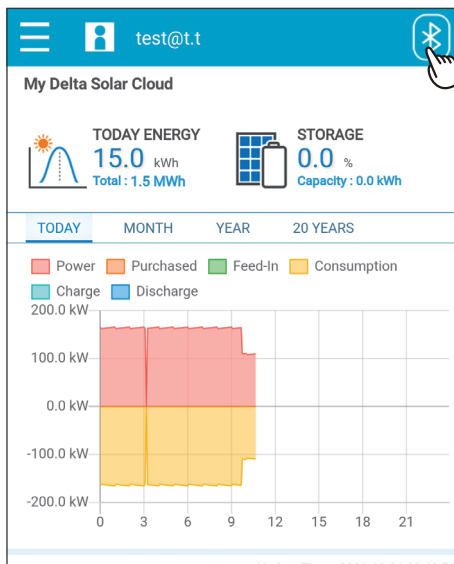
# 3. Bluetooth

## 3.1. Connection

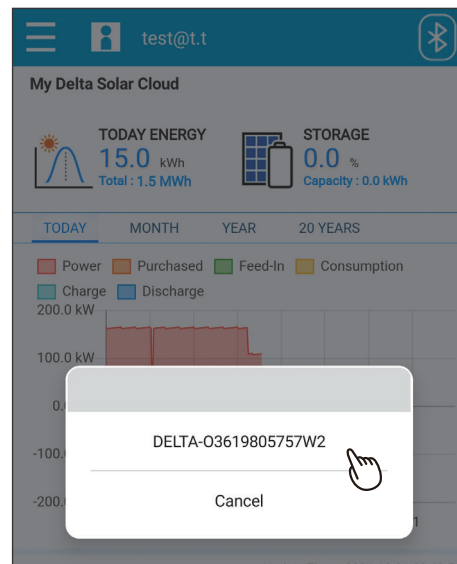
Swipe down from the top of the screen and tap Bluetooth icon.



Click  on the home page.



Select the serial number of the device.



## 3.2. Bluetooth menu

There are 3 tabs for Bluetooth menu.

| [INFO]                         |                      |
|--------------------------------|----------------------|
| Bluetooth menu                 |                      |
| INFO   HISTORY   LOCAL SETTING |                      |
| Info                           |                      |
| ID                             | 1                    |
| Serial Number                  | O3619805757W2        |
| Model                          | RPI-M88H             |
| Status                         | NO DC                |
| Country                        | TAIWAN               |
| Energy                         |                      |
| Today Energy                   | 0.00 kWh             |
| Total Life Energy              | 888880.00 kWh        |
| Input                          |                      |
| Voltage                        | 0.00 / 0.00 V        |
| Current                        | 0.00 / 0.00 A        |
| Power                          | 0 / 0 W              |
| Output                         |                      |
| Voltage                        | 0.00 / 0.00 / 0.00 V |
| Current                        | 0.00 / 0.00 / 0.00 A |
| Power                          | 0 / 0 / 0 W          |

| [HISTORY]                      |                                                                                                |
|--------------------------------|------------------------------------------------------------------------------------------------|
| Bluetooth menu                 |                                                                                                |
| INFO   HISTORY   LOCAL SETTING |                                                                                                |
| ITEM:                          | Event Log                                                                                      |
| START DATE:                    |  2021/12/21 |
| END DATE:                      |  2021/12/21 |
| Event Log                      |                                                                                                |
| ID                             | 7                                                                                              |
| Time                           | 2021/12/13 上午 12:00:00                                                                         |
| Event                          | E09 - No Grid                                                                                  |

| [LOCAL SETTING]            |              |
|----------------------------|--------------|
| Grid Setting               |              |
| Select Inverter ID:        | 1            |
| Selected inverter model:   | RPI-M88H     |
| Inverter ID                |              |
| Inverter ID                | 1            |
| INVERTER ID SET            |              |
| Installation Settings      |              |
| Country                    | TAIWAN       |
| SET                        |              |
| SAME MODEL SET             |              |
| Insulation Mode            | ON           |
| Insulation Resistance      | 150 kΩ       |
| RCMU                       | ON           |
| EPO 1 (External power off) | Normal Close |



# 4. Description of the page display

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



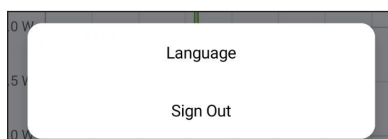
There are some slight differences between ios and Android's APP screen layout.  
This manual uses the Android system APP screen representative to explain.

## 4.1. Home Page



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

② USER menu  
Change language, Sign out.



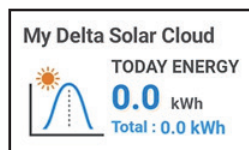
### ③ Power generation

Show today's power generation and total power generation.

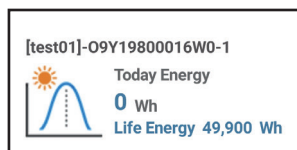
At remote monitoring: will shown the power generation for all plant.

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

#### [Remote mode]



#### [Local mode]

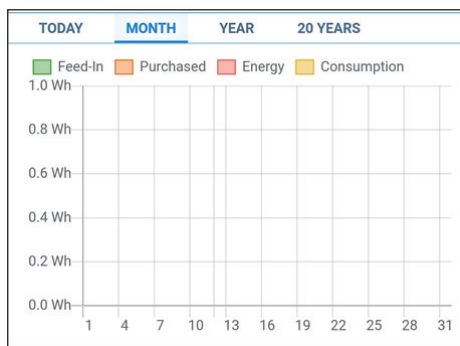


### ④ Battery capacity

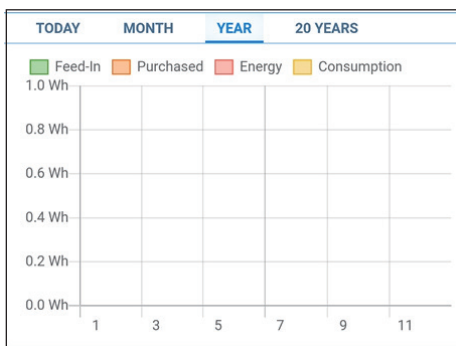
If the site contain a storage system, this icon will shows up to indicate the battery capacity.

### ⑤ Power generation map

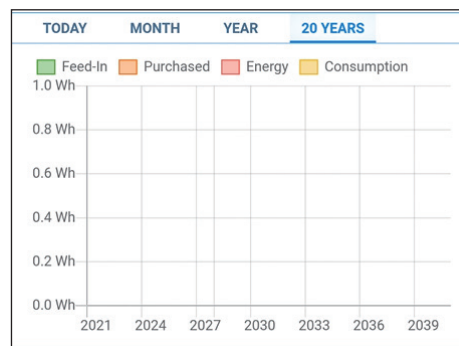
Display different power generation maps according to the selected time interval.



[MONTH]



[YEAR]



[20 YEARS]

### ⑥ Set up the Plant

Display the name of each plant and the amount of 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

### ⑦ Bluetooth

Connect the device through Bluetooth, see the section "Bluetooth" for detail.



## 4.2. Monitor my plant

User can view plant information or do the setting by enter "Monitoring my plant".

There are three options :

"Local monitoring"

"Remote monitoring"

"Restore a DC1"

### Local monitoring :

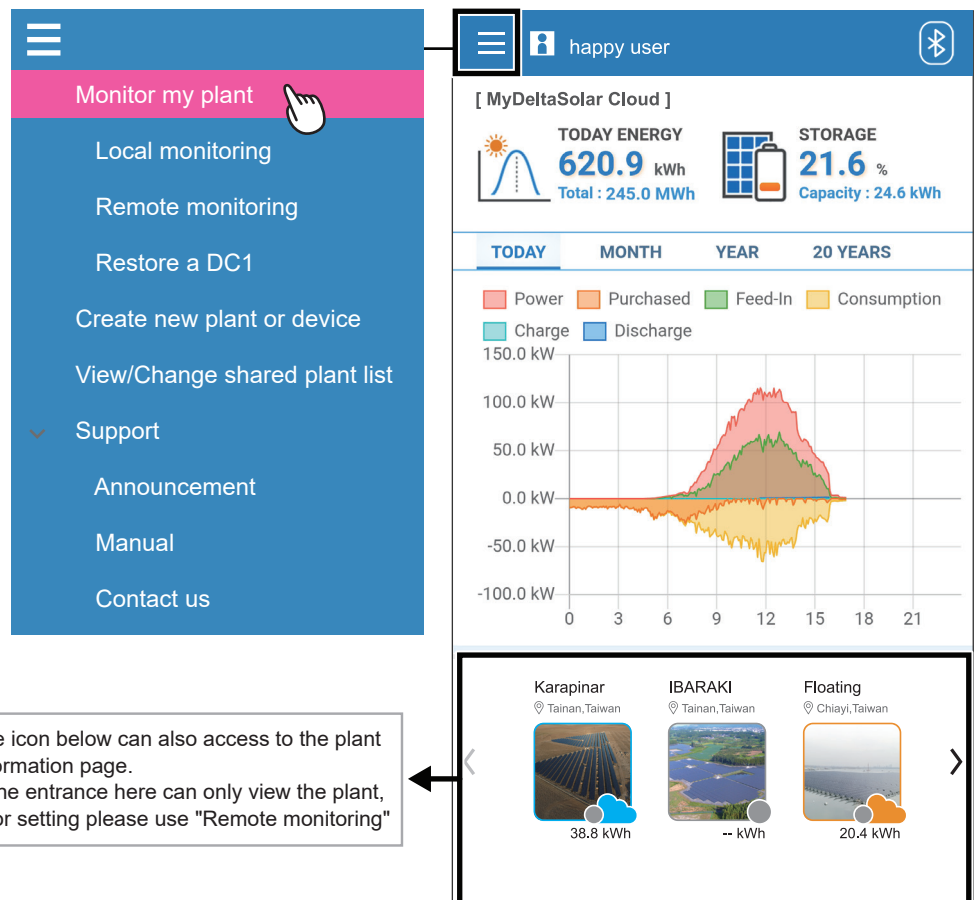
Use WiFi point to point connection to device near by and check the information.

### Remote monitoring :

check information from Delta solar cloud.

### Restore DC1 :

User can use this function to for DC1 replacement.



The icon below can also access to the plant information page.  
\* The entrance here can only view the plant, for setting please use "Remote monitoring"

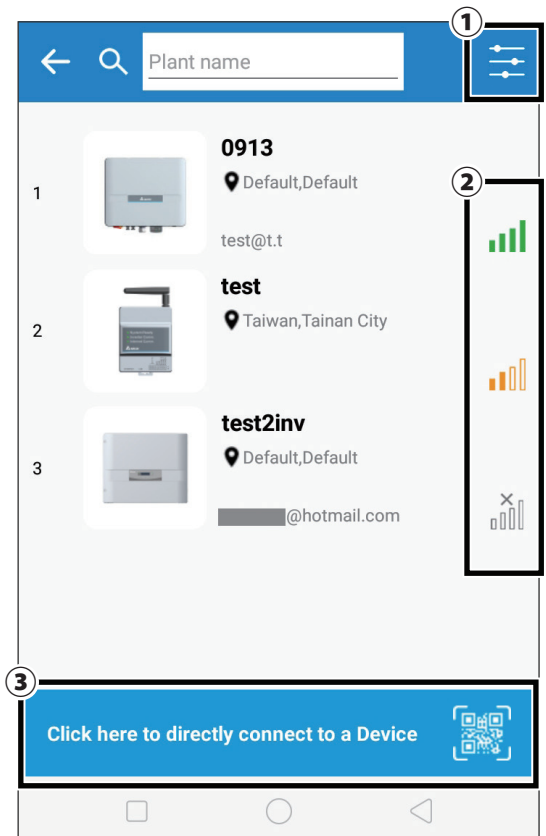
The plant list will shows up when entering "Local monitoring" or "Remote monitoring" of "Monitoring my plant".

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, user can connect to the device by QR code scanning.



Slide the plant picture to the right, user can pin the plant on the top of the list.



Slide to the left, user can delete the plant.

\* The delete by here will only remove the plant info for this account, will not affect other person who has authority for this plant.

\* When the last Owner delete this plant, the plant info will totally remove from cloud.

## 4.2.1. Local monitoring

There are six tabs for Local monitoring.

[ENERGY]

← Local Point-to-Point Monitoring

ENERGY INFO HISTORY CALENDAR LOCAL SETTING

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: O6H20A00737WK

ITEM: Production

Today Energy: 0.00 kWh

DATE: 2021/9/2

☒ DAILY ☐ MONTH ☐ YEAR ☐ 20 YEARS

Production

5  
4  
3  
2  
1  
0

Production [W]

[INFO]

← Local Point-to-Point Monitoring

ENERGY INFO HISTORY CALENDAR LOCAL SETTING

0902

☒ BLOCK ☐ 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

[HISTORY]

← Local Point-to-Point Monitoring

ENERGY INFO HISTORY CALENDAR LOCAL SETTING

0902

☒ BLOCK ☐ INVERTER

DATA COLLECTOR: O6H20A00737WK

ITEM: Startup Log

Startup Log

Data Collector O6H20A00737WK

Time 2021/8/5 上午 12:00:00

[CALENDAR] \* DC1 only

← Local Point-to-Point Monitoring

INFO HISTORY CALENDAR LOCAL SETTING PLANT SETTING

0902

2021/9

Production Purchased Charge Consumption Feed-in Discharge

Sun. Mon. Tue. Wed. Thu. Fri.

|    |    |    |    |    |    |   |
|----|----|----|----|----|----|---|
|    |    |    |    | 1  | 2  | 3 |
| 5  | 6  | 7  | 8  | 9  | 10 |   |
| 12 | 13 | 14 | 15 | 16 | 17 |   |
| 19 | 20 | 21 | 22 | 23 | 24 |   |

[LOCAL SETTING]

← Local Point-to-Point Monitoring

INFO HISTORY CALENDAR LOCAL SETTING PLANT SETTING

0902

Connection

Grid Setting

Network

Maintenance

Function Setting

Change Device Password

[PLANT SETTING]

← Local Point-to-Point Monitoring

INFO HISTORY CALENDAR LOCAL SETTING PLANT SETTING

0902

PLANT NAME: 0902



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

COUNTRY: Default

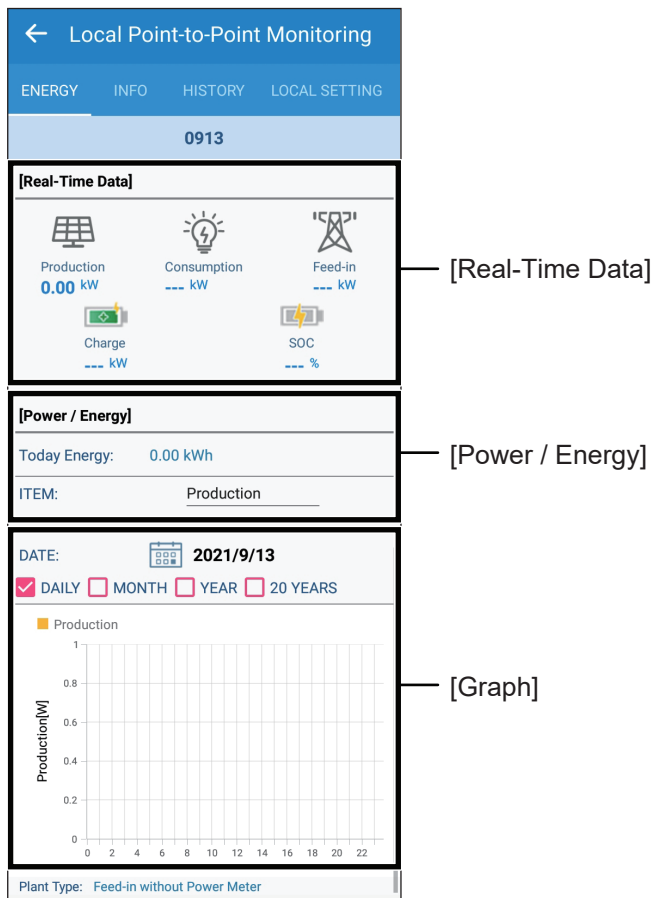
CITY: Default

SET

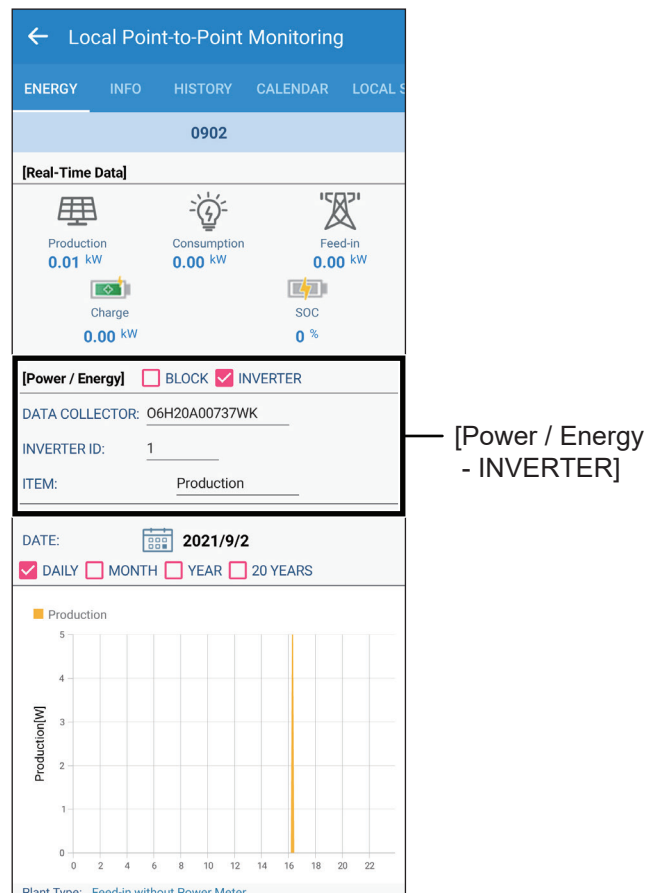
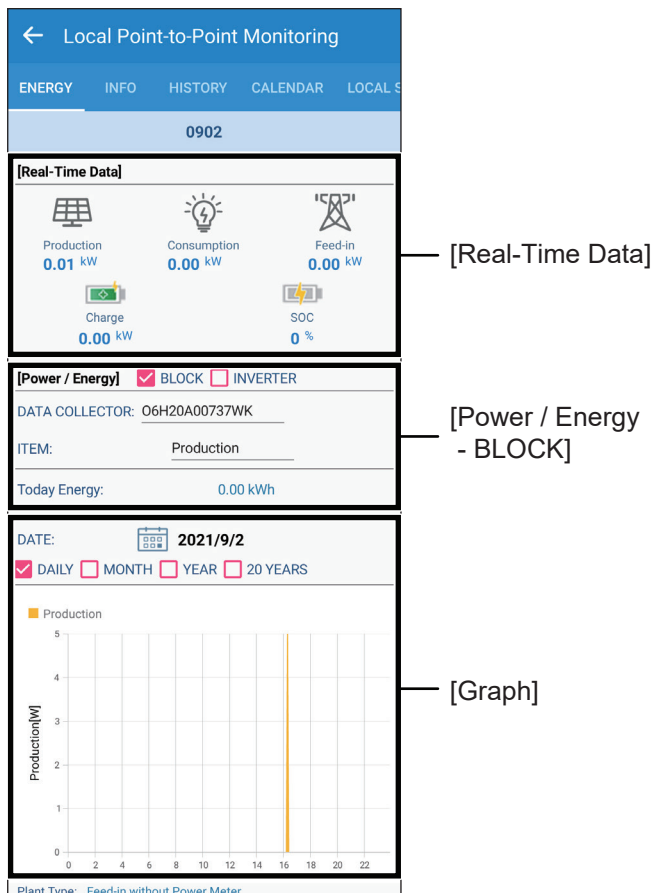
## ENERGY

The indication of energy tab have some different between DC1 and inverter, the additional selection for DC1 is to show the energy by block.

### Connection of Inverter



### Connection of DC1



## INFO

The indication of energy tab have some different between DC1 and inverter.  
For DC1, user can select each device by change the ID.

### Connection of Inverter

Local Point-to-Point Monitoring

ENERGY
INFO
HISTORY
LOCAL SETTING

0913

**Info**

ID1  
Serial NumberO9Y19800016W0  
ModelH5A\_222  
StatusSTANDBY  
CountryAU\_WP

**Energy**

Today Energy0.0 Wh  
Total Life Energy49900.0 Wh

**Input**

Voltage0.00 / 0.00 V  
Current0.00 / 0.00 A  
Power0 / 0 W

**Output**

Voltage0.00 V  
Current0.00 A  
Power0 W

**Meter Info**

Voltage120.20 V  
Current0.32 A  
Power0 W - Feed-in  
Meter StatusOff

### Connection of DC1

Local Point-to-Point Monitoring

ENERGY
INFO
HISTORY
CALENDAR
LOCAL SETTING

0902

☒ BLOCK ☐ INVERTER

DATA COLLECTOR: O6H20A00737WK

**Info**

Serial NumberO6H20A00737WK  
ModelDC1\_100  
Meter Quantity0  
Firmware Version83.06

**Energy**

Today Energy0.0 kWh  
Total Life Energy14.8 kWh

[BLOCK]

Local Point-to-Point Monitoring

ENERGY
INFO
HISTORY
CALENDAR
LOCAL SETTING

0902

☐ BLOCK ☒ INVERTER

DATA COLLECTOR: O6H20A00737WK

INVERTER ID: 1

**Info**

ID1  
Serial NumberO9Y19700007W0  
ModelH5A\_222  
StatusCheck DC  
CountryAU\_WP

**Energy**

Today Energy0.0 Wh  
Total Life Energy14860.0 Wh

**Input**

Voltage1.10 / 1.20 V  
Current3.20 / 2.32 A  
Power3.00 / 2.00 W

**Output**

Voltage119.20 V  
Current0.71 A  
Power0.00 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 SETTING

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 SETTING

0902

☐ BLOCK ☒ INVERTER

DATA COLLECTOR: O6H20A00737WK

INVERTER ID: All

ITEM: Event Log

START DATE: 2021/9/2

END DATE: 2021/9/2

**Event Log**

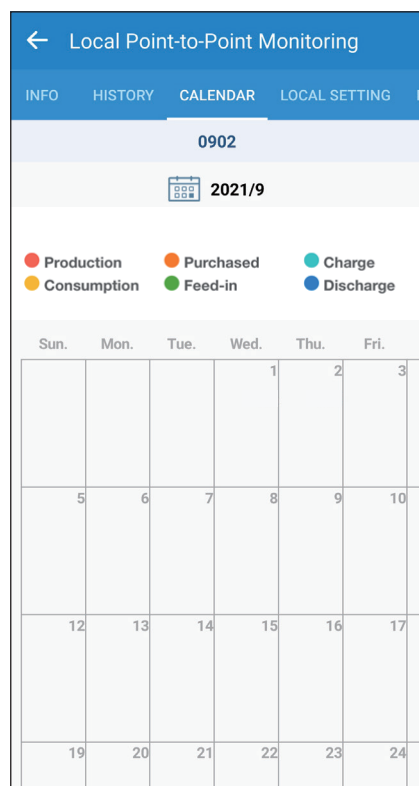
|       |                        |
|-------|------------------------|
| ID    | 1                      |
| Time  | 2021/12/13 上午 11:10:13 |
| Event | E09 - No Grid          |

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

## CALENDAR

The calendar is only for the connection of DC1, user can check the energy flow by day.

### Connection of DC1

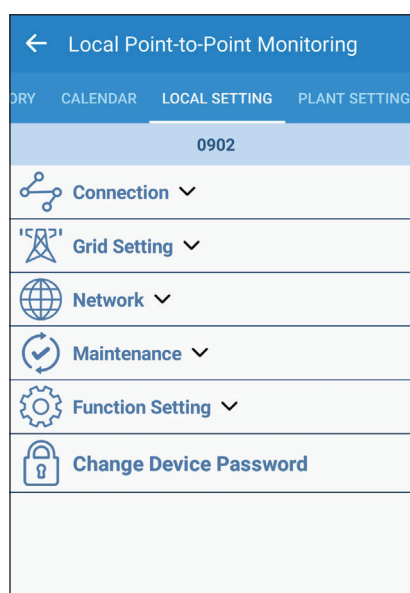


## LOCAL SETTING

### Connection of Inverter



### Connection of DC1



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

## PLANT SETTING

User can change plant name, plant picture, country, city by plant setting.

### Connection of Inverter

← Local Point-to-Point Monitoring

HISTORYLOCAL SETTINGPLANT 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

DRYCALENDARLOCAL SETTINGPLANT SETTING

0902

PLANT NAME:0902



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

COUNTRY:Default

CITY:Default

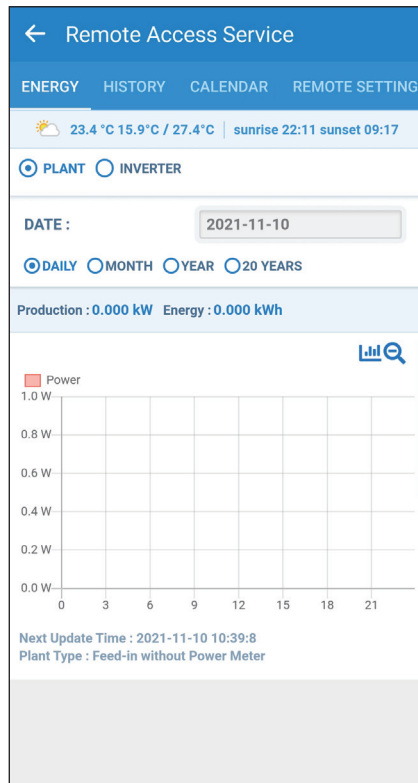
SET



## 4.2.2. Remote monitoring

There are five tabs for "Remote monitoring"

[Energy]



[History]

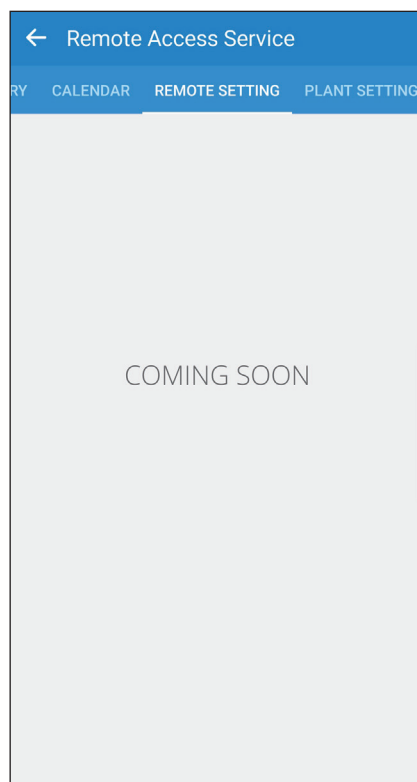
| Plant Name | Time                |
|------------|---------------------|
| test       | 2021-11-10 10:30:36 |

[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  |

(unit: Wh)

[Remote Setting]



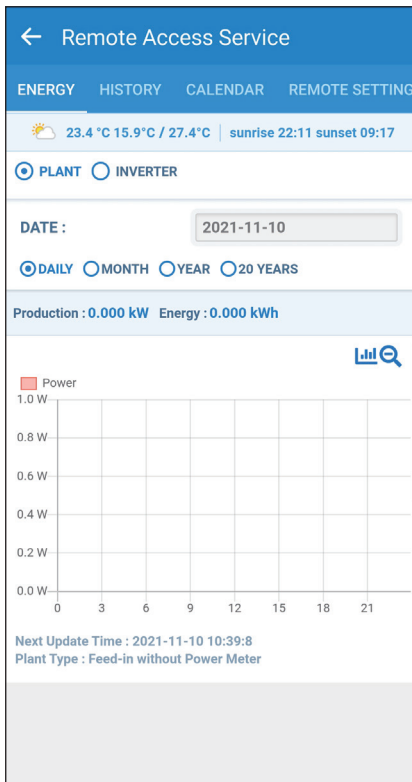
[Plant Setting]

## Energy

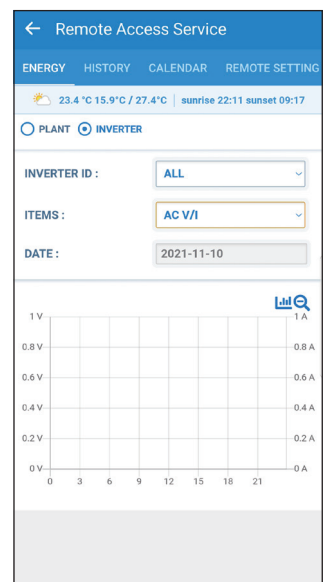
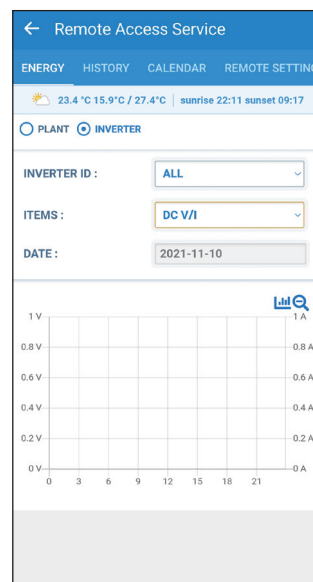
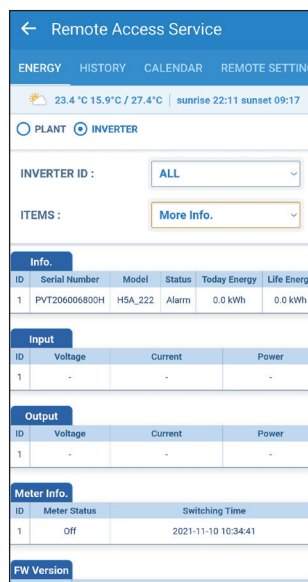
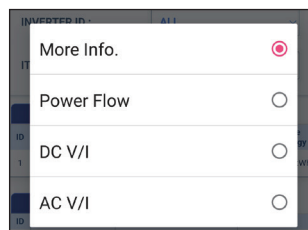
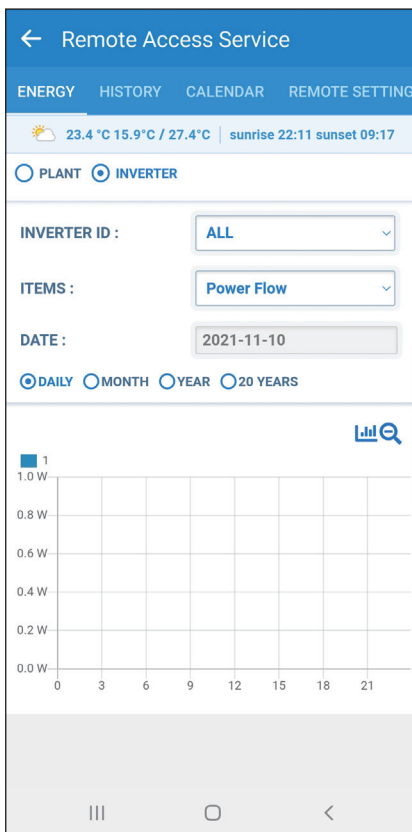
In energy tab, User can check energy for whole plant and detail information of each inverter by selecting Plant/Inverter.

### Connection of Inverter

#### [PLANT]

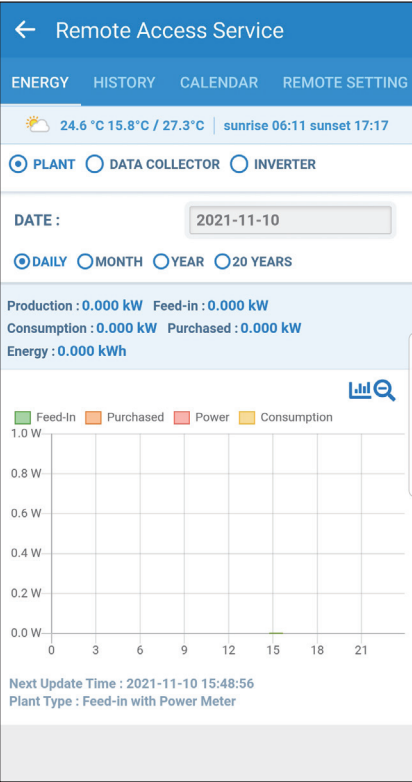


#### [INVERTER]

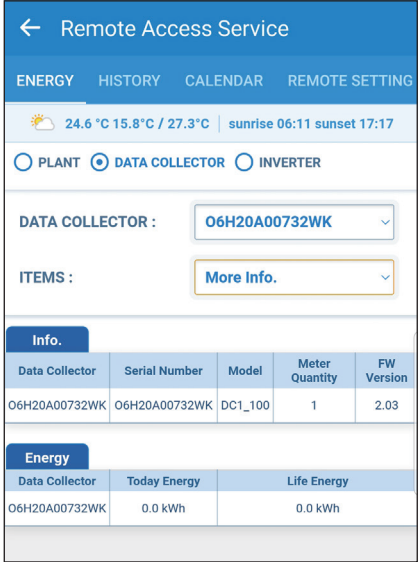
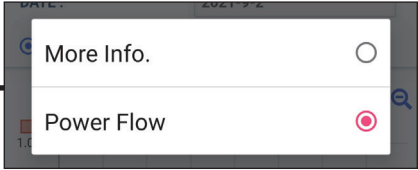
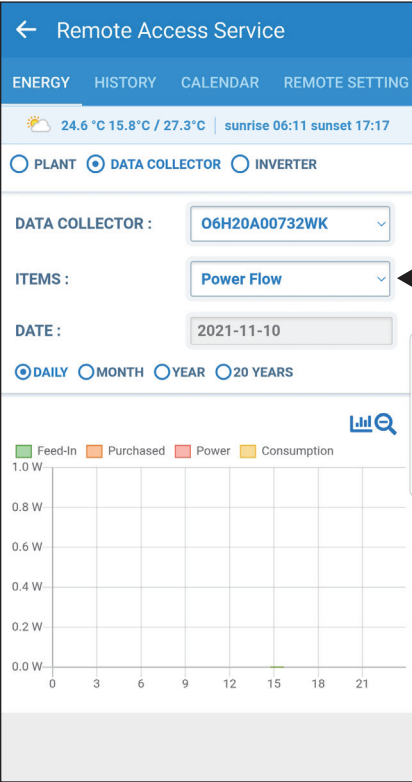


Connection of DC1

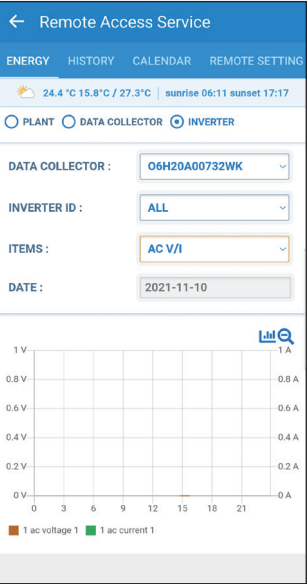
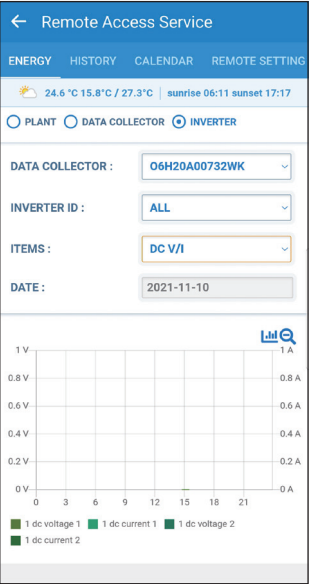
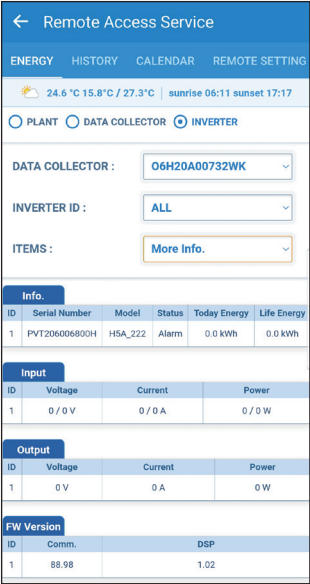
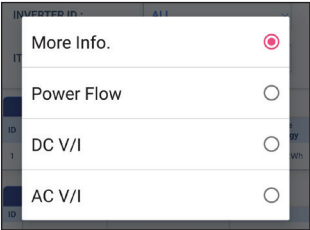
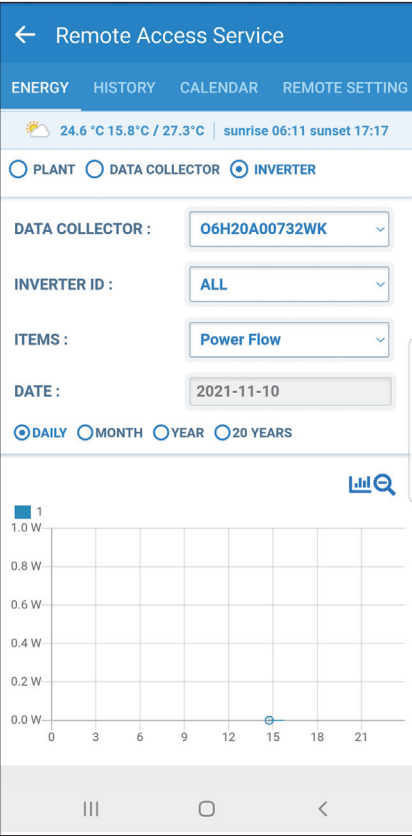
[PLANT]



[DATA COLLECTOR]



[INVERTER]



## History

In History tab, User can check startup date and event log of each inverter by selecting Plant/Inverter.

### Connection of Inverter

[PLANT]

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 |

[INVERTER]

Remote Access Service

ENERGY HISTORY CALENDAR REMOTE SETTING

☐ PLANT ☒ INVERTER

INVERTER ID : ALL

ITEMS : Event

START DATE : 2021-11-10

END DATE : 2021-11-10

| ID | Time                | Event |
|----|---------------------|-------|
| 1  | 2021-11-10 10:30:00 |       |

Event

Disconnect

Startup

Remote Access Service

ENERGY HISTORY CALENDAR REMOTE SETTING

☐ PLANT ☒ INVERTER

INVERTER ID : ALL

ITEMS : Disconnect

START DATE : 2021-11-10

END DATE : 2021-11-10

| ID | Start               | End |
|----|---------------------|-----|
| 1  | 2021-11-10 10:30:00 |     |

Remote Access Service

ENERGY HISTORY CALENDAR REMOTE SETTING

☐ PLANT ☒ INVERTER

INVERTER ID : ALL

ITEMS : Startup

START DATE : 2021-11-10

END DATE : 2021-11-10

| ID | Time                |
|----|---------------------|
| 1  | 2021-11-10 10:30:00 |

Connection of DC1

[PLANT]

Remote Access Service

ENERGYHISTORYCALENDARREMOTE 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

ENERGYHISTORYCALENDARREMOTE 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

ENERGYHISTORYCALENDARREMOTE SETTING

PLANT

DATA COLLECTOR

INVERTER

DATA COLLECTOR :

O6H20A00732WK

ITEMS :

Startup

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

[INVERTER]

Remote Access Service

ENERGYHISTORYCALENDARREMOTE 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 | Fallsafe (F114)                                      |

START DATE :

2021-9-2

Event

Disconnect

Startup

Remote Access Service

ENERGYHISTORYCALENDARREMOTE 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

ENERGYHISTORYCALENDARREMOTE SETTING

PLANT

DATA COLLECTOR

INVERTER

DATA COLLECTOR :

O6H20A00732WK

INVERTER ID :

ALL

ITEMS :

Startup

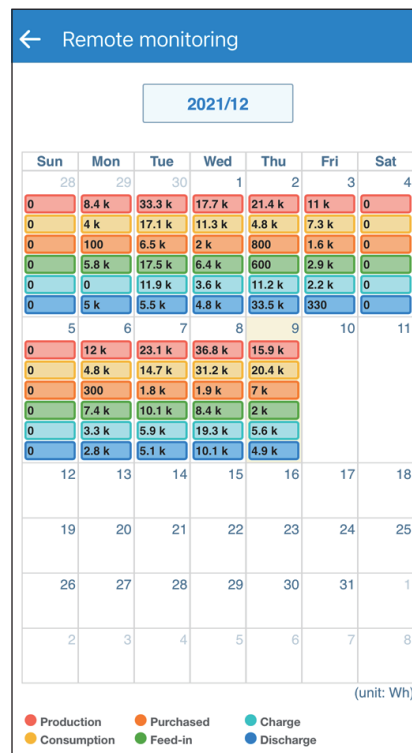
| ID | Time                |
|----|---------------------|
| 1  | 2021-11-10 14:45:00 |

## CALENDAR

### Connection of Inverter



### Connection of DC1



## Plant Setting

### Connection of Inverter

PLANT: User can change plant info and share plant to others.

BLOCK : User can define devices into a block and the information can be shown in energy tab by blocks.

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

NOTIFICATION : User can set emails here to let cloud send notification for fault or error of the plant.

#### [PLANT]

The screenshot shows the 'Remote Access Service' app with the 'PLANT SETTING' tab selected. The 'PLANT' radio button is active. The form includes fields for 'PLANT NAME' (with a 'test' value and 'Select File'/'Upload' buttons), a plant image placeholder with size and file size limits, 'COUNTRY' (Taiwan), 'CITY' (Tainan City), 'TIMEZONE' ((GMT+08:00) Taipei,...), 'LATITUDE' (23.120904), and 'LONGITUDE' (120.275870). At the bottom, there is a 'SHARE PLANT WITH SPECIFIC PEOPLE' section with an '+ Add' button.

#### [BLOCK]

The screenshot shows the 'Remote Access Service' app with the 'BLOCK' radio button active. The form includes a 'BLOCK' dropdown menu, an '+ Add New Block' button, an 'EDIT' link, a 'BLOCK NAME' input field, and a 'DEVICES' section with checkboxes for 'ALL' and '1'. At the bottom, there are 'Apply' and 'Delete' buttons.

#### [INVERTER]

The screenshot shows the 'Remote Access Service' app with the 'INVERTER' radio button active. The form includes an 'INVERTER ID' dropdown (value: 1), an 'EDIT' link, an 'INVERTER NAME' input field, a 'SERIAL NUMBER' input field (value: PVT206006800H), a 'MAC' input field (value: 88DA1A5A5650), and another 'INVERTER ID' input field (value: 1). At the bottom, there are 'Apply' and 'Delete' buttons.

#### [NOTIFICATION]

The screenshot shows the 'Remote Access Service' app with the 'NOTIFICATION' radio button active. The form includes a table with columns 'E-mail', 'Fault', 'Error', and 'Disconnection'. The 'E-mail' column has a value 'FADELTA202...' and a '+' icon. The 'Fault' and 'Error' columns have checkboxes. The 'Disconnection' column has a 'Cancel' dropdown. At the bottom, there is an 'Apply' button.

## Connection of DC1

PLANT: User can change plant info and share plant to others.

BLOCK : User can define devices into a block and the information can be shown in energy tab by blocks.

DATA COLLECTOR : User can check ID, S/N of the DC1.

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

NOTIFICATION : User can set emails here to let cloud send notification for fault or error of the plant.

### [PLANT]

← Remote Access Service

Y CALENDAR REMOTE SETTING PLANT SETTING

☒ PLANT ☐ BLOCK ☐ DATA COLLECTOR ☐ INVERTER

☐ NOTIFICATION

PLANT NAME :

test

Select File Upload



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

COUNTRY :

Taiwan

CITY :

Tainan City

TIMEZONE :

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

LATITUDE :

23.120928

LONGITUDE :

120.275862

SHARE PLANT WITH SPECIFIC PEOPLE

+ Add

FADELTA2021@gmail.com (Owner)

### [BLOCK]

← Remote Access Service

Y CALENDAR REMOTE SETTING PLANT SETTING

☐ PLANT ☒ BLOCK ☐ DATA COLLECTOR ☐ INVERTER

☐ NOTIFICATION

BLOCK :

+ Add New Block

EDIT

BLOCK NAME :

BLOCK NAME

DEVICES :

☐ 06H20A00732WK :

☐ 1

ApplyDelete

### [DATA COLLECTOR]

← Remote Access Service

Y CALENDAR REMOTE SETTING PLANT SETTING

☐ PLANT ☐ BLOCK ☒ DATA COLLECTOR ☐ INVERTER

☐ NOTIFICATION

DATA COLLECTOR :

06H20A00732WK

EDIT

COLLECTOR NAME :

COLLECTOR NAME

SERIAL NUMBER :

06H20A00732WK

MAC :

0035FF93B562

ApplyDelete

### [INVERTER]

← Remote Access Service

Y CALENDAR REMOTE SETTING PLANT SETTING

☐ PLANT ☐ BLOCK ☐ DATA COLLECTOR ☒ INVERTER

☐ NOTIFICATION

DATA COLLECTOR :

06H20A00732WK

EDIT

INVERTER ID :

1

INVERTER NAME :

INVERTER NAME

SERIAL NUMBER :

PVT206006800H

INVERTER ID :

1

ApplyDelete

### [NOTIFICATION]

← Remote Access Service

Y CALENDAR REMOTE SETTING PLANT SETTING

☐ PLANT ☐ BLOCK ☐ DATA COLLECTOR ☐ INVERTER

☒ NOTIFICATION

E-mail Fault Error Disconnection

FADELTA202...

☐

☐

Once A Day

+

Apply



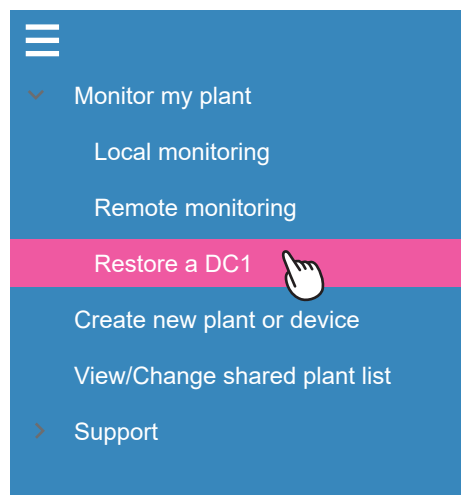
## 4.2.3. Restore a DC1

### ATTENTION



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

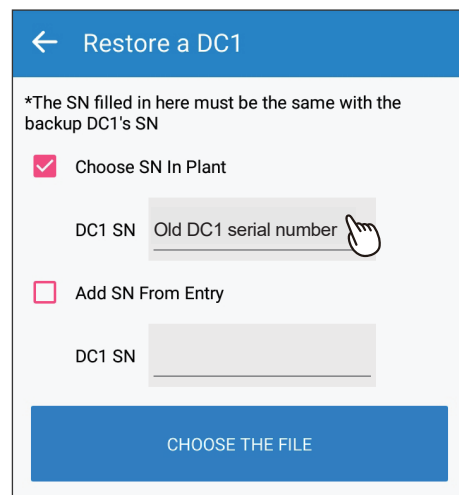
Click Menu --> Restore a DC1



Select serial number of new DC1.



Select serial number of old DC1.

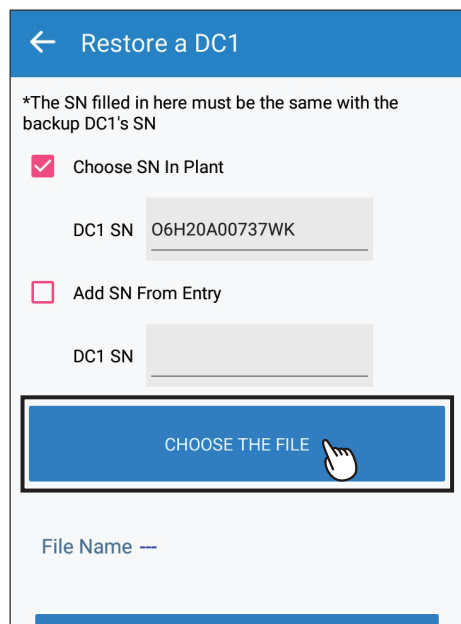


Before doing restore DC1, please backup the data from old DC1. (refer chapter 5.4)

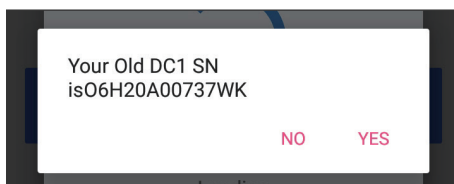


if the serial is not on the list, user can try type in the serial number manually.

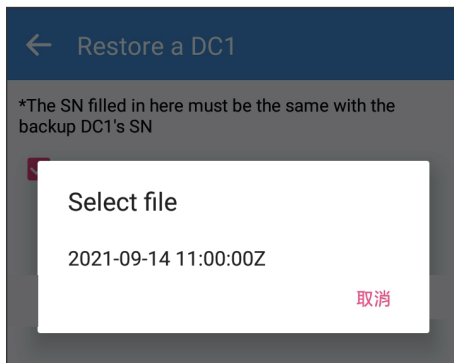
Click "CHOOSE THE FILE"



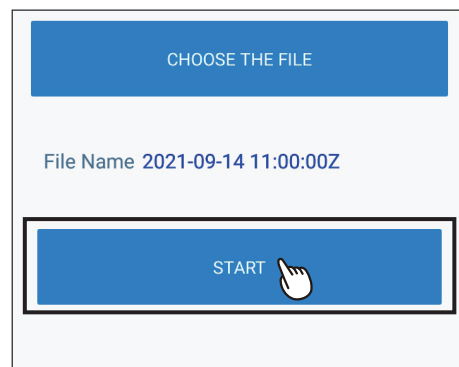
Confirm the serial number of old DC1.



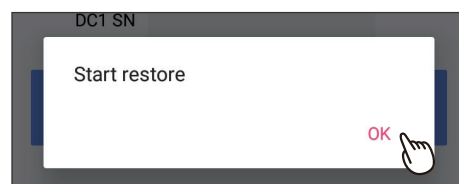
Select the file for the restore process.



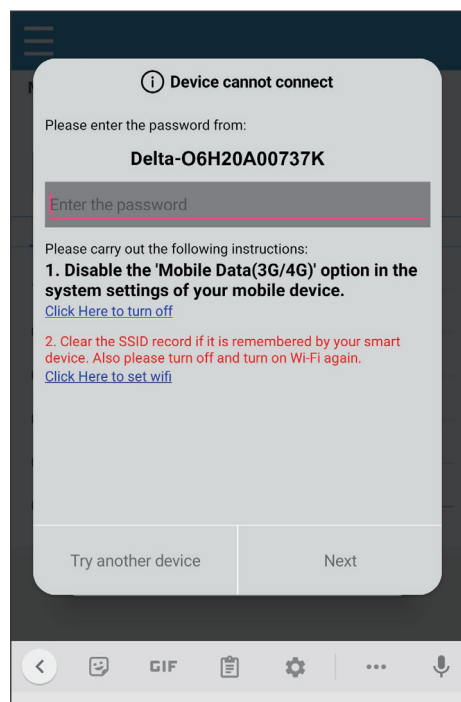
Confirm the file is correct then click "Start".



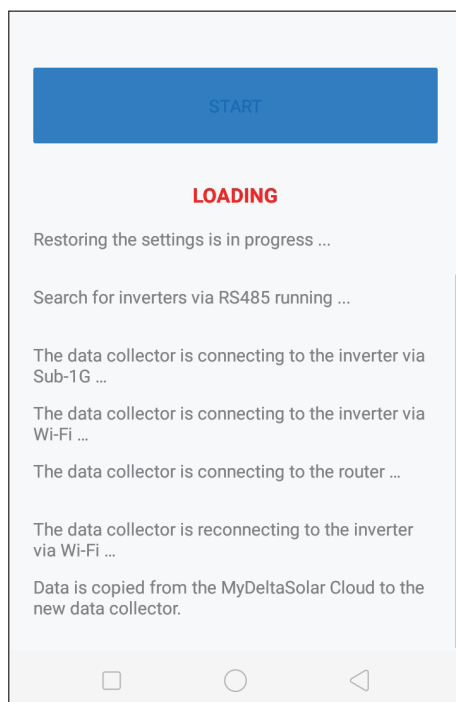
Click "OK"



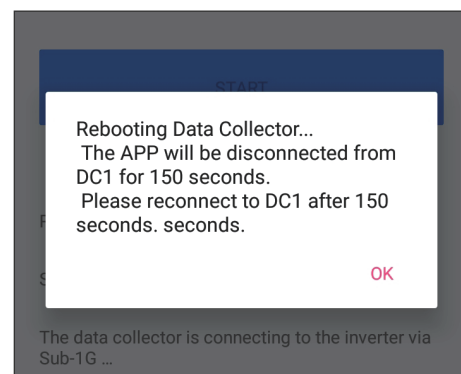
Please type in the password of old DC1.



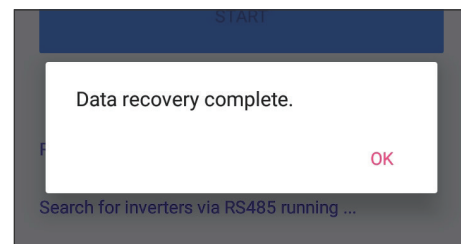
APP will start restore process.



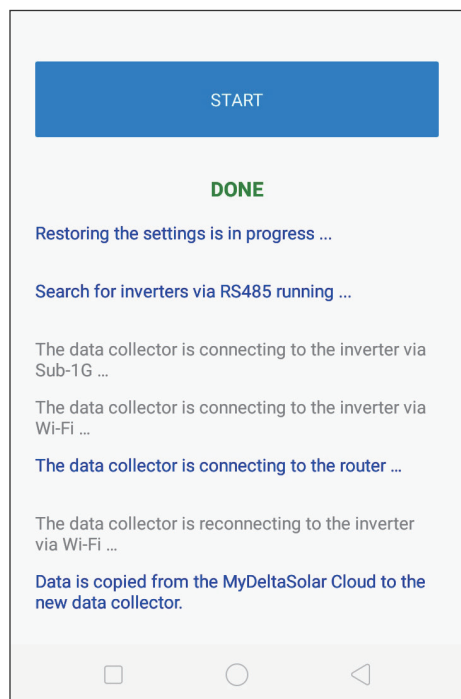
The process will take around 150 sec, click OK to proceed.



Data recovery complete.

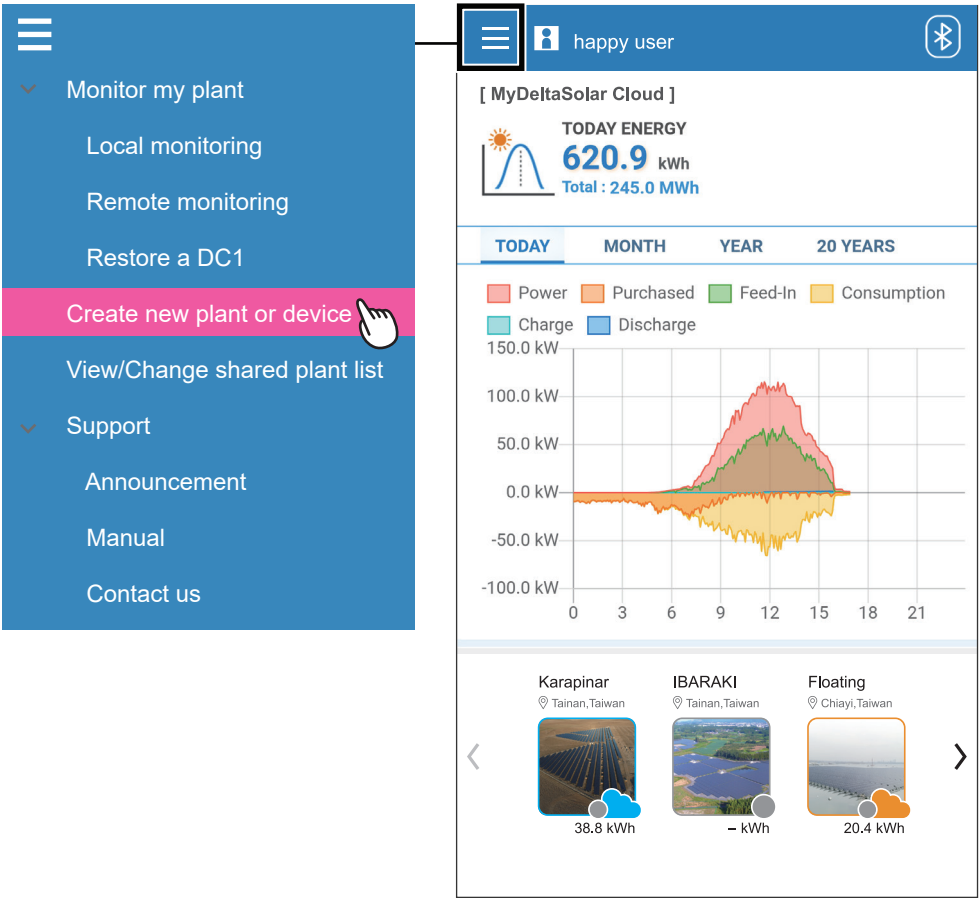


DONE.



# 4.3. Create new plant or device

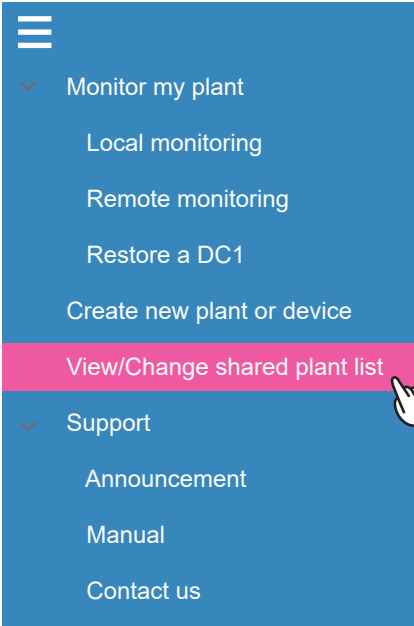
For more details, please refer chapter 2 commissioning.



## 4.4. View/Change shared plant list

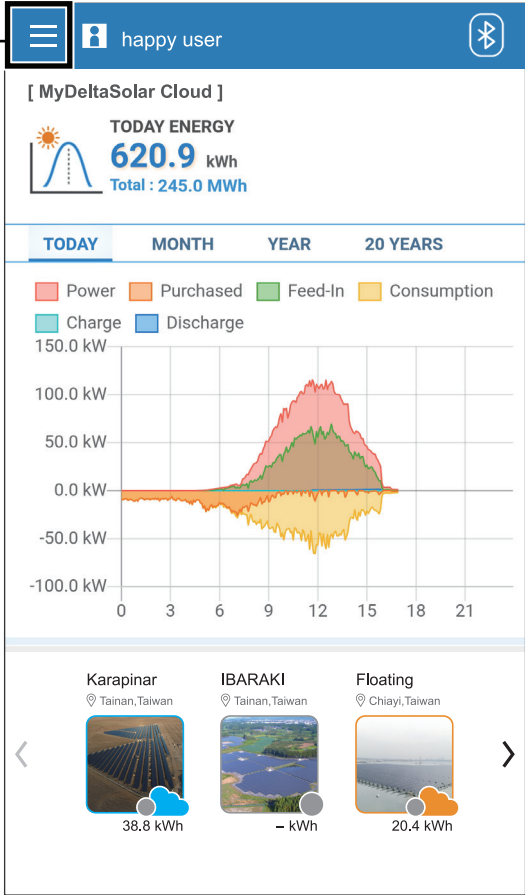
User (owner) can arrange the authority to others, the account has authority to access the plant can check the shared plant list here.

\* Only 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        | ✓                                              | 🔒       | 🔒      |



**MyDeltaSolar Cloud**

TODAY ENERGY  
620.9 kWh  
Total : 245.0 MWh

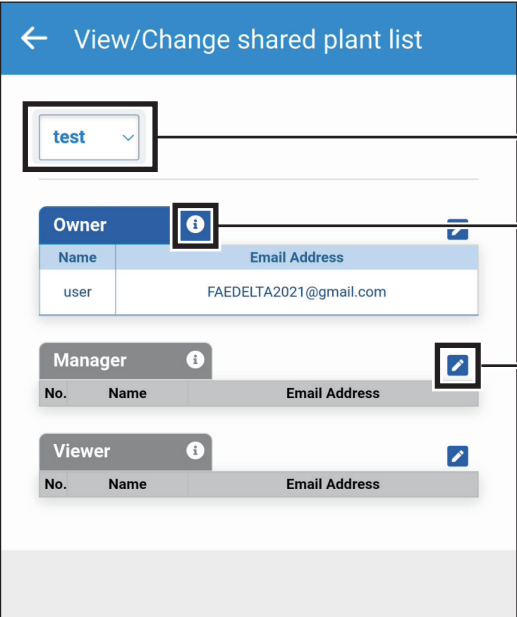
TODAY MONTH YEAR 20 YEARS

Power Purchased Feed-In Consumption Charge Discharge

150.0 kW  
100.0 kW  
50.0 kW  
0.0 kW  
-50.0 kW  
-100.0 kW

0 3 6 9 12 15 18 21

Karapinar Tainan, Taiwan 38.8 kWh  
IBARAKI Tainan, Taiwan - kWh  
Floating Chiayi, Taiwan 20.4 kWh



test Select the plant for edit

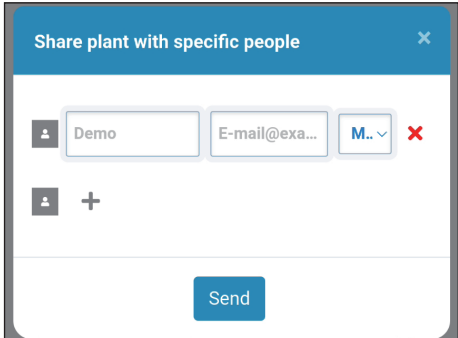
Owner Name Email Address  
user FAEDELTA2021@gmail.com

Manager No. Name Email Address

Viewer No. Name Email Address

Click here to check function accessibility

Edit the authority list



Share plant with specific people

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

+

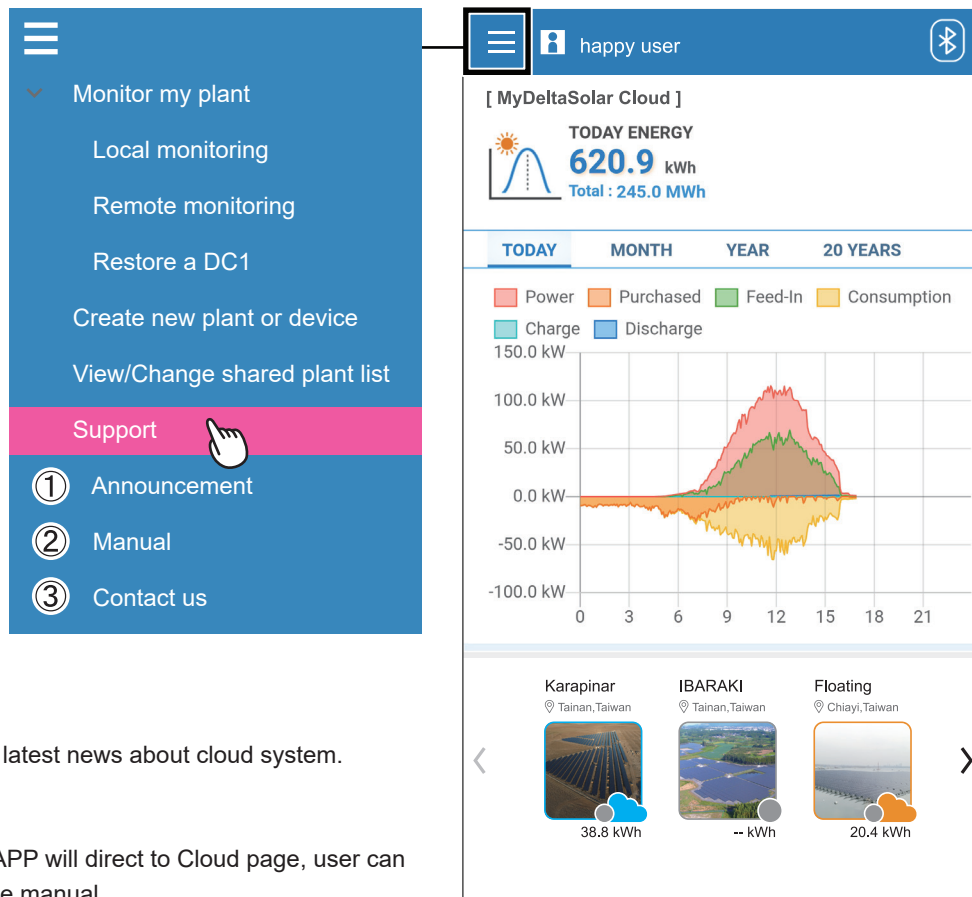
Send

\* The Owner can share the same authority to second person (one site can only have two Owner authority)

\* If the shared account has not register to Delta cloud, the cloud system will send a invitation letter to the mailbox and invite to join DeltaSolar APP member.

## 4.5. Support

There are three option in "Support" : 「Announcement」 、 「Manual」 、 「Contact us」



① Announcement

Will publish the latest news about cloud system.

② Manual

After click, the APP will direct to Cloud page, user can check the device manual .

③ Contact us

With Internet ability : please fill in the request form and submit the customer service.

Without Internet ability : please contact the local contact window shown on APP.

← Announcement

### Announcements

🔔 2021/04/22 System Update

- New plant notification setting page: You can subscribe/unsubscribe alert or disconnect notification E-mail more flexibly.
- Green Home Solar Power Solutions: Integrate home green power device information, including electric vehicle charging pile and battery storage information.

---

2019/12/17 System Update

- Official Launch of Block Mechanism: You can set up the blocks of plants through the cloud, where the power generation data of data collectors or inverters can be effectively integrated.
- New Revision of Data Chart: Optimize the user experience of data charts. Provide faster data visualization efficiency, chart dynamic filtering and

← Manual

Inverter Battery Data Collector Power Monitor Power Meter  
Comm. Unit Mobile App

### SINGLE PHASE INVERTER

H2.5 / H3 / H3A / H4A / H5A

Operation and Installation Manual :

📄 English 📄 繁體中文 📄 Português

Quick Installation Guide :

📄 English

---

H5A\_222

Operation and Installation Manual :

📄 English 📄 繁體中文

Quick Installation Guide :

← Contact Us

### CONTACT US

Delta Inc. Customer Service

NAME :

E-MAIL :

REGION :

PHONE :

TITLE :

MESSAGE :

# 5. Application

This chapter contains the setting for two communication way of DC1.

## 5.1. Modbus TCP/IP

If the communication protocol for DC1 is Modbus TCP/IP, please follow below process to set 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)

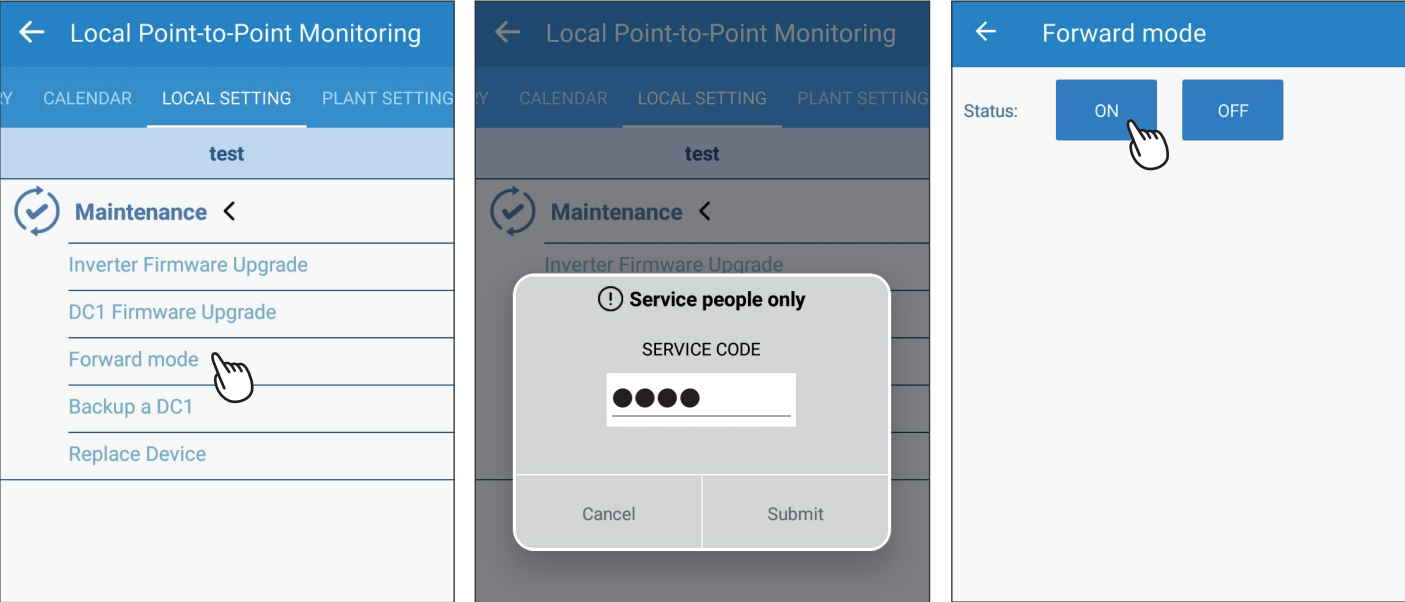
\* Please contact local service for the password

Forward mode is suitable for third party monitoring system that already built in Delta Modbus RTU protocol address.

LOCAL SETTING -> Maintenance  
-> Forward mode

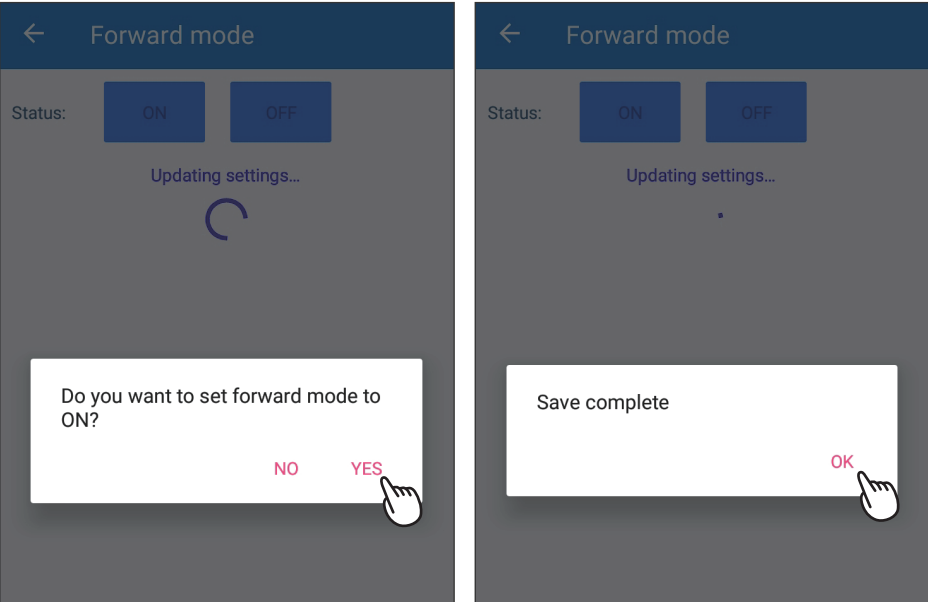
Please contact Delta local service for the password.

Click "OK" to save the settings.



Click "YES".

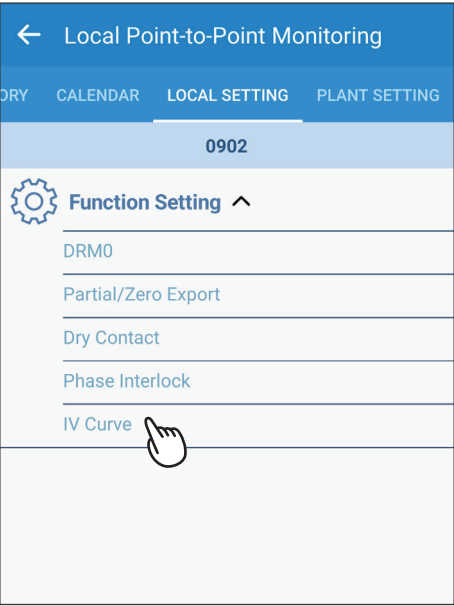
Save complete.



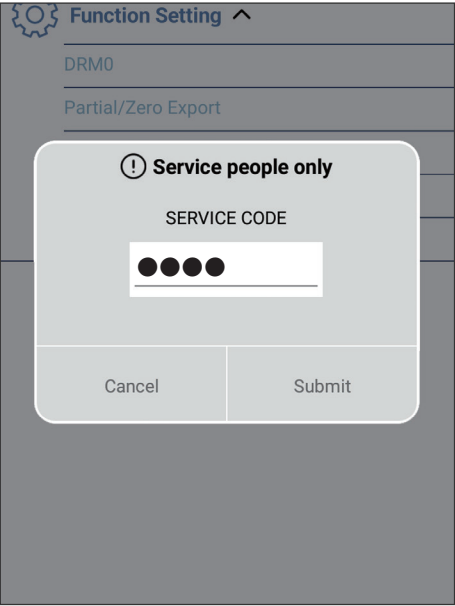
# 5.3. IV Curve

\* Please contact local service for the password

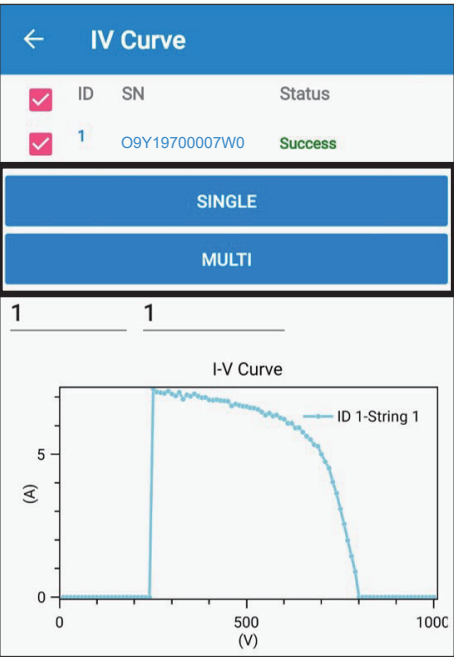
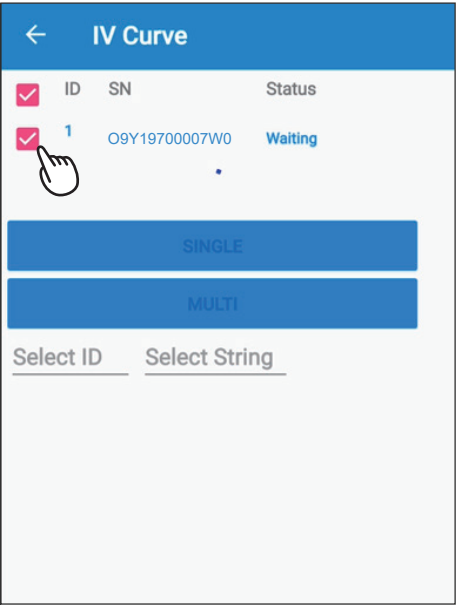
LOCAL SETTING -> Maintenance  
-> Forward mode



Please contact Delta local service for the password.



Check the inverter for IV curve scan.



- a. Click "SINGLE", DC1 will do the IV curve scan one by one.
  - b. Click "MULTI", DC1 will do IV curve scan once for all inverter.
- \* Suggest to use "SINGLE" to avoid power drop for the plant.



# 6. Maintenance

This chapter will give detail description for some setting process.

## 6.1. Firmware update

This section introduce firmware update process of DC1 & Wifi inverter. please refer the process below.

### 6.1.1. DC1 Firmware Update

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

LOCAL SETTING -> Maintenance -> DC1 Firmware Update

Select Download Access.

DC1 Firmware Update

DC1 Info

DC1 FW : 01.30

SN: 06H20A00737WK

DC1 FW Update

Download Access: [Dropdown Menu]

DOWNLOAD DC1 FW FILE

Download Status : —

Click "Delta server".

DC1 Firmware Update

DC1 Info

DC1 FW : 01.30

SN: 06H20A00737WK

DC1 FW Update

Delta Server

USB

CANCEL

Click "DOWNLOAD DC1 FW FILE".

DC1 Firmware Update

DC1 Info

DC1 FW : 01.30

SN: 06H20A00737WK

DC1 FW Update

Download Access: Delta Server

DOWNLOAD DC1 FW FILE

Download Status : —

Click "OK".

DC1 Firmware Update

DC1 Info

DC1 FW : 01.30

SN: 06H20A00737WK

DC1 FW Update

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

OK

Download Status : Downloading ...

DC1 FIRMWARE UPDATE

Select the method to get Internet ability.

Please select target device's SSID

Router/Others

\*Due to the policy of Android & iOS system permission, if you do not use '4G', then please turn off the mobile data before you press the 'Next' button.

☐ 4G/3G(mobile data)

Mobile data can be also used as internet connection (You will have to manually turn it ON/OFF). Please select mobile data only when there is no Wi-Fi signal.

☐ Wi-Fi Router

NEXT

Downloading...

DC1 Firmware Update

DC1 Info

DC1 FW : 01.30

SN: 06H20A00737WK

DC1 FW Update

Download Access: Delta Server

DOWNLOAD DC1 FW FILE

Download Status : Downloading ...

DC1 FIRMWARE UPDATE

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

← DC1 Firmware Update

DC1 Info

DC1 FW : 01.30

SN: 06H20A00737WK

DC1 FW Update

Download Access: Delta Server

DOWNLOAD DC1 FW FILE

Download Status : Finished: V02.01

DC1 FIRMWARE UPDATE

Update Status : —

Click "OK".

← DC1 Firmware Update

DC1 Info

DC1 FW : 01.30

SN: 06H20A00737WK

DC1 FW Update

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

OK

DC1 FIRMWARE UPDATE

Update Status : —

Select the serial number of the DC1.

Please select target device's SSID

Data Collector

☒ DELTA-O6H20A00737WK | -36dBm

☐ DELTA-O9D20100013WA | -51dBm

☐ DELTA-O6H19600511WC | -58dBm

NEXT

Sending file to DC1...

← DC1 Firmware Update

DC1 Info

DC1 FW : 01.30

SN: 06H20A00737WK

DC1 FW Update

Download Access: Delta Server

DOWNLOAD DC1 FW FILE

Download Status : Finished: V02.01

DC1 FIRMWARE UPDATE

Update Status : Sending file to DC1

DC1 is updating...

← DC1 Firmware Update

DC1 Info

DC1 FW : 01.30

SN: 06H20A00737WK

DC1 FW Update

Download Access: Delta Server

DOWNLOAD DC1 FW FILE

Download Status : Finished: V02.01

DC1 FIRMWARE UPDATE

Update Data Collector is updating...The LED Status : indicator will turn red.Please wait 2~4 minutes.

Successfully updated DC1.

← DC1 Firmware Update

DC1 Info

DC1 FW : 02.01

SN: 06H20A00737WK

DC1 FW Update

Download Access: Delta Server

DOWNLOAD DC1 FW FILE

Download Status : Finished: V02.01

DC1 FIRMWARE UPDATE

Update Status : Successfully updated Data Collector.

[DC1 Firmware Update - USB update method]

LOCAL SETTING -> Maintenance -> DC1 Firmware Update

Select Download Access.

←

DC1 Firmware Update

DC1 Info

DC1 FW : 01.30

SN: 06H20A00737WK

DC1 FW Update

Download Access:

DOWNLOAD DC1 FW FILE

Download Status :

Click "USB".

←

DC1 Firmware Update

DC1 Info

DC1 FW : 01.30

SN: 06H20A00737WK

DC1 FW Update

Delta Server

USB

CANCEL

Click "DOWNLOAD DC1 FW FILE".

←

DC1 Firmware Update

DC1 Info

DC1 FW : 01.30

SN: 06H20A00737WK

DC1 FW Update

Download Access: USB

DOWNLOAD DC1 FW FILE

Download Status :

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

←

DC1 Firmware Update

DC1 Info

DC1 FW : 01.30

SN: 06H20A00737WK

DC1 FW Update

Download Access: USB

DOWNLOAD DC1 FW FILE

Download Status : Finished: 02.01

DC1 FIRMWARE UPDATE

Update Status :

DC1 is updating...

←

DC1 Firmware Update

DC1 Info

DC1 FW : 01.30

SN: 06H20A00737WK

DC1 FW Update

Download Access: USB

DOWNLOAD DC1 FW FILE

Download Status : Finished: 02.01

DC1 FIRMWARE UPDATE

Update Status : Data Collector is updating...The LED indicator will turn red.Please wait 2~4 minutes.

Successfully updated DC1.

←

DC1 Firmware Update

DC1 Info

DC1 FW : 02.01

SN: 06H20A00737WK

DC1 FW Update

Download Access: USB

DOWNLOAD DC1 FW FILE

Download Status : Finished: 02.01

DC1 FIRMWARE UPDATE

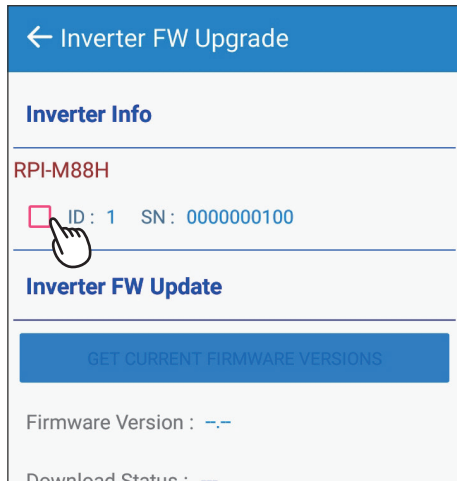
Update Status : Successfully updated Data Collector.

## 6.1.2. Inverter FW Update

### [Inverter FW Update - connection of DC1]

LOCAL SETTING -> Maintenance -> Inverter Firmware Update

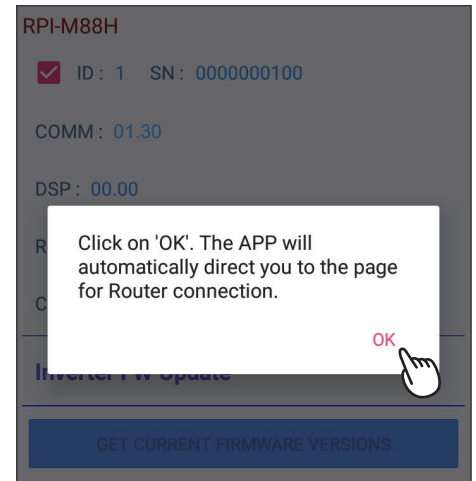
Select the Inverter S/N for FW update.



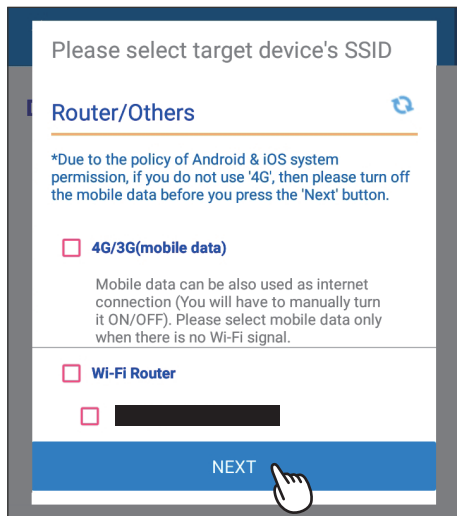
Click "GET CURRENT FIRMWARE VERSIONS".



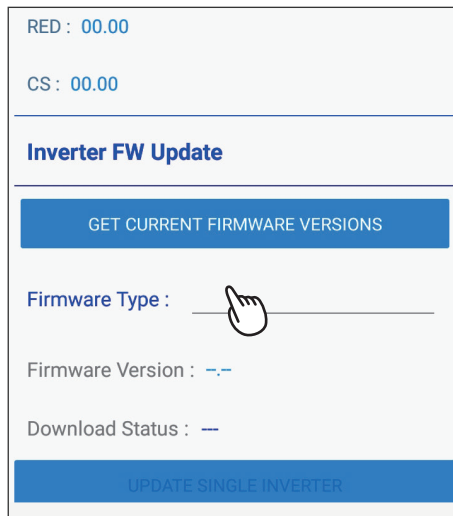
Click "OK".



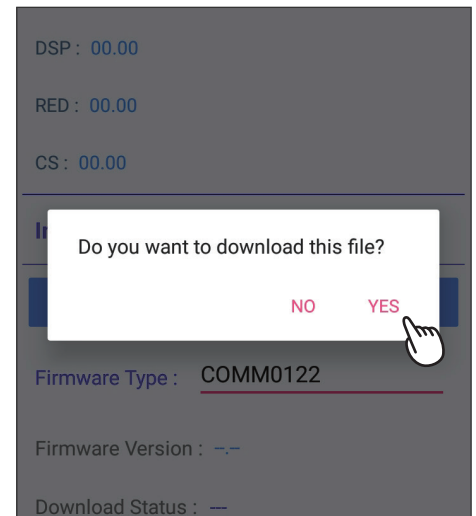
Select the method to get Internet ability.



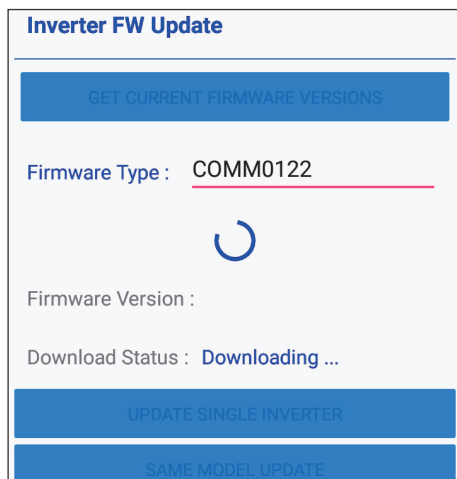
Select FW type, please confirm with local service for the FW type.



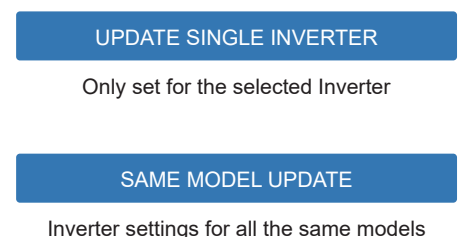
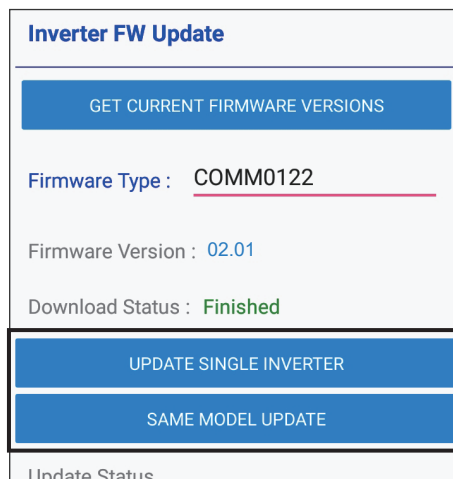
Click "YES".



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 user connect to Internet.

Select the method to get Internet ability.

Click "Inverter Model".

Select the Inverter model for FW update.

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

Click "Load Hex File".

After download 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-O5Q18500961W0            | -33 |                                 |
| <input checked="" type="checkbox"/> Delta-O9Y19800016W0 | -40 | Checking connection of inverter |
| <input type="checkbox"/> Delta-O9Y19700007W0            | -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-O5Q18500961W0            | -33 |           |
| <input checked="" type="checkbox"/> Delta-O9Y19800016W0 | -40 | Upgrading |
| <input type="checkbox"/> Delta-O9Y19700007W0            | -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-O5Q18500961W0            | -33 |         |
| <input checked="" type="checkbox"/> Delta-O9Y19800016W0 | -40 | Success |
| <input type="checkbox"/> Delta-O9Y19700007W0            | -53 |         |
| <input type="checkbox"/> Delta-PVT206006800H            | -70 |         |

Update Inverter

Firmware Version : 02.07

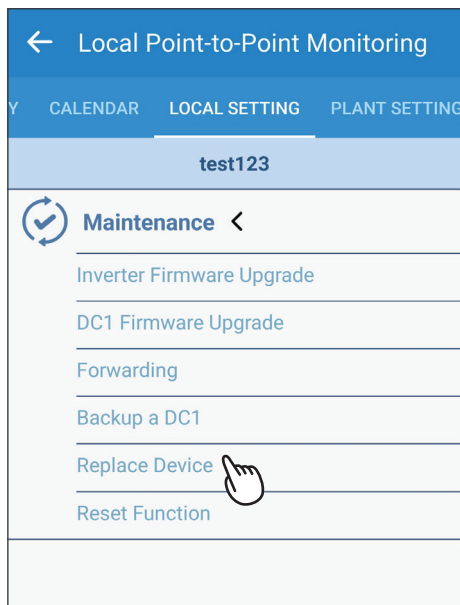
Information:  
BurnProcessTCP done  
BankCloseProcTCP done  
BurnDoneProcTCP done  
InternalProcTCP\_final done  
Total Tx Len :227968

## 6.2. Replace inverter

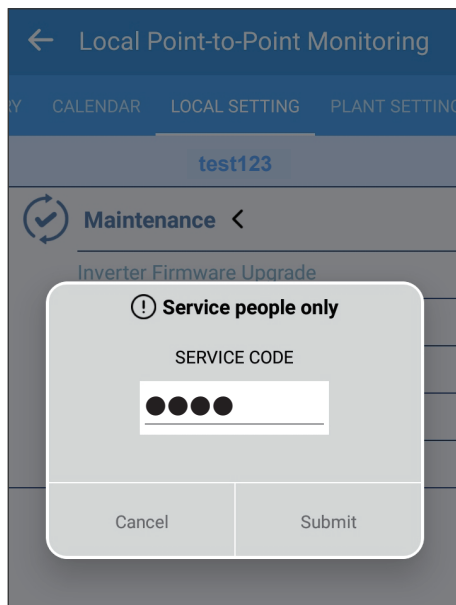
\* Please contact local service for the password

This process is to replace the inverter which has been register to the DC1.

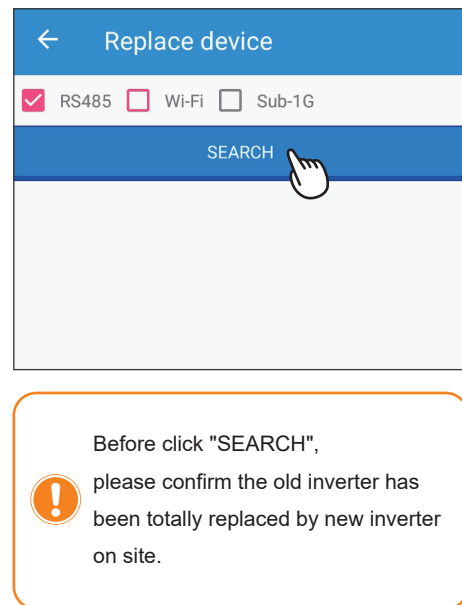
LOCAL SETTING -> Maintenance  
-> Replace Device



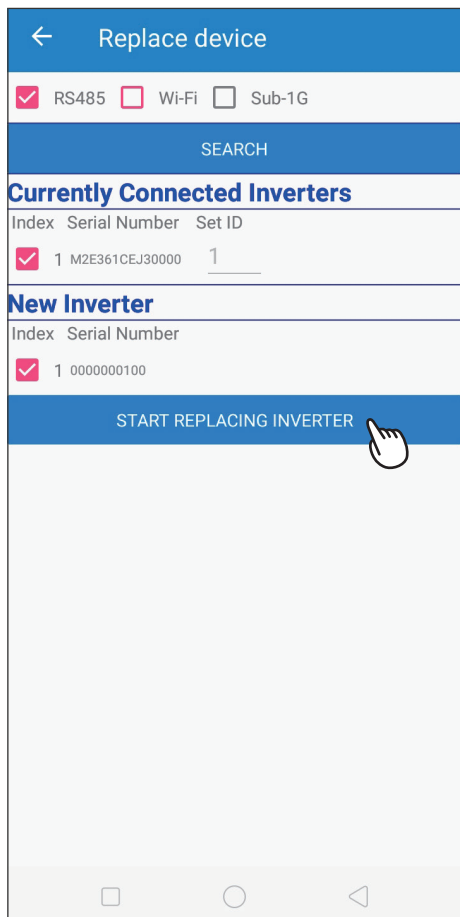
Please contact Delta local service for the password.



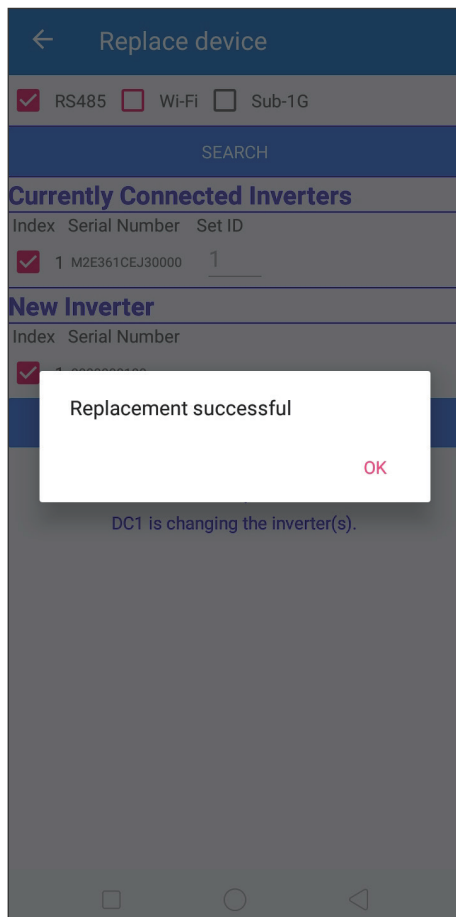
Select the connection method of DC1 and inverter then click "SEARCH".



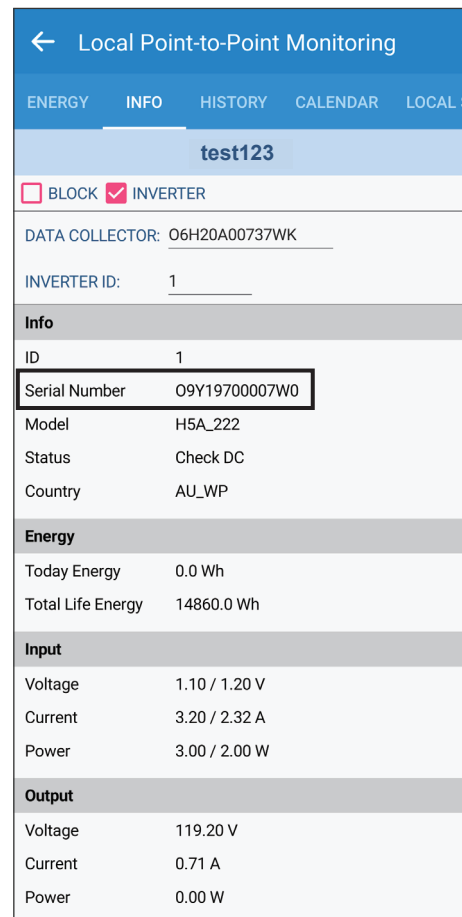
Select the both inverter that is going to replace, then click "START REPLACING INVERTER".



Replacement successful.



After replace complete, user can go to INFO page to check if the serial successfully been replaced.





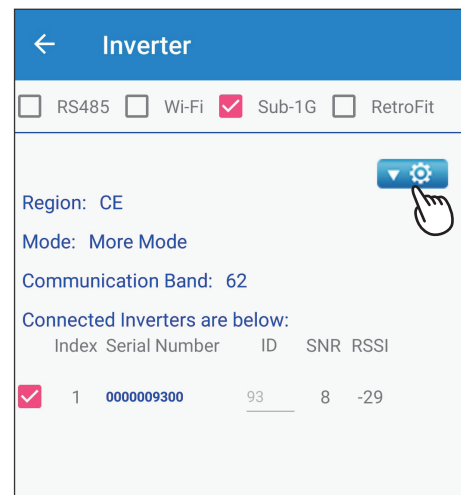
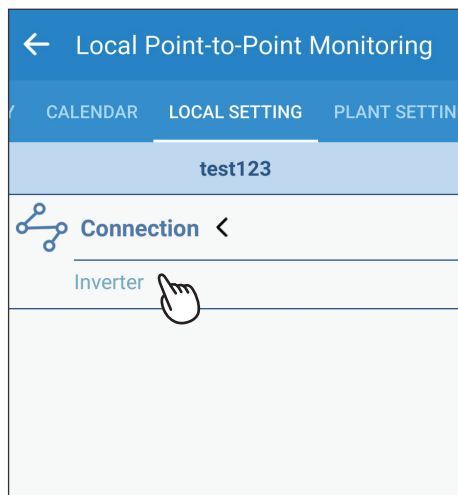
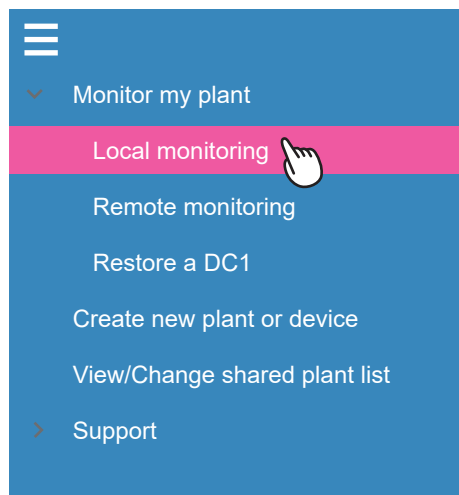
## 6.3. Add inverter

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

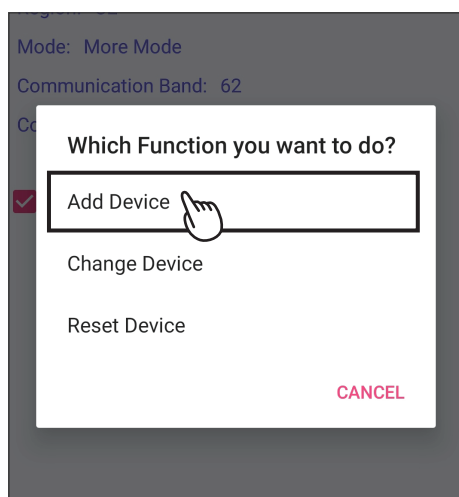
This process is to add inverter to DC1 with SUB\_1G communication.

LOCAL SETTING -> Connection  
-> Inverter

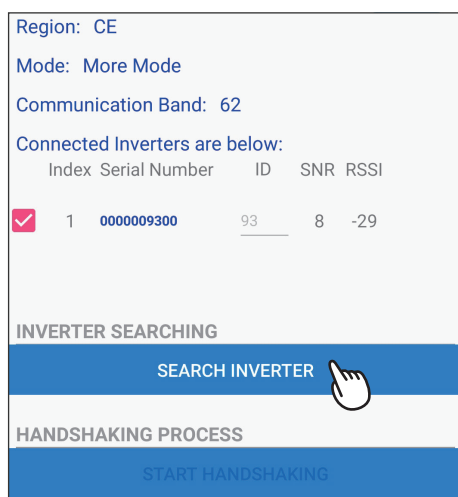
Click the Icon



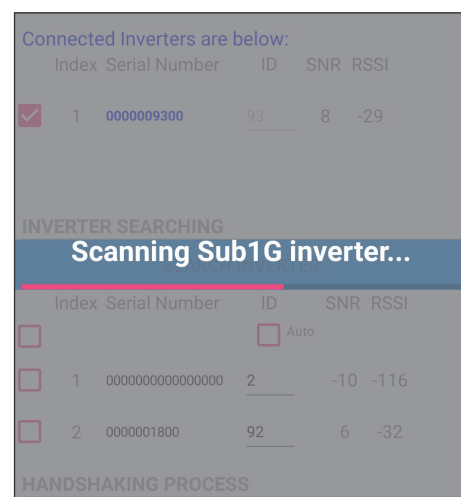
Click "Add Device".



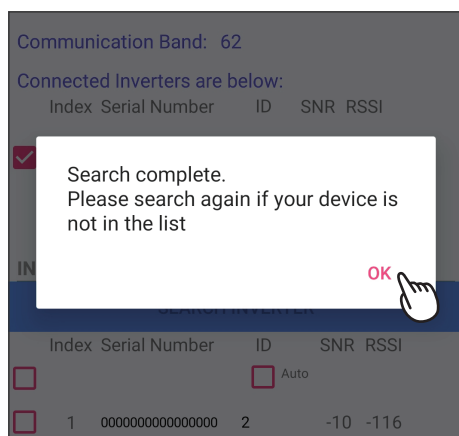
Click "SEARCH INVERTER".



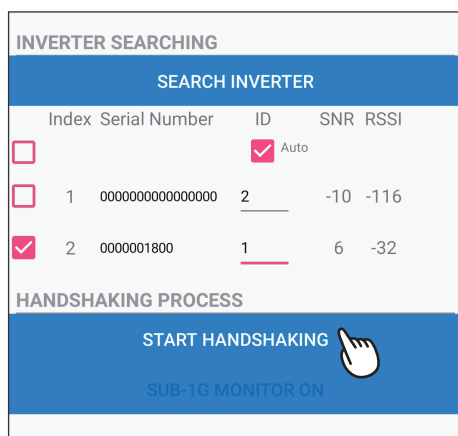
Scanning SUB-1G inverter...



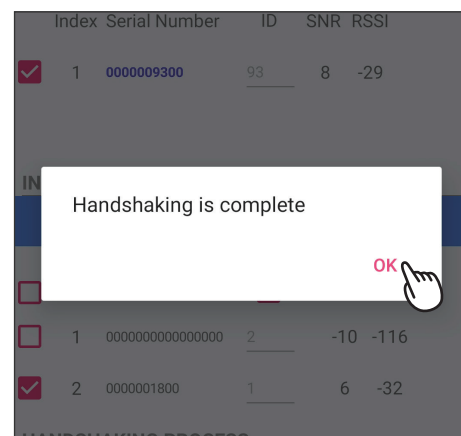
Click "OK".



Select the inverter serial number need to add into DC1.



Click "OK".



Click "SUB-1G MONITOR ON".

| Index                               | Serial Number | ID               | SNR | RSSI     |
|-------------------------------------|---------------|------------------|-----|----------|
| <input type="checkbox"/>            | 1             | 0000000000000000 | 2   | -10 -116 |
| <input checked="" type="checkbox"/> | 2             | 0000001800       | 1   | 6 -32    |

**HANDSHAKING PROCESS**

START HANDSHAKING

STEP1] Set ID success  
STEP2] Get information success  
STEP3] Time synchronization success

SUB-1G MONITOR ON

Click "OK".

Connection complete.

OK

APP will direct to grid setting page.

Directing to Grid-Setting Page...

OK

Confirm and modify the setting value.

Grid Setting

RELOAD

Select Inverter ID: 1

Selected inverter model: RPI-M88H

**Installation Settings**

Country: TAIWAN

SINGLE SET

SAME MODEL SET

Insulation Mode: ON

Insulation Resistance: 600 kΩ

RCMU: ON

EPO 1 (External power off): Normal Open

AC connection: 3P4W

Relay 1 (dry contacts): Disable

Relay 2 (dry contacts): Disable

Add inverter process complete.

Inverter

RS485 Wi-Fi ☒ Sub-1G RetroFit

Region: CE

Mode: More Mode

Communication Band: 62

**Connected Inverters are below:**

| Index                               | Serial Number | ID         | SNR | RSSI  |
|-------------------------------------|---------------|------------|-----|-------|
| <input checked="" type="checkbox"/> | 1             | 0000001800 | 1   | 7 -48 |
| <input checked="" type="checkbox"/> | 2             | 0000009300 | 93  | 8 -30 |

RELOAD

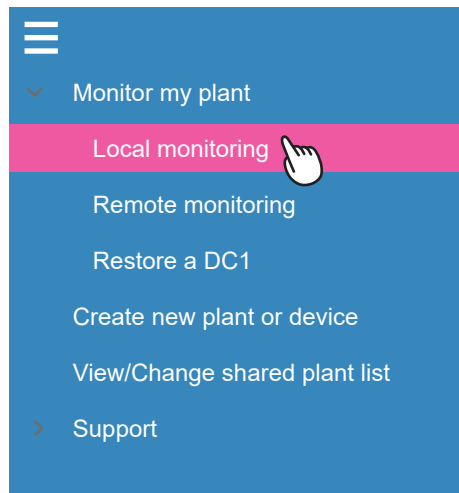
## 6.4. Back up DC1

### ATTENTION

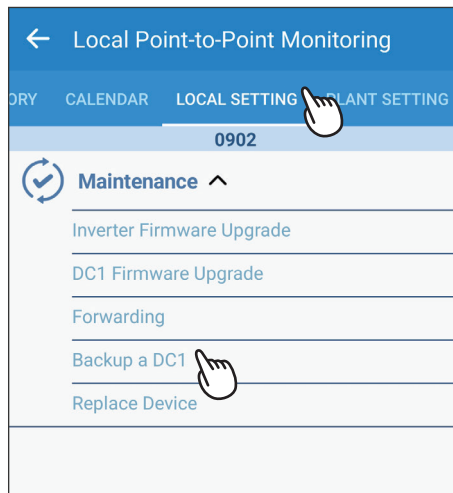


- USB stick is needed for backup function.
- User can refer chapter 4.2.3 for restore DC1 process.

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



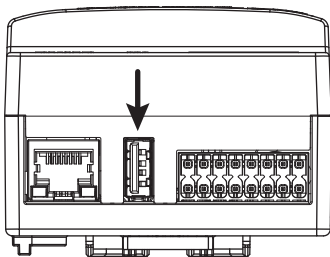
LOCAL SETTING -> Maintenance  
-> Backup a DC1



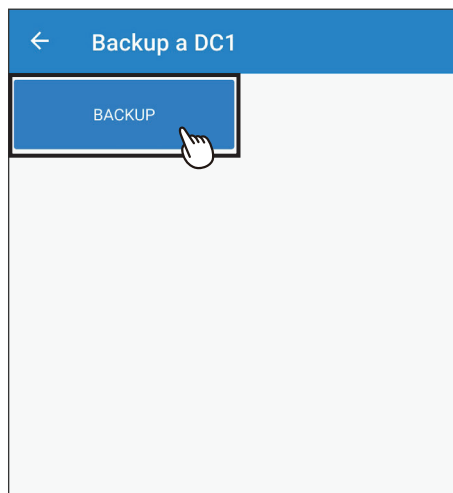
Please contact Delta local service for the password.



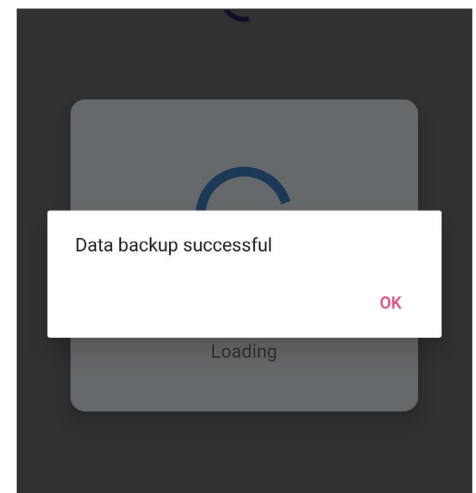
Connect the USB with DC1.



Click "BACKUP"



Backup success.



## 6.5. Reset DC1

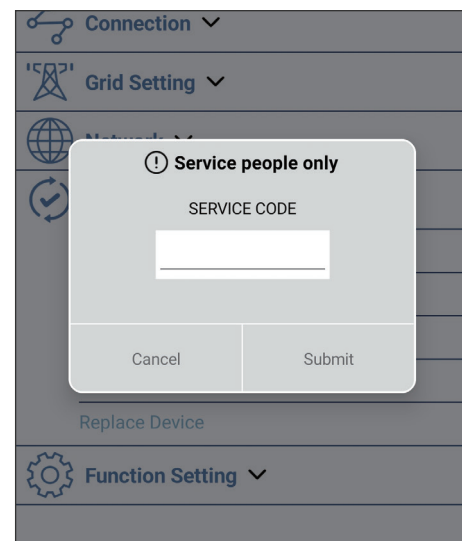
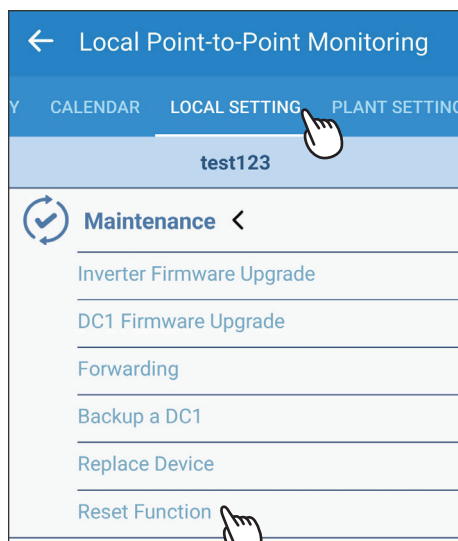
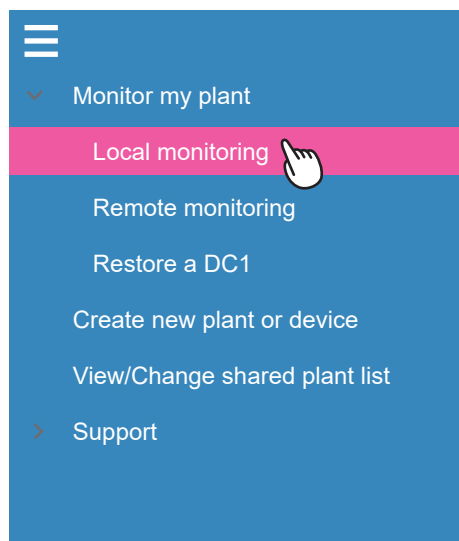
\* This function is only for Sub1G communication.

\* Please contact local service for the password.

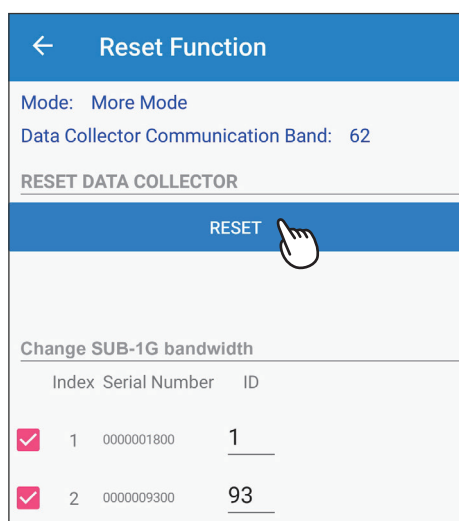
Click Menu-->Local monitoring, then select the plant need to do reset function for DC1.

LOCAL SETTING -> Maintenance -> Reset Function

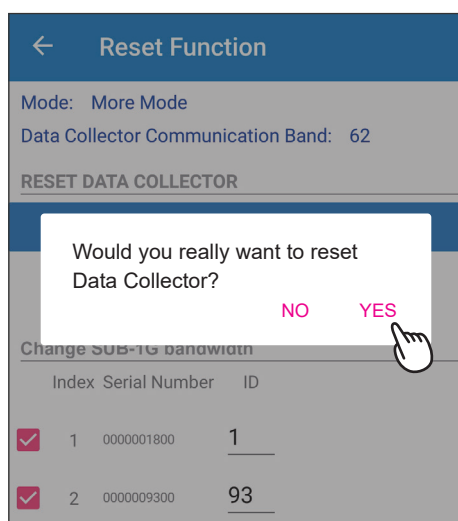
Please contact Delta local service for the password.



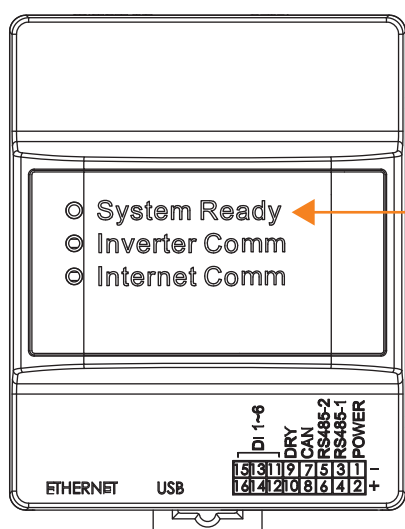
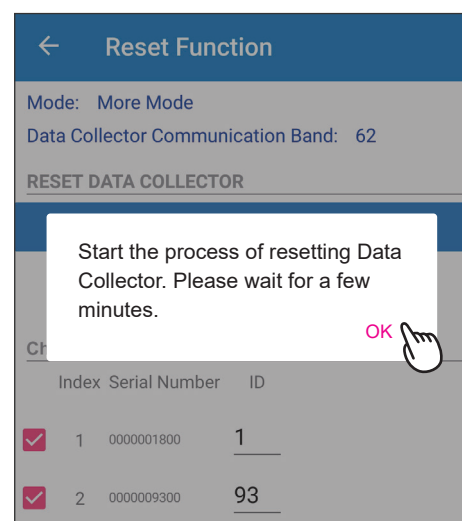
Click "RESET".



Click "YES".



Click "OK".



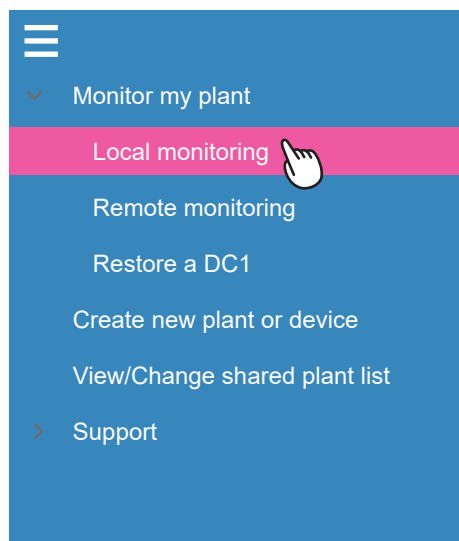
When reset done, "System ready" LED on DC1 will turn into red and go back to green after reboot.

## 6.6. Change SUB-1G bandwidth

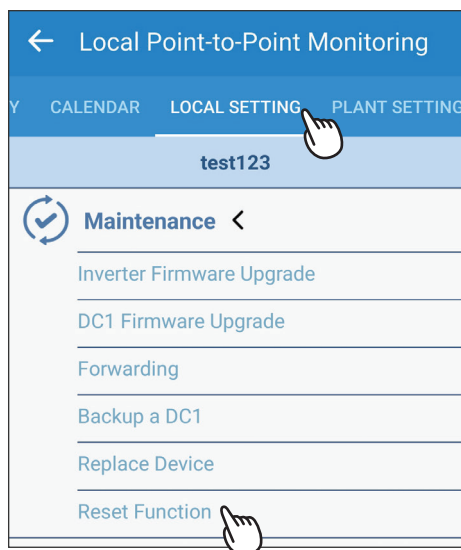
\* This function is only for Sub1G communication.

\* Please contact local service for the password.

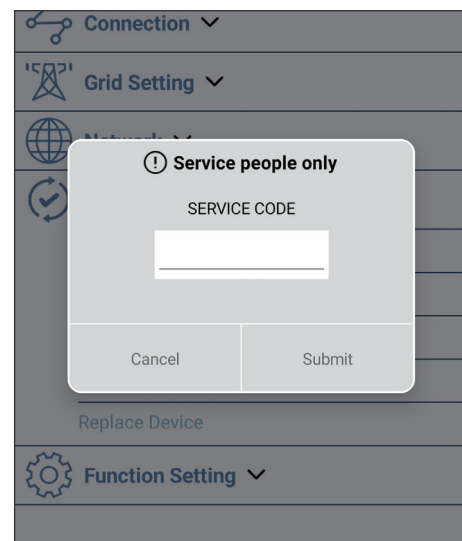
Click Menu-->Local monitoring, then select the plant need to change sub1G bandwidth.



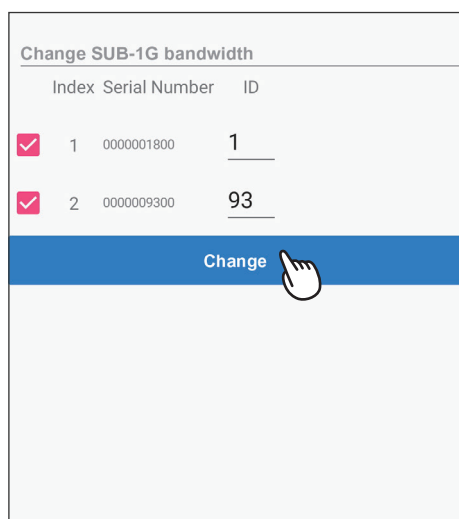
LOCAL SETTING -> Maintenance -> Reset Function



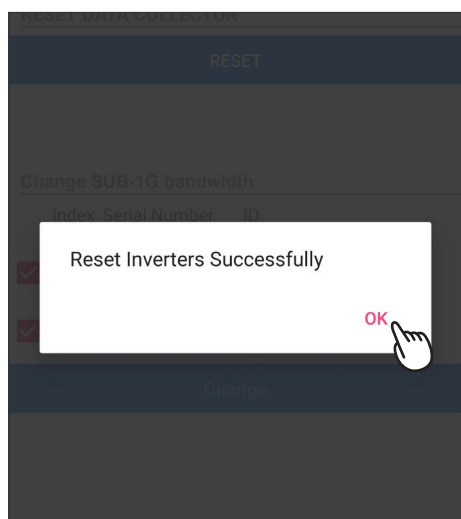
Please contact Delta local service for the password.



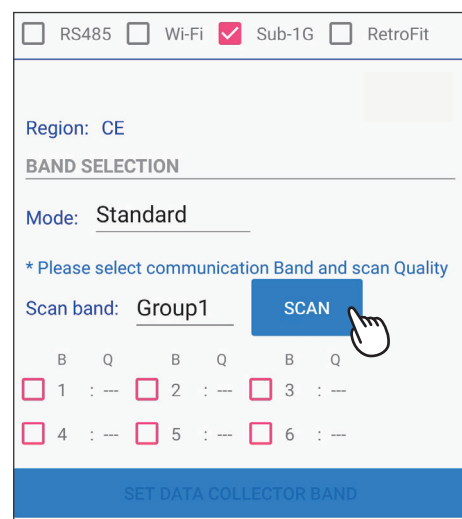
Click "Change"



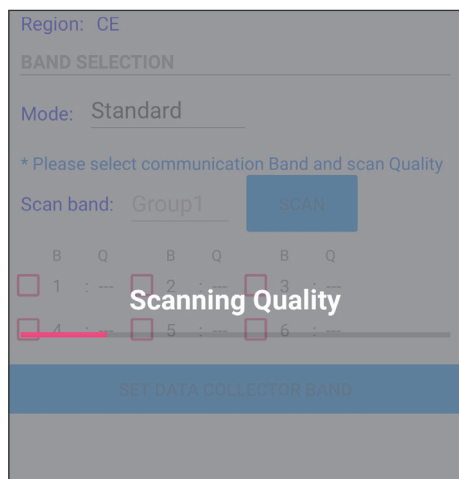
Click "OK".



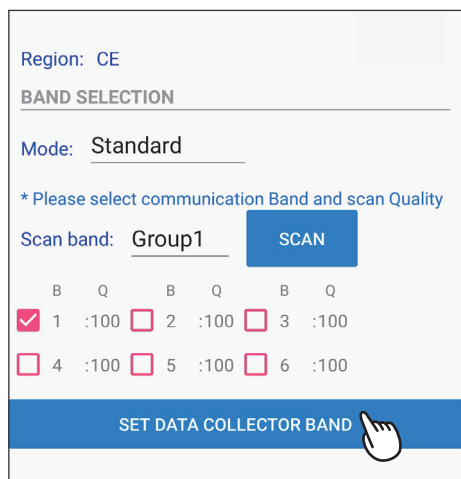
Select mode and "Scan band".



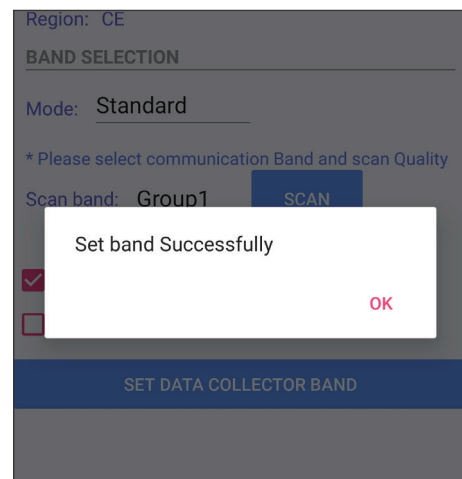
Scanning Quality



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



Set band Successfully.



Click “RECONNECT”.

←

Inverter

☐

RS485

☐

Wi-Fi

☒

Sub-1G

☐

RetroFit

Region: CE

BAND SELECTION

Mode: Standard

\* Please select communication Band and scan Quality

Scan band: Group1

SCAN

B

Q

☒

1

:100

☐

2

:100

☐

3

:100

☐

4

:100

☐

5

:100

☐

6

:100

SET DATA COLLECTOR BAND

Index

Serial Number

ID

☒

1

0000001800

1

☒

2

0000009300

93

RECONNECT

Click “OK”.

←

Inverter

☐

RS485

☐

Wi-Fi

☒

Sub-1G

☐

RetroFit

Region: CE

BAND SELECTION

Mode: Standard

\* Please select communication Band and scan Quality

Scan band: Group1

SCAN

B

Q

☐

1

:100

☐

2

:100

☐

3

:100

☐

4

:100

☐

5

:100

☐

6

:100

SET DATA COLLECTOR BAND

Index

Serial Number

ID

☒

1

0000001800

1

☒

2

0000009300

93

RECONNECT

Data Collector starts monitoring

OK

Change finished.

←

Inverter

☐

RS485

☐

Wi-Fi

☒

Sub-1G

☐

RetroFit

Region: CE

Mode: Standard

Communication Band: 2

Connected Inverters are below:

Index

Serial Number

ID

SNR

RSSI

☒

1

0000001800

1

7

-57

☒

2

0000009300

93

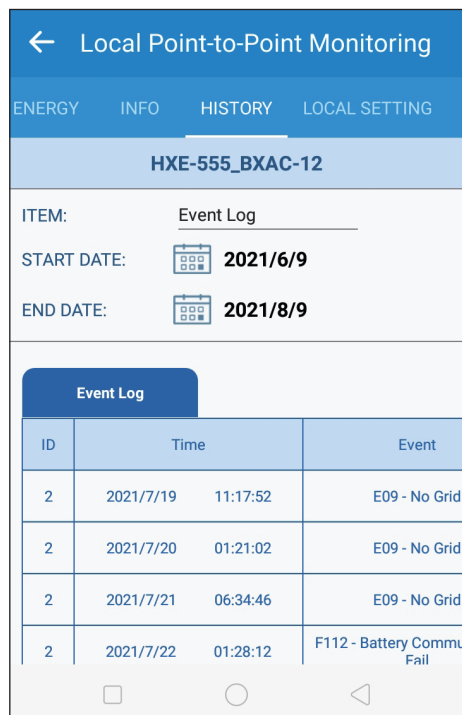
5

-17

# 7. Error Message and Trouble Shooting

## 7.1. Error Displays

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. Checking Step

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

### [Flex Inverter]

| Step | Item                                                                                                                                                                                                                                                                                                                                                                                                           |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Check and record the status of LED indicator.<br>=> 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.<br>=> Network page and click the status button, then take a screenshot.                                                                                                                                                                                                                                                                  |
| 3    | Check the network accessibility of the WiFi router.<br>=> Connect your smartphone to the same WiFi router applied by the inverter.<br>=> Use the web browser to surf "MyDeltaSolar webpage".                                                                                                                                                                                                                   |
| 4    | Reboot the WiFi router and check if the inverter reconnect to the router.<br>=> Record the status of the inverter WiFi LED indicator on the inverter after 5mins the WiFi router reboot.<br>=> Check the SSID of the Inverter from the WiFi setting page of the mobile phone.<br>=> There will be an extra number at the end of the SSID if the inverter connected to the router. (ex: OXYxxxxxxxx -1 )        |
| 5    | Reboot the inverter and check if the inverter reconnect to the router.<br>=> 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.<br>=> Check the SSID of the Inverter from the WiFi setting page of the mobile phone.<br>=> There will be an extra number at the end of the SSID if the inverter connected to the router. (ex: OXYxxxxxxxx -1 ) |
| 6    | Check the Comm FW version on the Inverter.<br>=> If the Comm FW is not the latest version, please upgrade the FW.                                                                                                                                                                                                                                                                                              |
| 7    | Check if the inverter reconnect to the router.                                                                                                                                                                                                                                                                                                                                                                 |

## [Flex with the DC1]

| Step | Item                                                                                                                                                                                                                                                                                  |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Check and record the status of LED indicator. (both inverters and DC1)<br>=> Record the status of all the three LED indicators(color and status of blinking)                                                                                                                          |
| 2    | Connect your mobile phone to the DC1.<br>=> Check if the DC1 can be connected.                                                                                                                                                                                                        |
| 3    | Create a WiFi hotspot with your mobile phone to simulate WiFi of DC1.<br>=> Power off the DC1.<br>=> Set the SSID and password of the hotspot to be exactly the same with DC1.<br>=> 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)<br>=> 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.<br>=> 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.                                                                                                                                                                                                     |

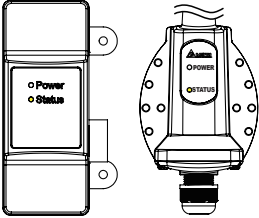
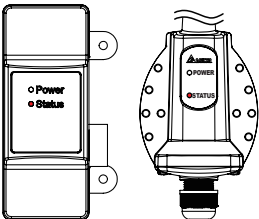
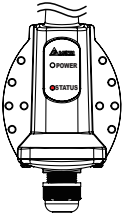
## [DC1 with the cloud]

| Step | Item                                                                                                                                                                                            |
|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1    | Check and record the status of LED indicator of DC1.<br>=> Record the status of all the three LED indicators. (color and status of blinking)                                                    |
| 2    | Check the network accessibility of the WiFi router.<br>=> Connect your smartphone to the same WiFi router applied by the inverter.<br>=> Use the web browser to connect "MyDeltaSolar webpage". |
| 3    | Check the LED indicator of internet Comm on the DC1.<br>=> make sure mobile device is not connected to the DC1.<br>=> 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.<br>=> check the WiFi strength of the related wifi router.                                                                                      |
| 5    | Reboot DC1. (power off and power on)<br>=> 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.                                                                                                                            |



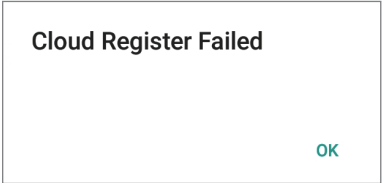
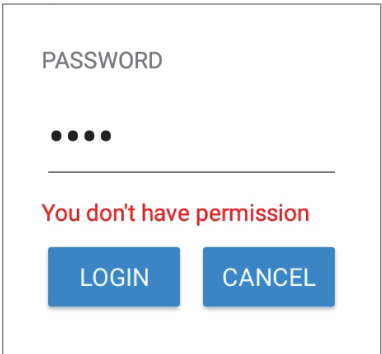
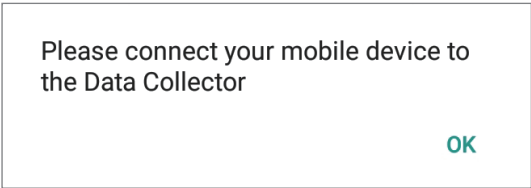
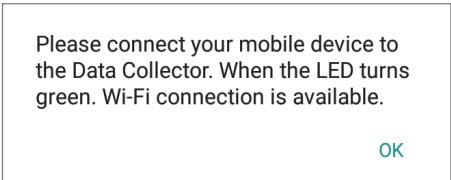
## 6.3. Troubleshooting

Responsive actions that should be taken in cases where the following symptoms occur are described.

| Symptom                                                                                                                                                                       | Verification details                                                     | Responsive action                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
|  <p>System ready light is red</p>                                                            | DC1 is booting                                                           | Please wait two minutes for the boot to complete.                                                      |
|  <p>Inverter comm light is continuously <b>flashing</b> green light</p>                      | DC1 is Searching or Setting inverters.                                   | Please wait for 2-10 minutes for Inverter to search or set up.                                         |
|  <p>Internet light constant</p>                                                             | DC1 does not connect to internet                                         | Please go to the NETWORK page to set network. please refer to section 4.7.                             |
|  <p>The LED Light of 'Status' flashes slow and changing color between green and yellow</p> | N1 does not connect to Data Collector<br>N2 does not connect to Inverter | Please confirm if N1 is assembled with Data Collector/<br>Please confirm if N2 is adapted to Inverter. |
|  <p>The LED Light of 'Status' turns red and slow flashing</p>                              | N1 or N2 is booting                                                      | Please wait a minutes for the boot to complete.                                                        |
|  <p>The LED Light of 'Status' turns red and fast flashing</p>                              | Internal wireless module is abnormal.                                    | Please contact customer service.                                                                       |

## 6.4. 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.                                                                                                                                                                                                                                                                                    |
| <br> | User is not connected to DC1            | Please go to the smartphone WI-FI page and reconnect to DC1.                                                                                                                                                                                                                                                                     |

| Error indication                                                                                 | Contents                                             | Workaround                                                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div> <div>Search Wi-Fi failed</div> <div>OK</div> </div>                                        | DC1 scan Inverter fail                               | DC1 may have a short weak signal. Please retry the scan.                                                                                                                                                                           |
| <div> <div>Please make sure N1 is correctly adapted to Data Collector</div> <div>OK</div> </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> <div>Scan Quality failed</div> <div>OK</div> </div>                                        | Scanning the quality of communication band is failed | <p>Please confirm the LED light color of 'Status'.</p> <p>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.</p> |

