



The power behind competitiveness

MyDeltaSolar Application

Operation Manual

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1 .MyDeltaSolar

1.1.Download



MyDeltaSolar

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



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Android

Where can search for MyDeltaSolar APP?

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



About OS version

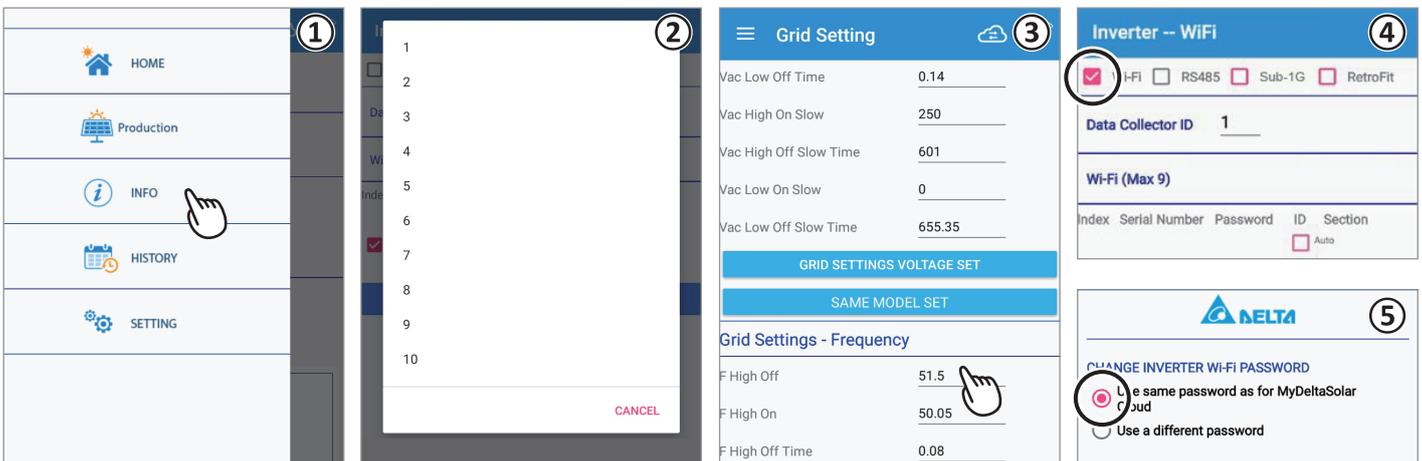
iOS: 8.0 and above
Android OS: Android 5.0 and above

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.)

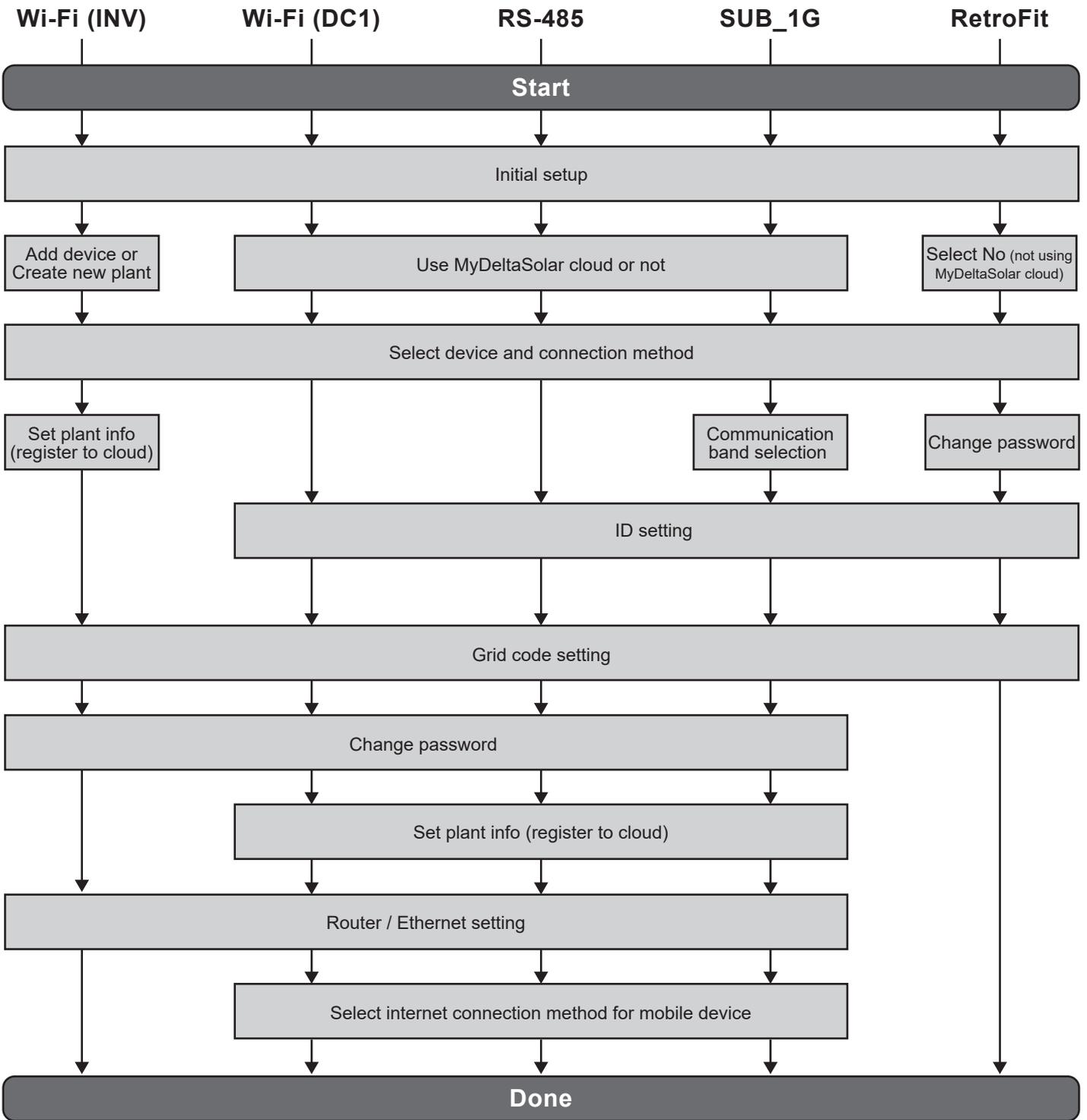
④ Check box

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.

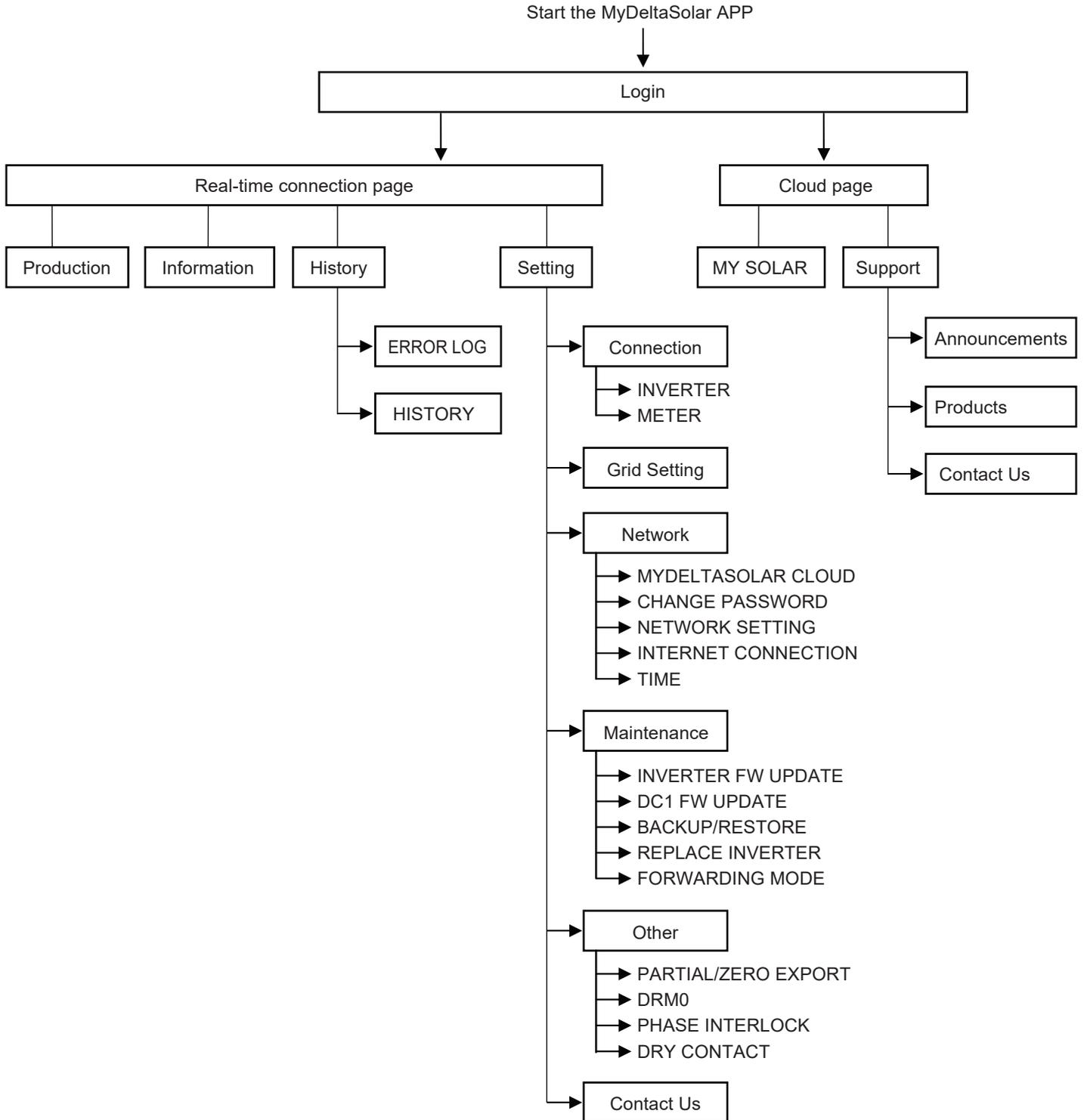
1.3.Workflow



1.4. System structure

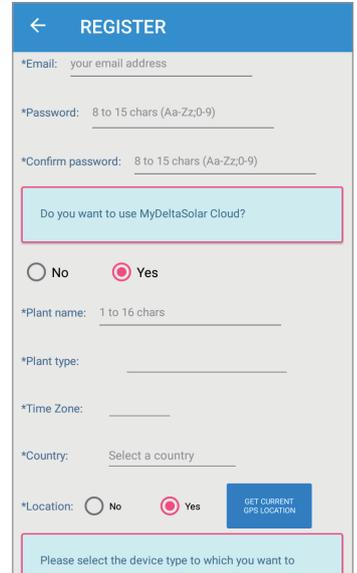
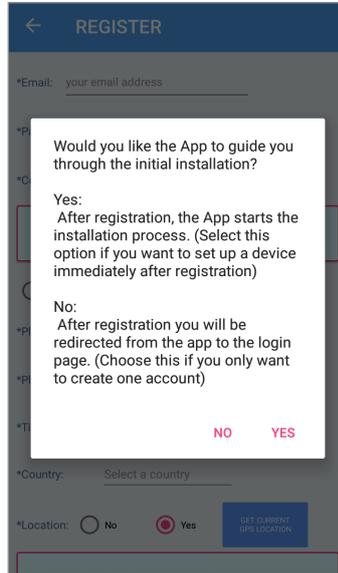
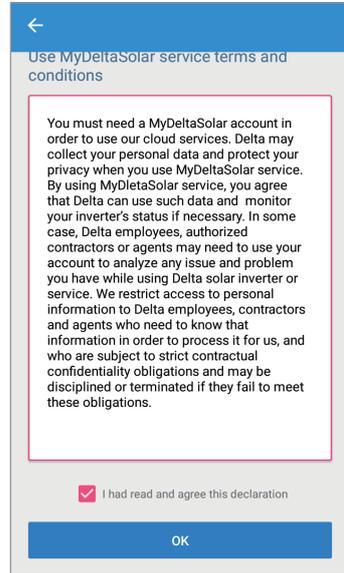
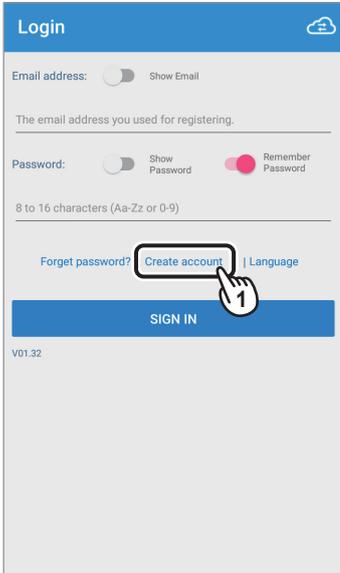
The following figure shows the APP operation flow structure. For detailed screen content, please refer to **Chapter 4**.

■ List of APP Pages



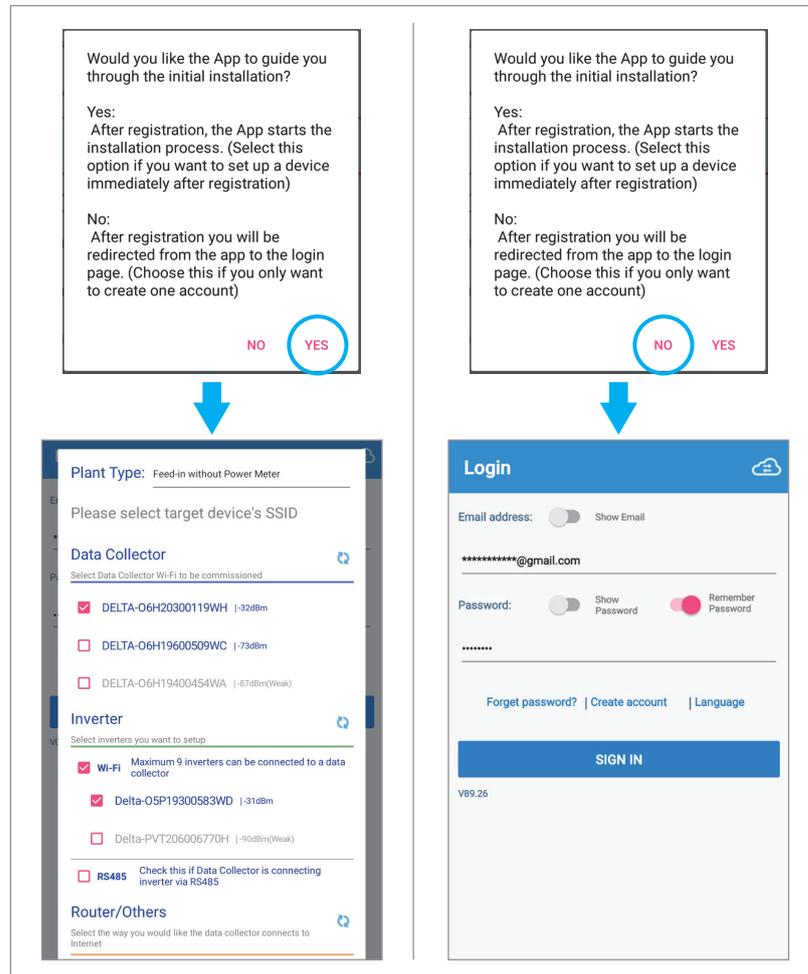
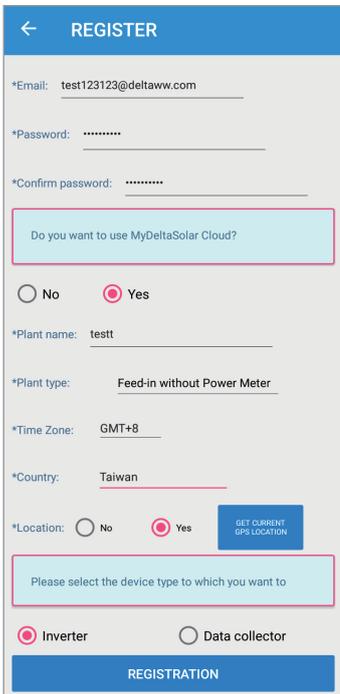
1.5. Create account

1. Start the APP, click "Create account" for first use.
2. Check to agree declaration and click "OK" to continue.
3. After registered an account, click "YES" to do device initial setting, or "NO" just done the registration.
4. Enter the registration page.



5. Fill in the information and click "REGISTRATION".

6. If click "YES" in step 3, APP will lead to set internet connection. If click "No" in step 3, APP will go back to login page.

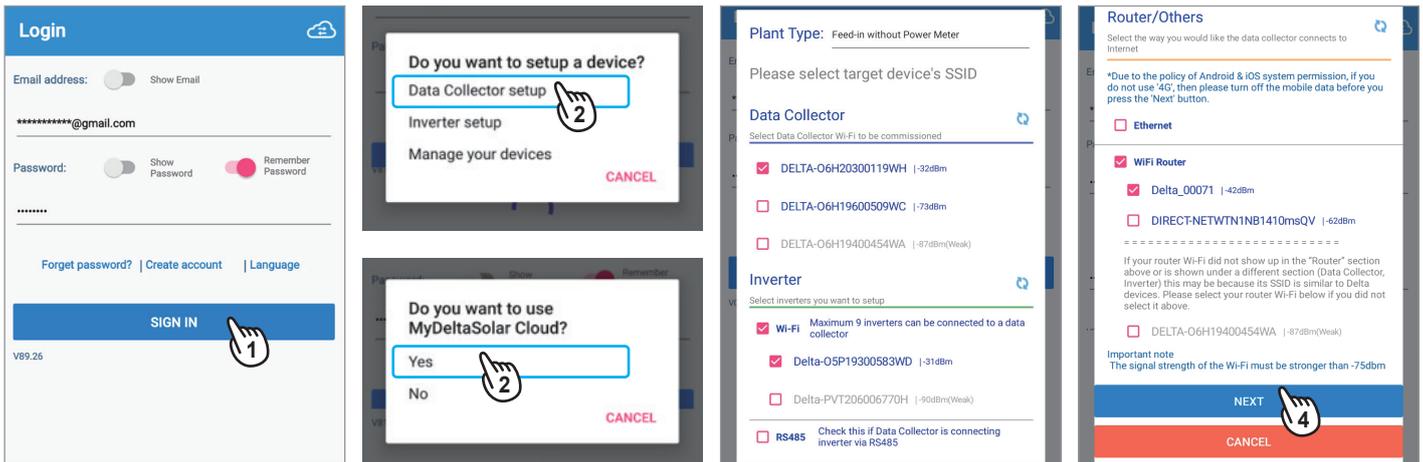


2. Commissioning

2.1. Wi-Fi commission - Data Collector

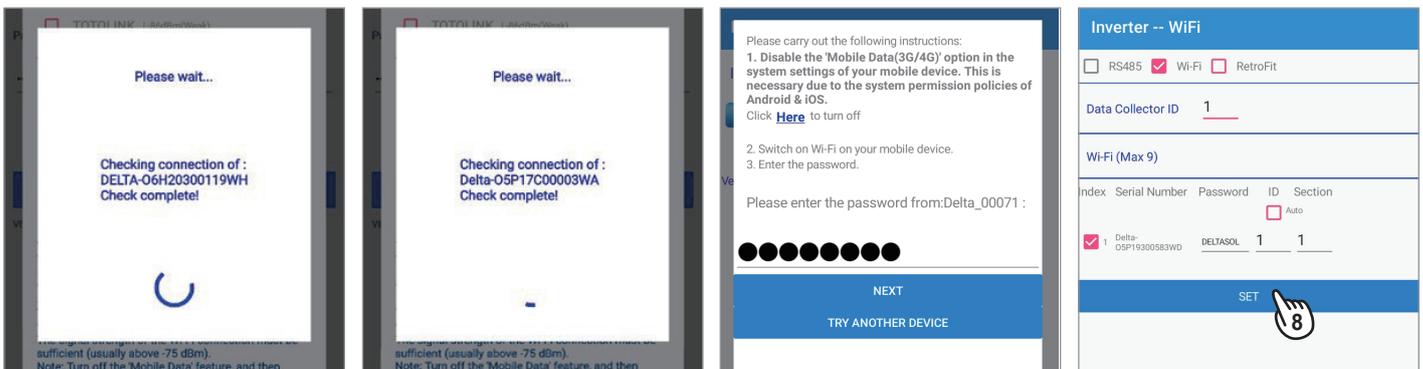
Please refer to the steps below to setup the data collector (DC1) via Wi-Fi.

1. Enter email address, password and click "SIGN IN".
2. Click "Data Collector setup" and choose "Yes" for MyDeltaSolar Cloud using.
3. Select plant type, serial number of DC1 and inverter, also select DC1 connection.
4. Click "NEXT" to proceed.

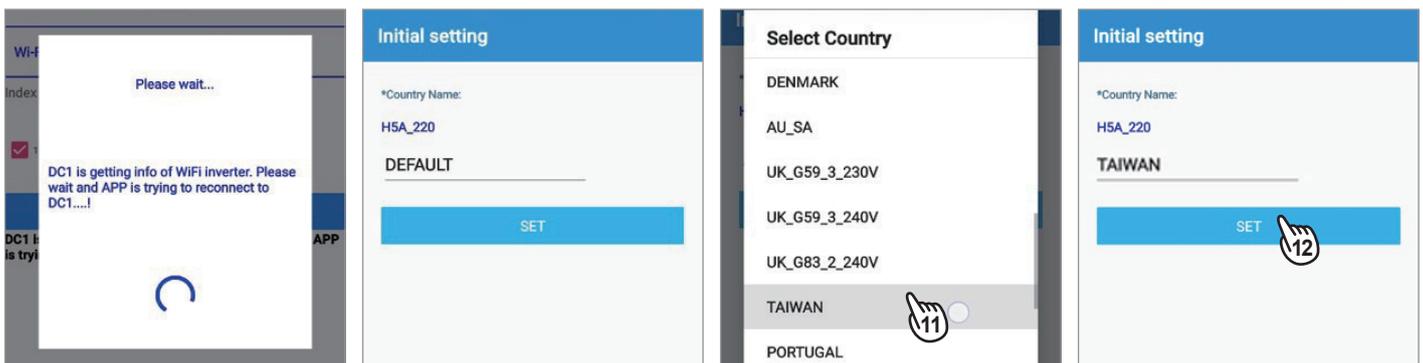


5. APP will check connection of DC1.
6. APP will check connection of inverter.
7. APP will check connection of Wi-Fi router.
8. APP will lead to connection page, set ID and click "SET" to proceed.

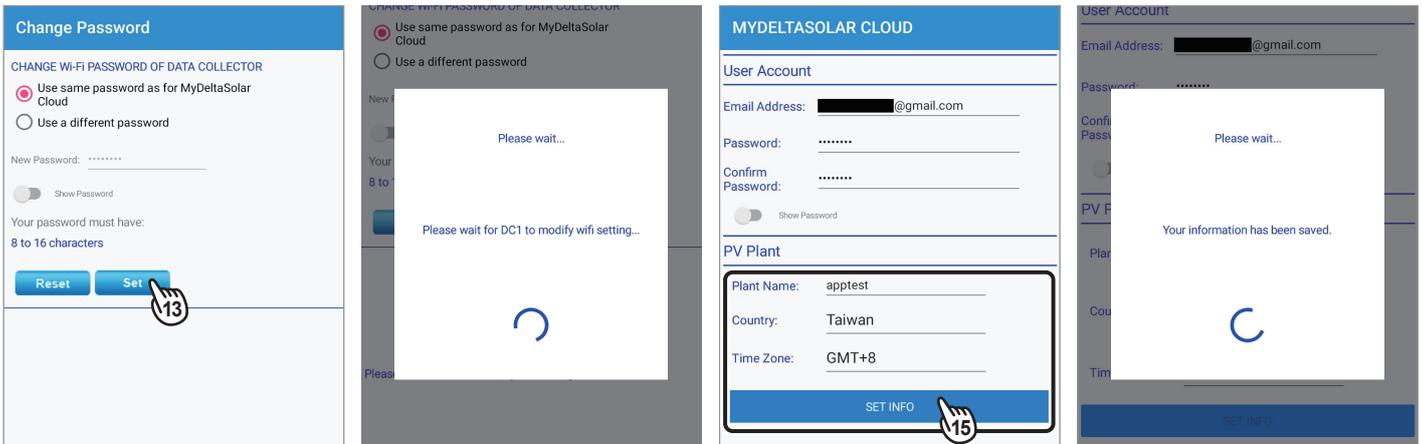
! In step 5~7, APP will request password if the device has not accessed the password.



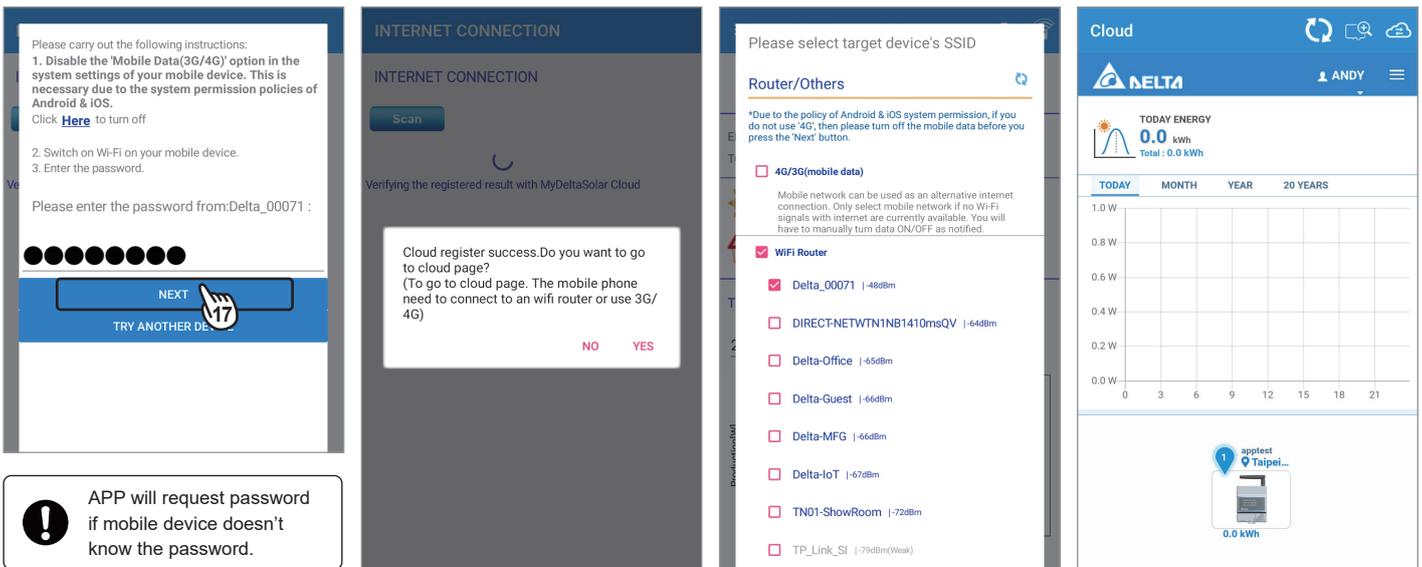
9. APP will do the connection process for DC1 and inverter.
10. After connection succeeded, APP will lead to grid code setting page.
11. Select proper grid code for the inverter.
12. Click "SET" to continue.



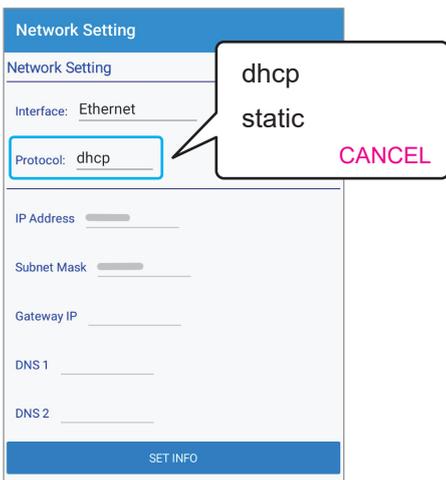
- Change DC1 password and click "Set".
- Wait for DC1 to modify Wi-Fi setting.
- Fill in the plant information and click "SET INFO".
- Wait few seconds to save the information.



- (Take Wi-Fi as example) APP will ask if the device will use the same router to connect internet, type in the password and click "NEXT" to proceed. (If select "Ethernet", please refer to the detail description at bottom of this page.)
- Cloud registration succeed. (If select "No", APP will keep connecting to device not to Cloud.)
- To go to Cloud page, mobile device need to connect to internet via Wi-Fi or mobile data.
- APP will lead to Cloud page.



(Select "Ethernet" at step 17)



dhcp

System will automatically assign an IP address.

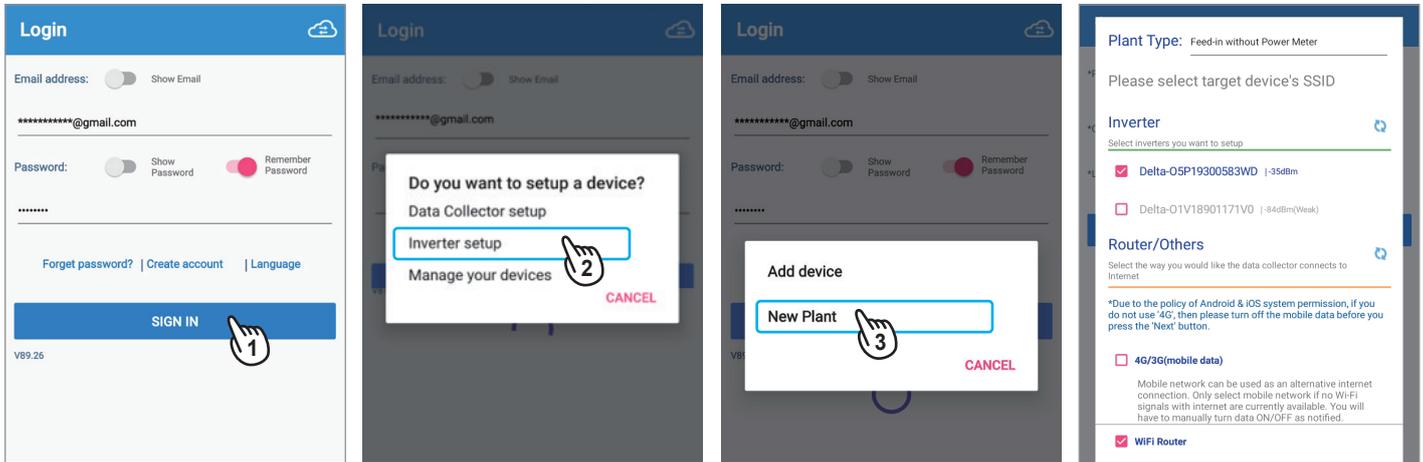
static

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

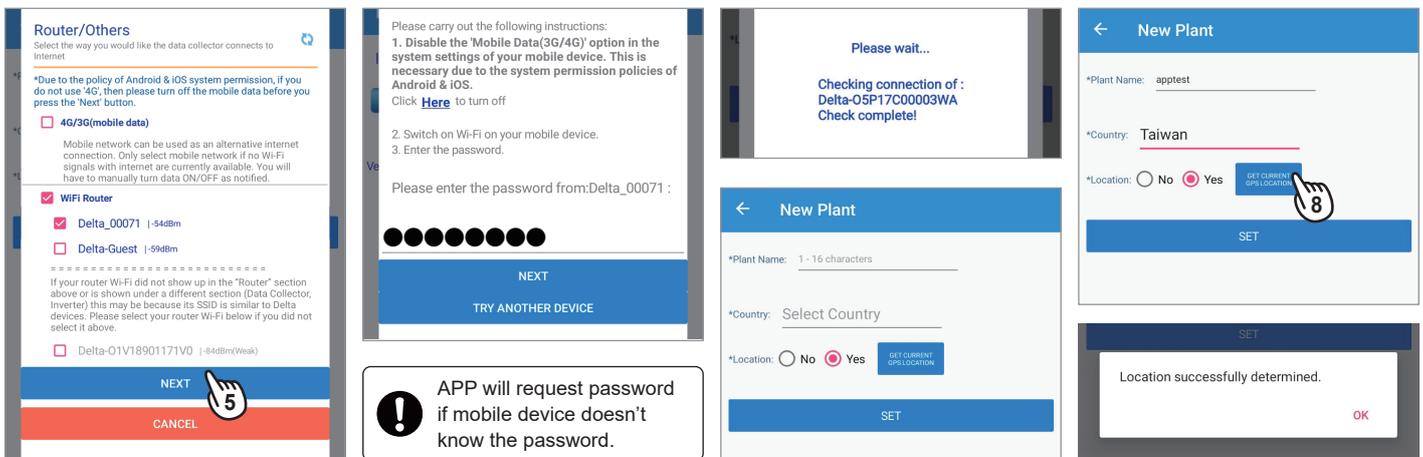
2.2.Wi-Fi commission process - Inverter

Please refer to the steps below to setup the Wi-Fi inverter.

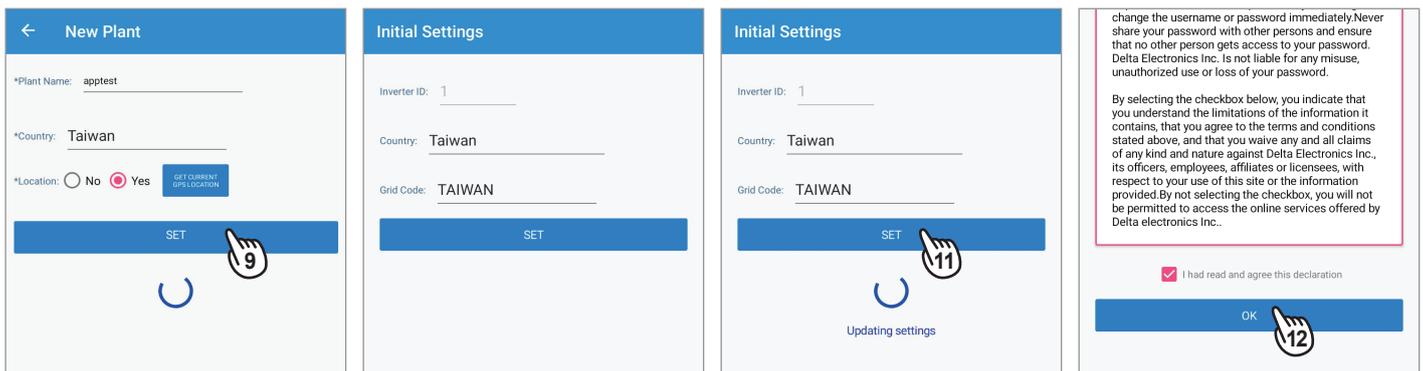
1. Enter email address, password and click "SIGN IN".
2. Click "Inverter setup" to start the initial setting.
3. Select "New Plant" to create a new plant. (If you already have plant on cloud, click "Add device" can add to specified plant.)
4. Select plant type, serial number of inverter, also select Wi-Fi router for internet connection.



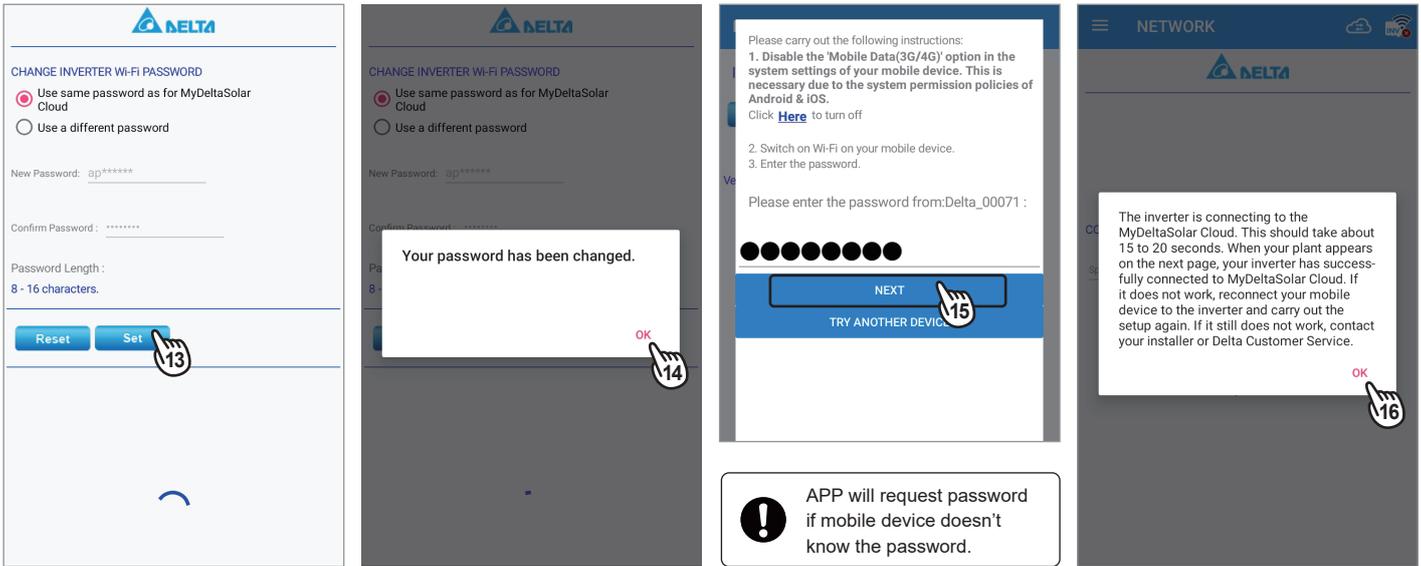
5. Click "NEXT" to continue.
6. APP will check connection of inverter and Wi-Fi router.
7. Set plant name and select country.
8. Click "GET CURRENT GPS LOCATION" to get GPS location of the inverter.



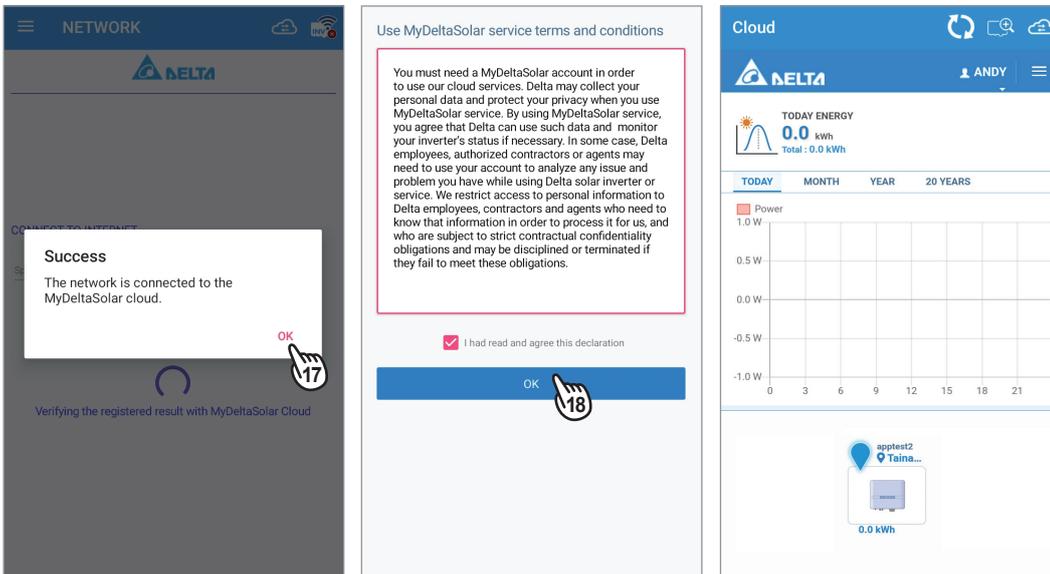
9. Click "SET" to continue.
10. Select proper grid code of the inverter.
11. Click "SET" to continue.
12. Check the check box and click "OK" to confirm the announcement.



13. Change password of the inverter and click "Set".
14. Click "OK" to continue.
15. APP will ask if the device will use the same router to connect internet, type in the password and click "NEXT" to proceed.
16. Please wait for registration to cloud.



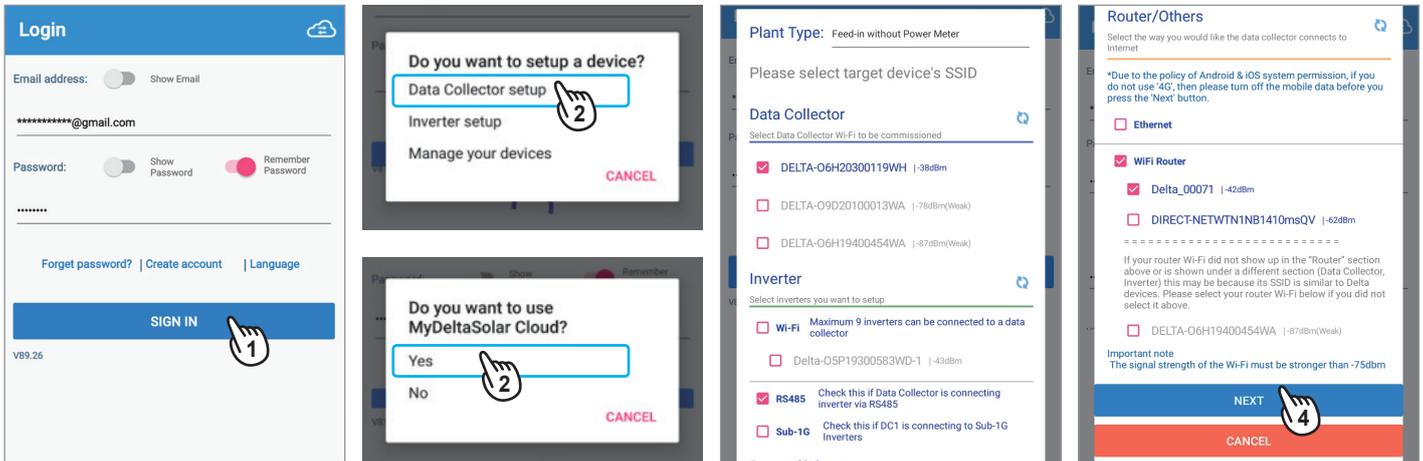
17. Registration succeeded, click "OK" to continue.
18. Check the check box and click "OK" to confirm the announcement.
19. APP will lead to Cloud page.



2.3.RS-485 commission process

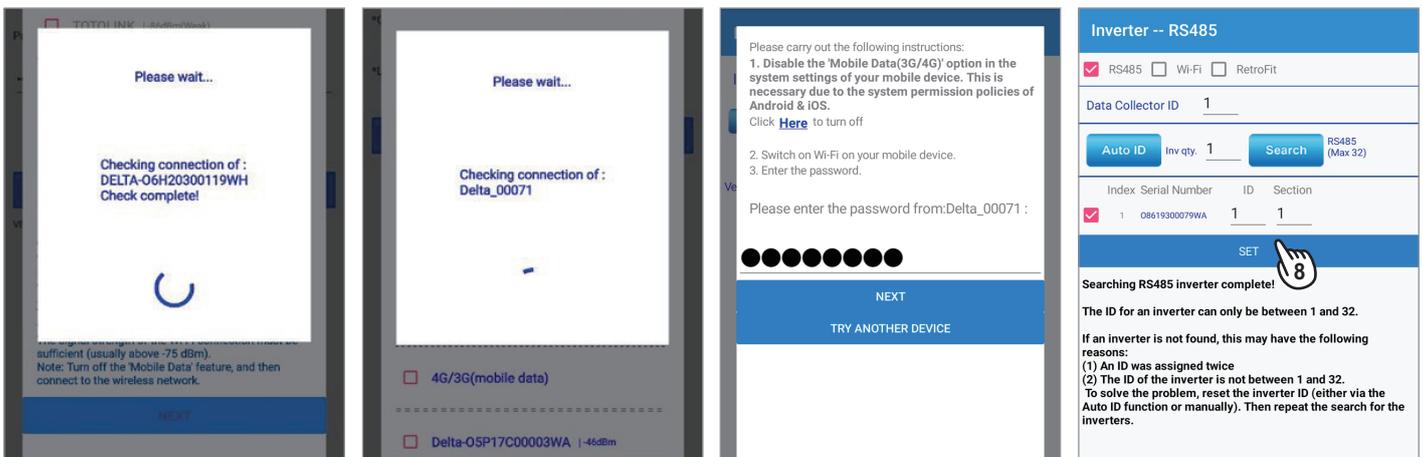
Please refer to the steps below to setup the data collector (DC1) and inverter via RS-485.

1. Enter email address, password and click "SIGN IN".
2. Click "Data Collector setup" and choose "Yes" for MyDeltaSolar Cloud using.
3. Select plant type, serial number of DC1, also select RS-485 for inverter connection.
4. Select internet connection and click "NEXT".

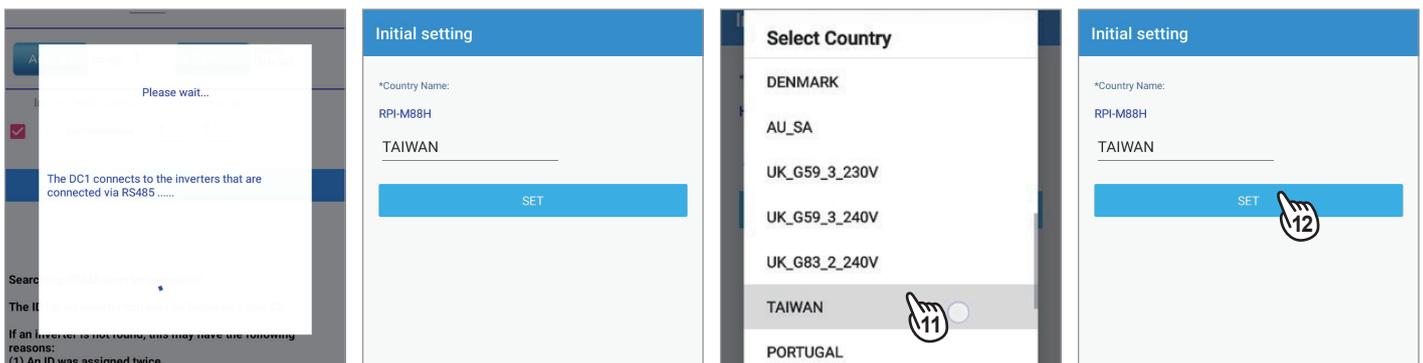


5. APP will check connection of DC1.
6. APP will check connection of inverter.
7. APP will check connection of Wi-Fi router.
8. APP will lead to connection page, set ID and click "SET" to proceed.

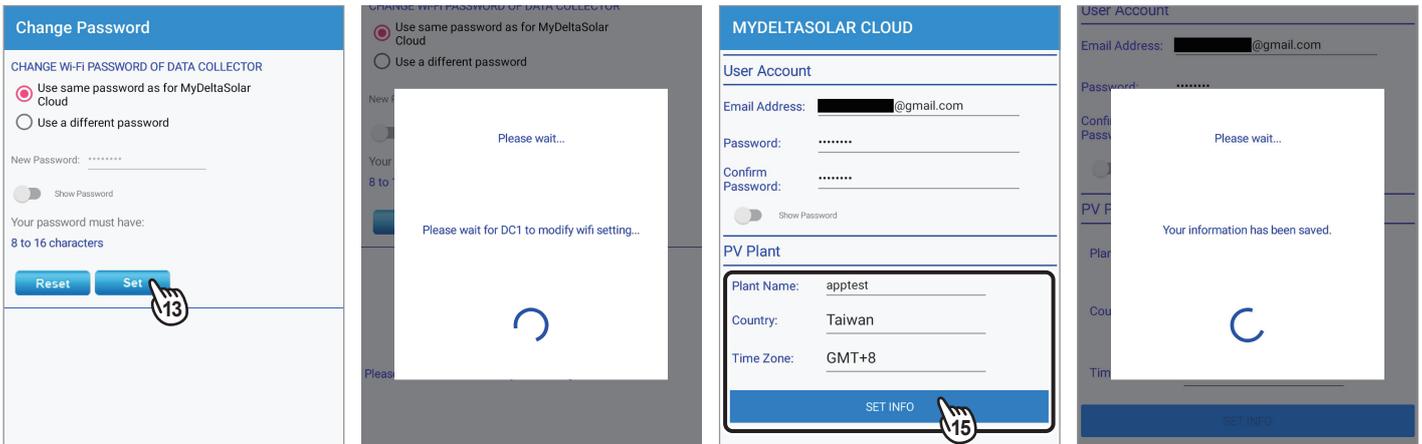
! In step 5~7, APP will request password if mobile device doesn't know the password.



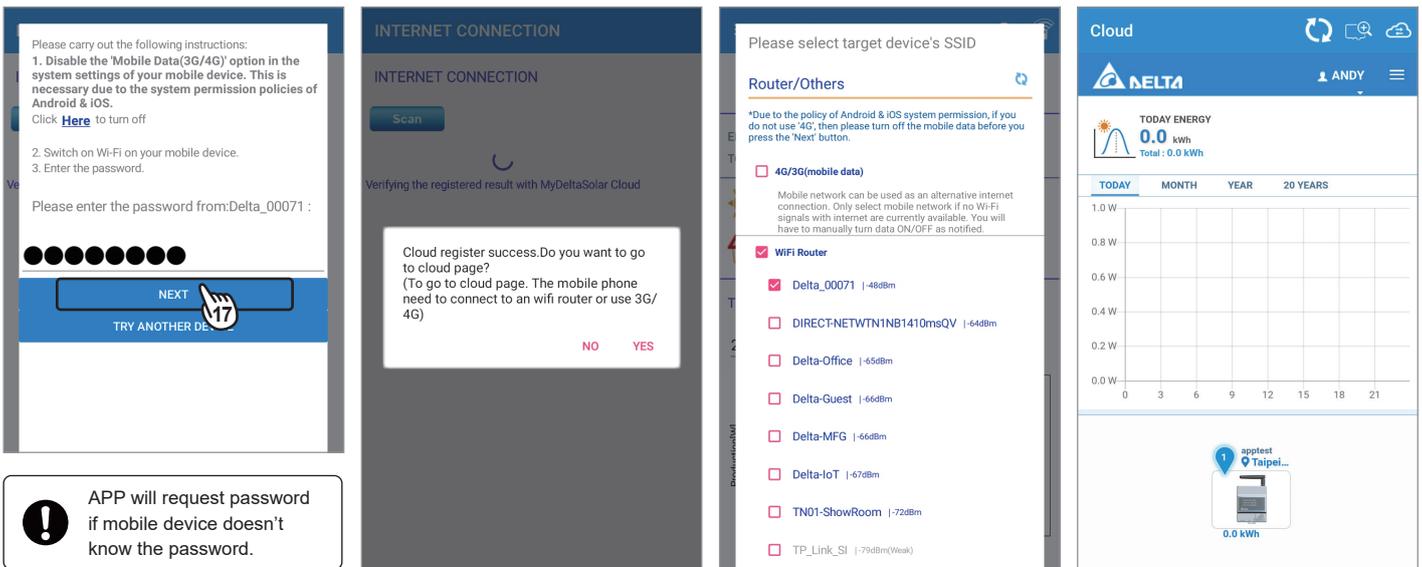
9. APP will do the connection process for DC1 and inverter.
10. After connection succeeded, APP will lead to grid code setting page.
11. Select proper grid code for the inverter.
12. Click "SET" to continue.



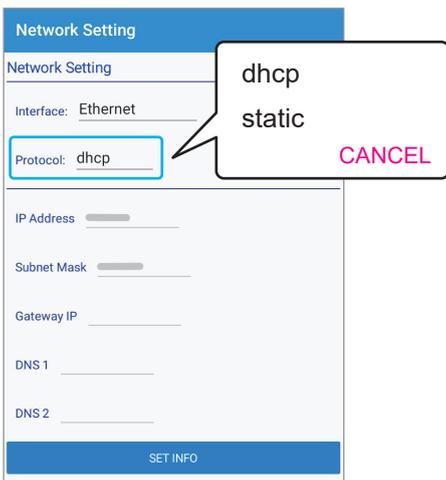
13. Change DC1 password and click "Set".
14. Wait for DC1 to modify Wi-Fi setting.
15. Fill in the plant information and click "SET INFO".
16. Wait few seconds to save the information.



17. (Take Wi-Fi as example) APP will ask if the device will use the same router to connect internet, type in the password and click "NEXT" to proceed. (If select "Ethernet", please refer to the detail description at bottom of this page.)
18. Cloud registration succeed. (If select "No", APP will keep connecting to device not to Cloud.)
19. To go to Cloud page, mobile device need to connect to internet via Wi-Fi or mobile data.
20. APP will lead to Cloud page.



(Select "Ethernet" at step 17)



dhcp

System will automatically assign an IP address.

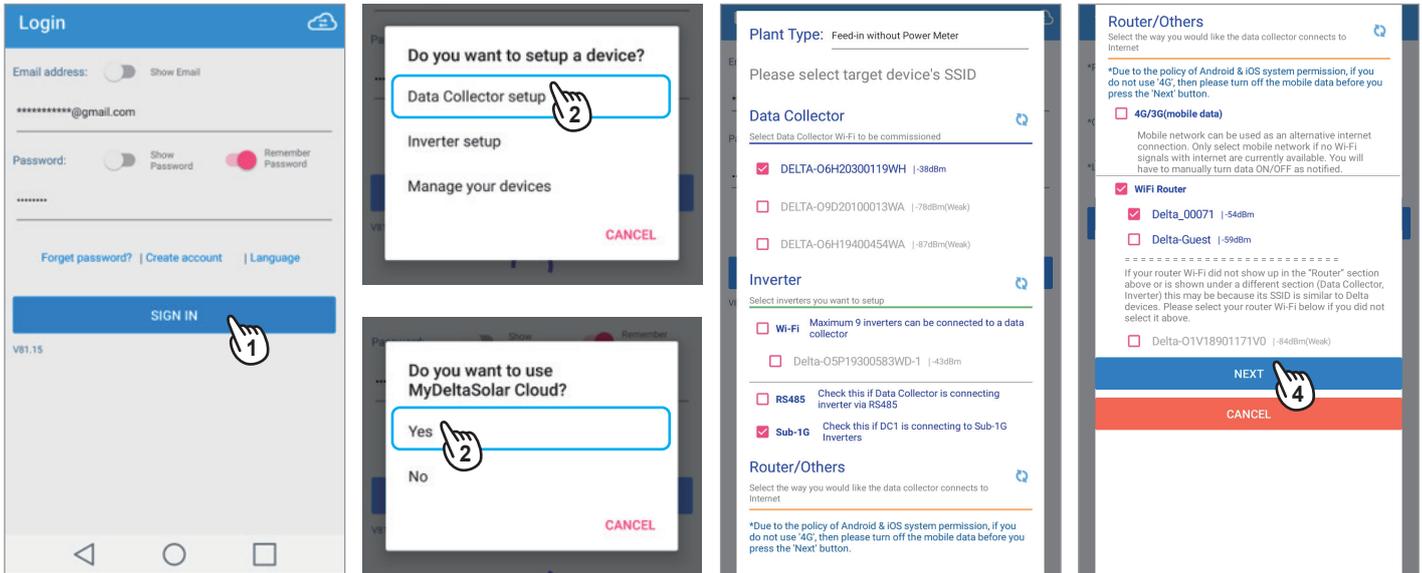
static

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.

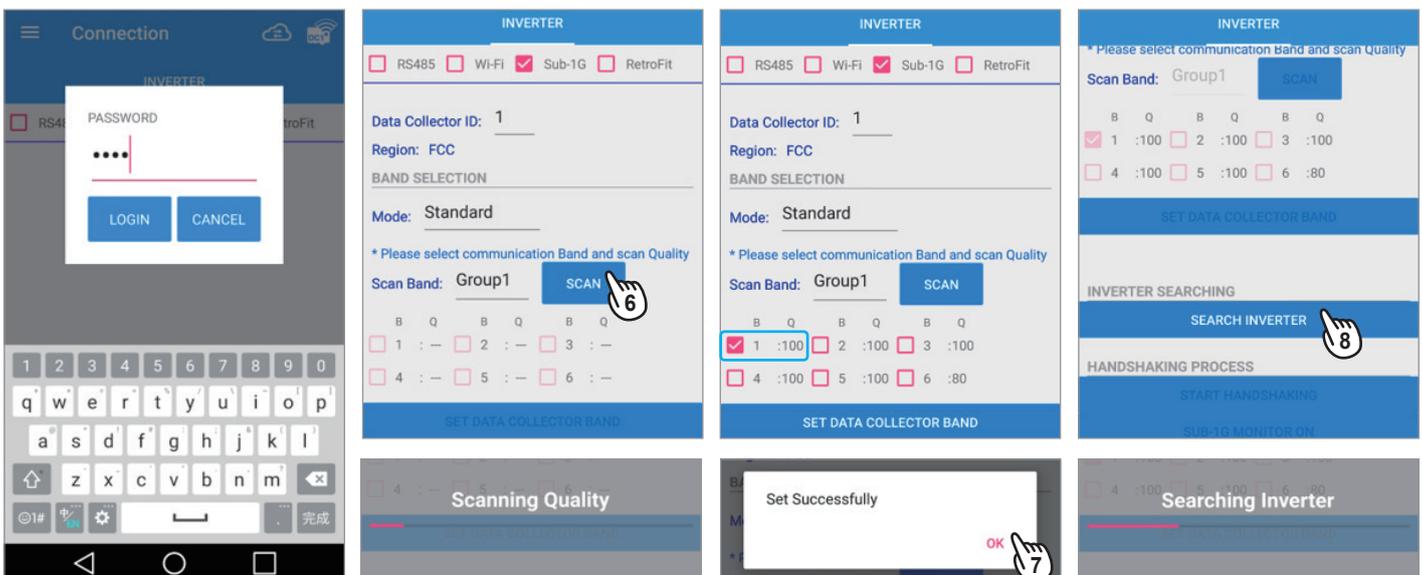
2.4.Sub-1G commission process

Please refer to the steps below to setup the data collector (DC1) and inverter via Sub-1G.

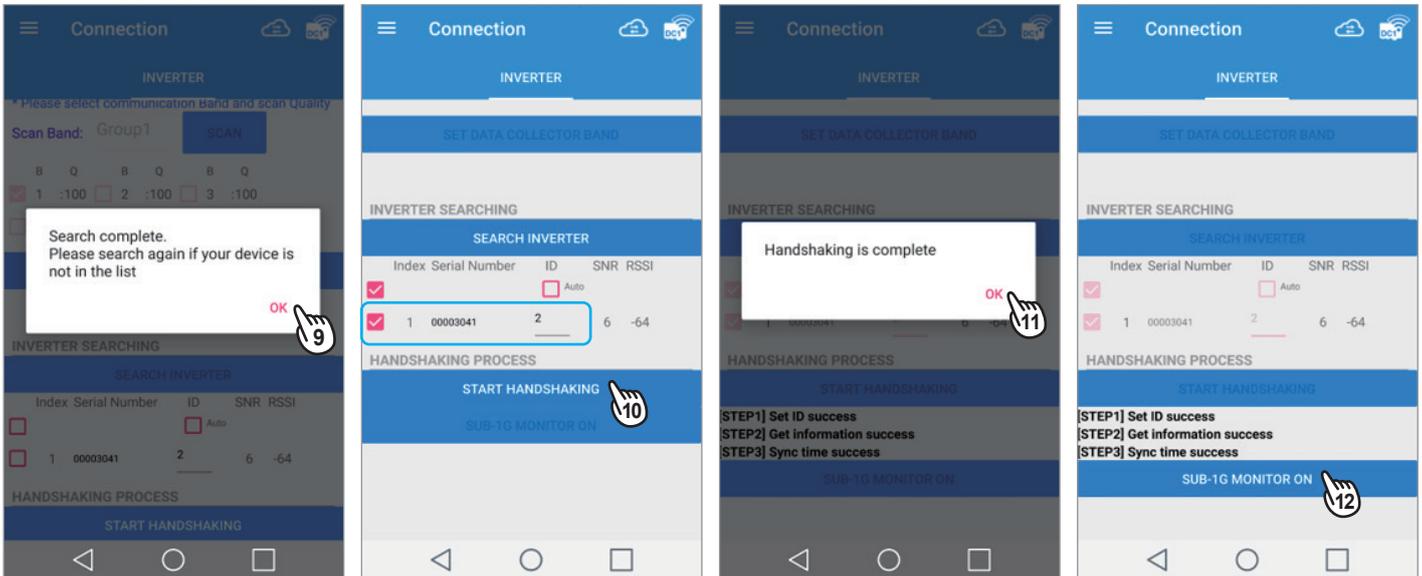
1. Enter email address, password and click "SIGN IN".
2. Click "Data Collector setup" and choose "Yes" for MyDeltaSolar Cloud using.
3. Select plant type, serial number of DC1, also select Sub-1G for inverter connection.
4. Select internet connection and click "NEXT".



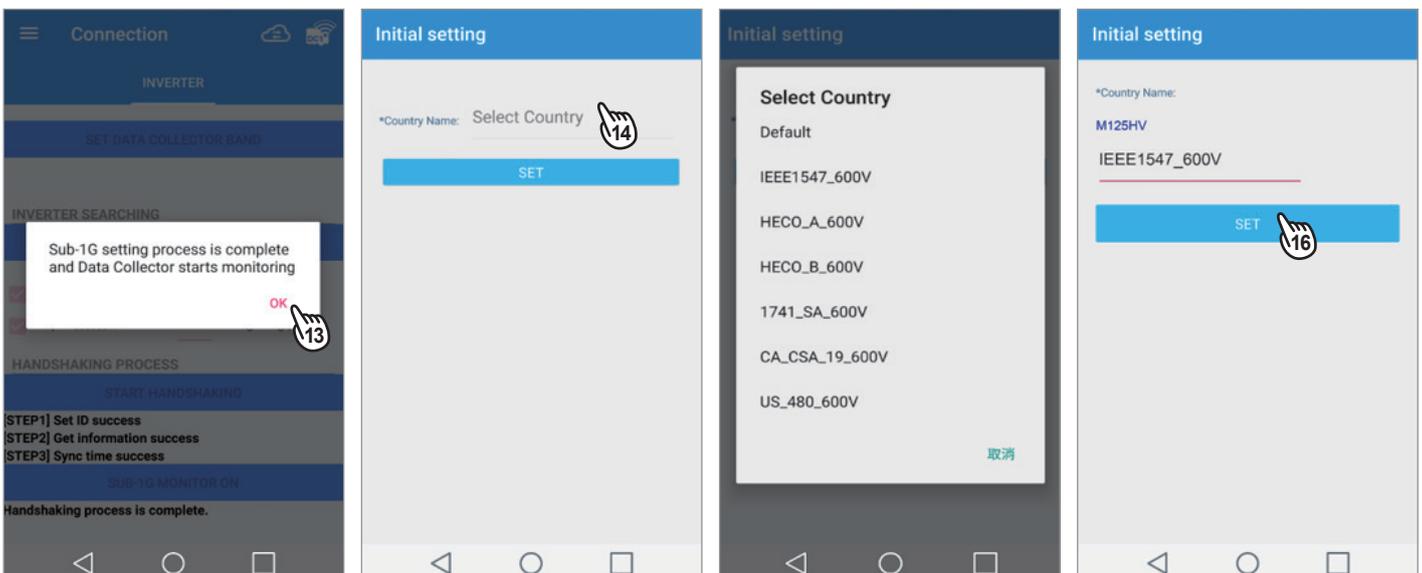
5. Please contact Delta local service for the password.
6. Click "SCAN" to scan the communication quality.
7. Select the quality 100 (or at least 80), then click "OK".
8. Click "SEARCH INVERTER" to search for surrounding inverter.



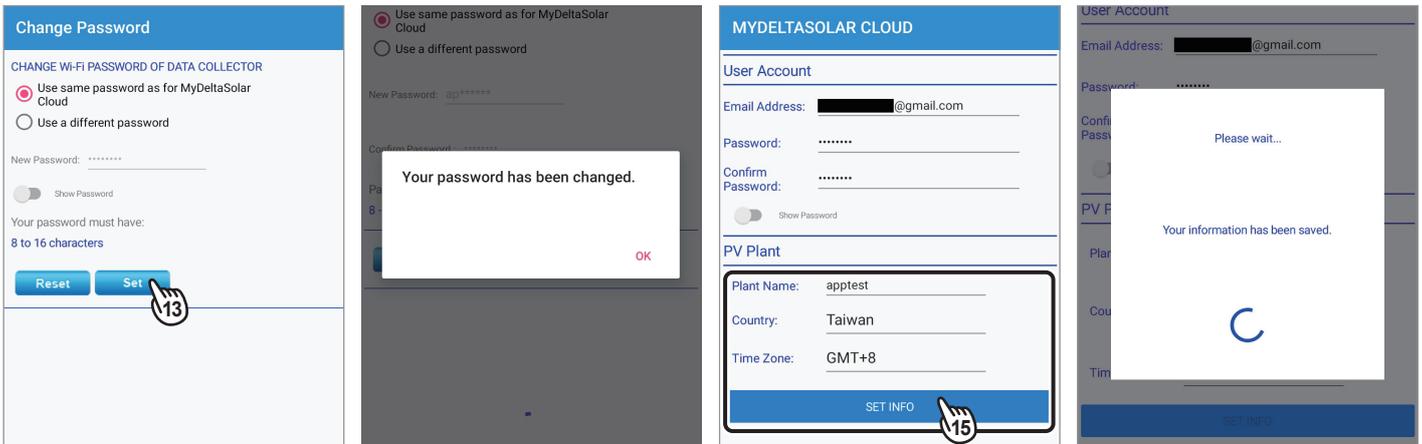
9. Wait few seconds for DC1 to search inverters.
10. Select the serial number of the inverter to set inverter ID and click "START HANDSHAKING".
11. Click "OK" after handshaking complete.
12. Click "SUB-1G MONITOR ON".



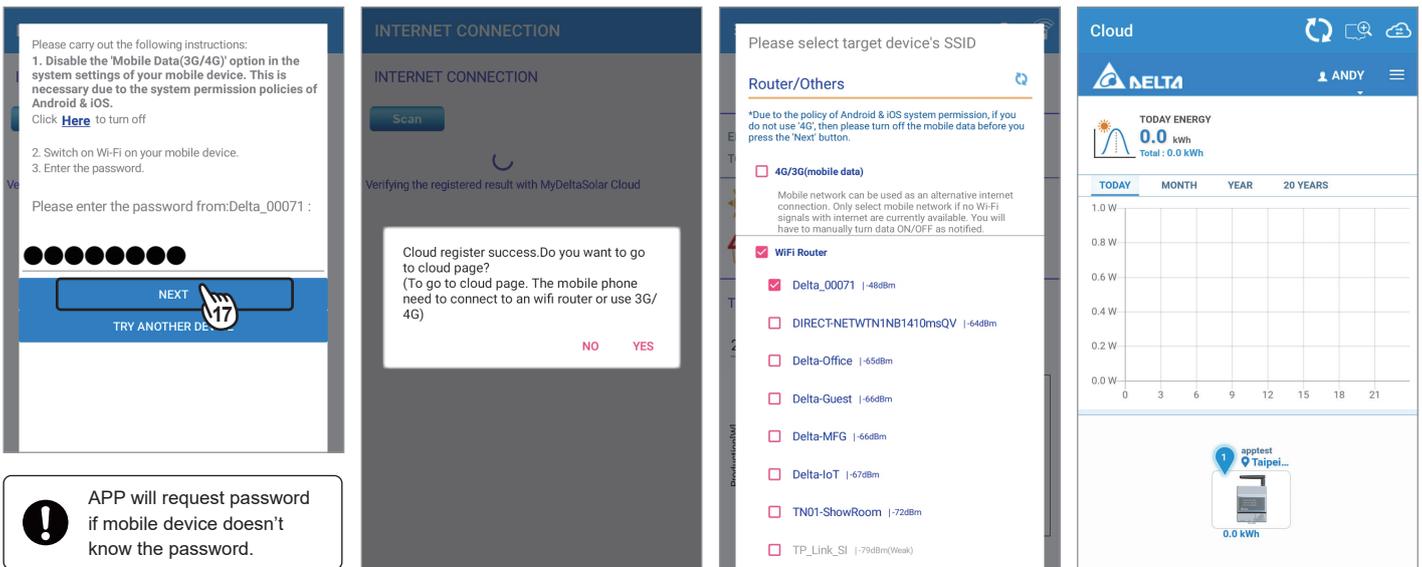
13. DC1 will start monitoring via Sub-1G with inverters.
14. Click "Select Country"
15. Select proper grid code for the inverter.
16. Click "SET" to continue.



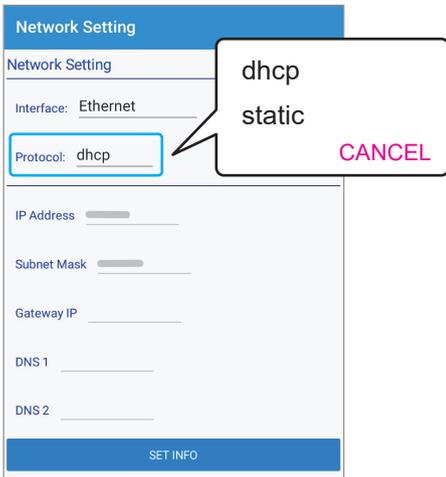
17. Change password of the DC1 and click "Set".
18. Click "OK" to continue.
19. Fill in the plant information and click "SET INFO".
20. Wait few seconds to save the information.



21. (Take Wi-Fi as example) APP will ask if the device will use the same router to connect internet, type in the password and click "NEXT" to proceed. (If select "Ethernet", please refer to the detail description at bottom of this page.)
22. Cloud registration succeed. (If select "No", APP will keep connecting to device not to Cloud.)
23. To go to Cloud page, mobile device need to connect to internet via Wi-Fi or mobile data.
24. APP will lead to Cloud page.



(Select "Ethernet" at step 17)



dhcp

System will automatically assign an IP address.

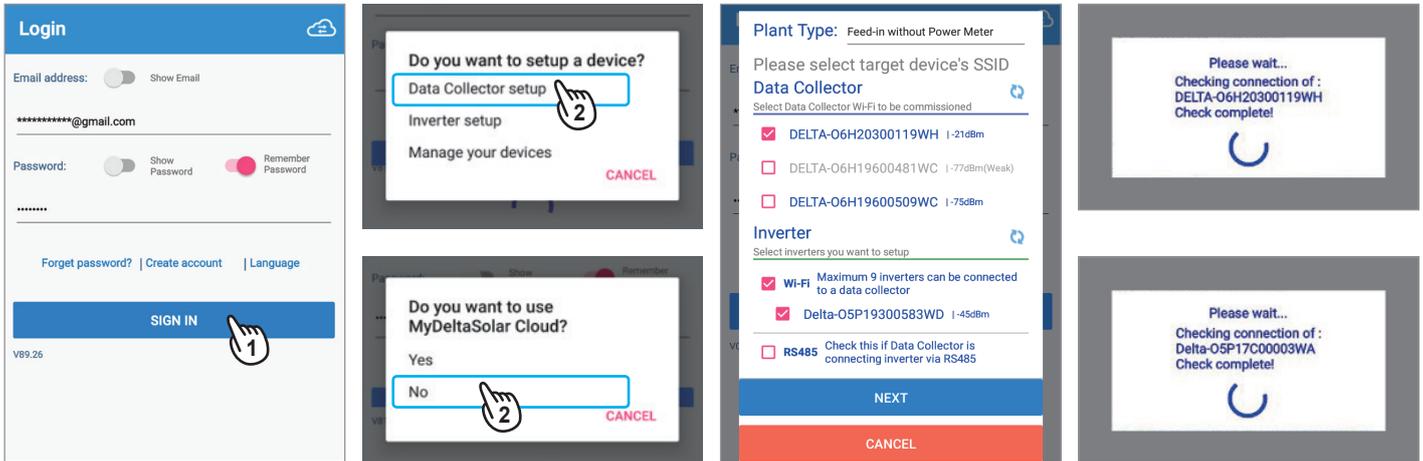
static

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.

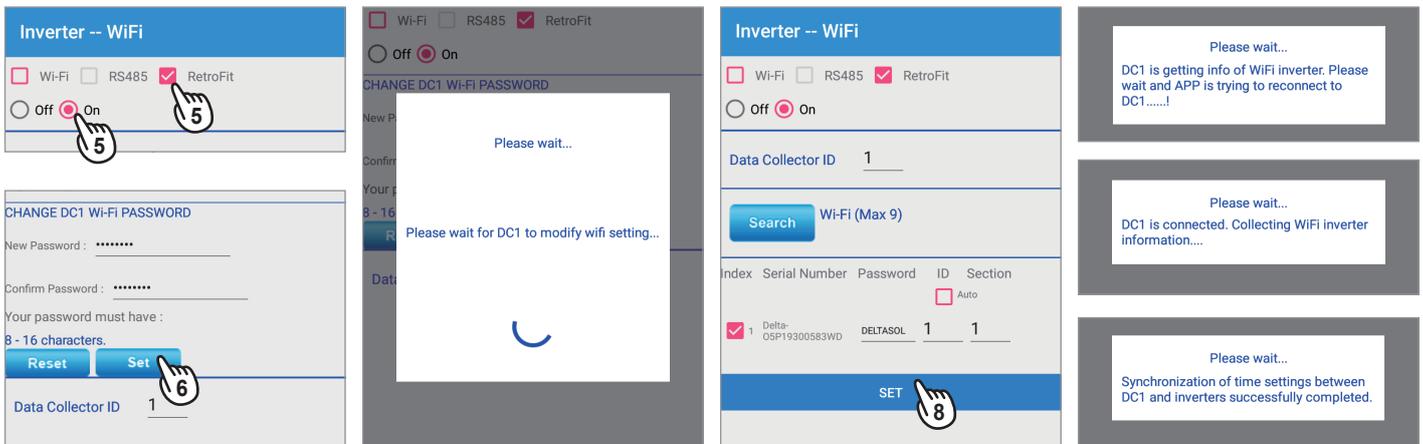
2.5.RetroFit commission process

Please refer to the steps below to setup the data collector (DC1) as RetroFit mode.

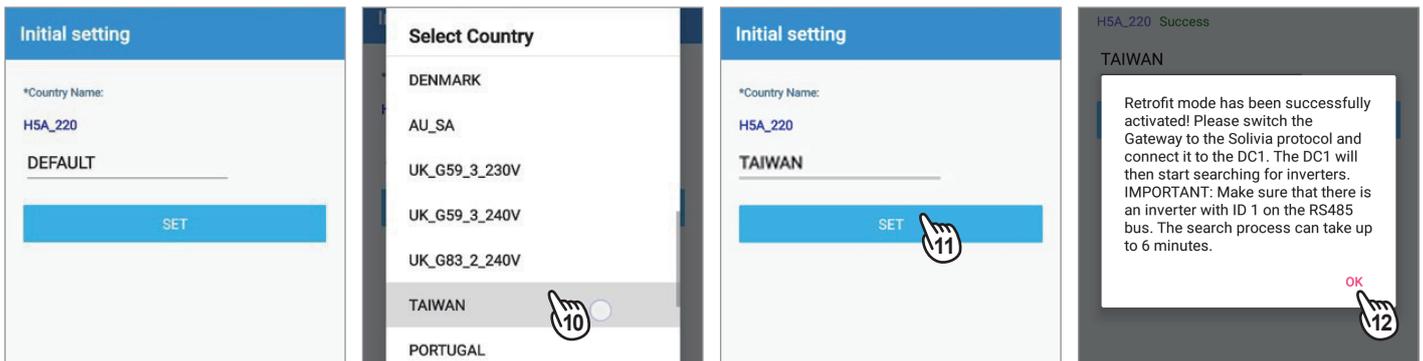
1. Enter email address, password and click "SIGN IN".
2. Click "Data Collector setup" and choose "No" for MyDeltaSolar Cloud using.
3. Select plant type, serial number of DC1, also select Wi-Fi and serial number of inverter.
4. APP will check connection of DC1 and inverter.



5. Select "RetroFit" and click "On".
6. Change password of DC1 and click "Set".
7. Wait for DC1 to modify Wi-Fi setting.
8. Click "SET" to start connection.



9. After connect success, APP will lead to grid code setting page.
10. Select proper grid code for the inverter.
11. Click "SET" to proceed.
12. Click "OK" to confirm the setting.

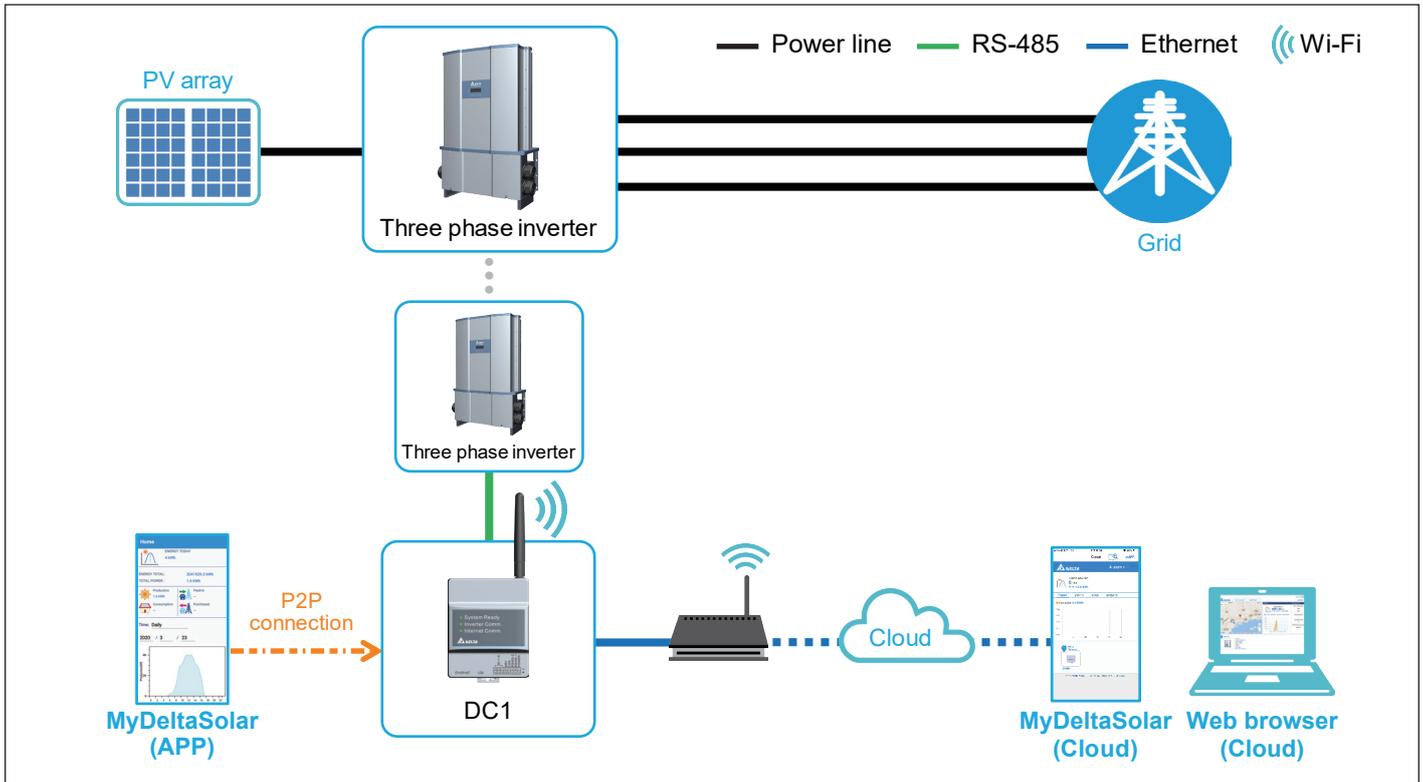


3. DC1 system application

This chapter contains the system architecture diagram of RS-485, WI-FI, SUB-1G, RetorFit and 3rd party monitoring.

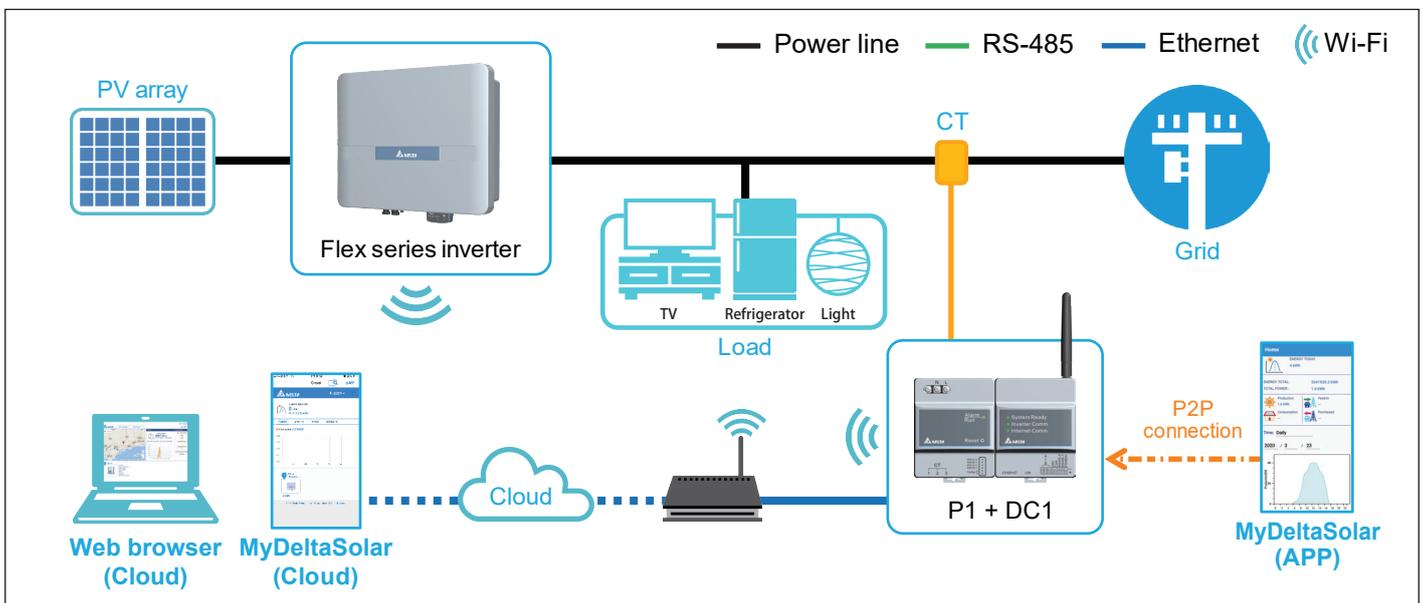
3.1. Normal mode (RS-485)

The RS-485 Inverter is set by operating the DC1 through the APP. Upload power generation data to Cloud Server for monitoring.



3.2. Normal mode (Wi-Fi)

The WI-FI Inverter is set by operating the DC1 through the APP. Upload power generation data to Cloud Server for monitoring.



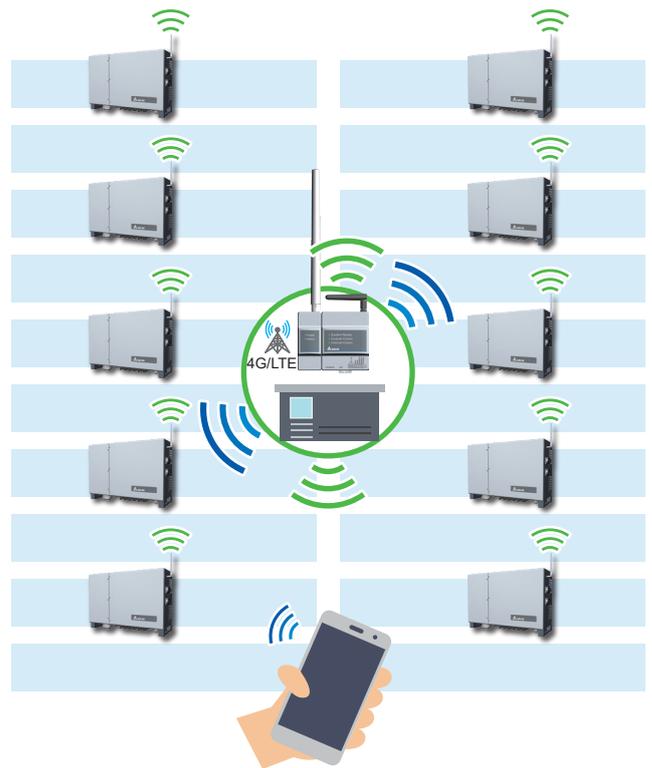
3.3.Normal mode (SUB_1G)

• **What is SUB_1G?**

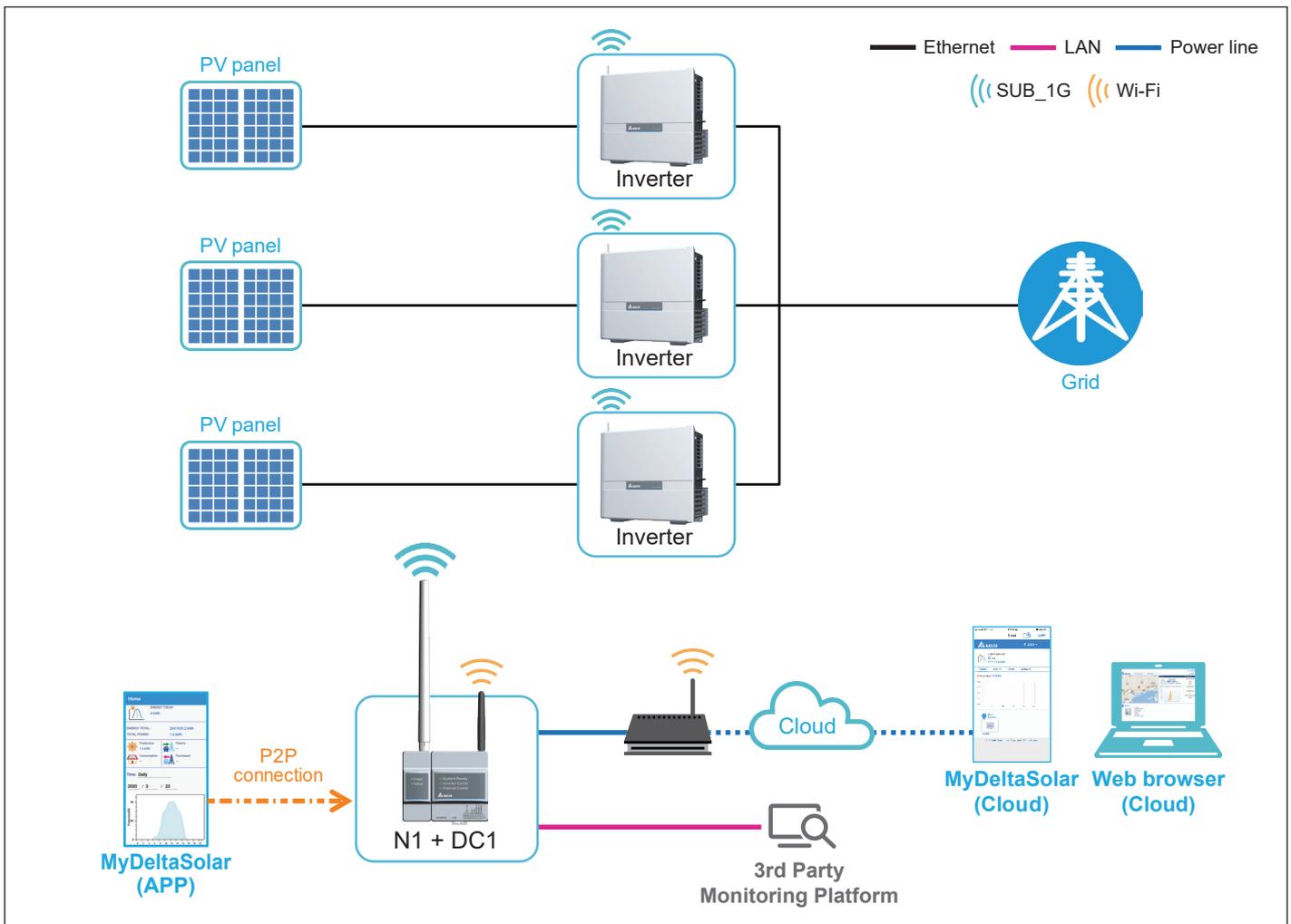
SUB_1G is a wireless communication with a frequency lower than 1GHz. Compared with 2.4GHz Wi-Fi, SUB_1G has a longer transmission distance, stronger penetrate and can cover a larger range, so it is suitable for a wide range field. Compared to the traditional RS485, SUB_1G do not have to do RS485 wiring work and can save the cost.

• **How to set up SUB_1G efficiently?**

To make the Data Collector and Inverters communicate better with largest coverage, please install the Data Collector in the middle of the block.

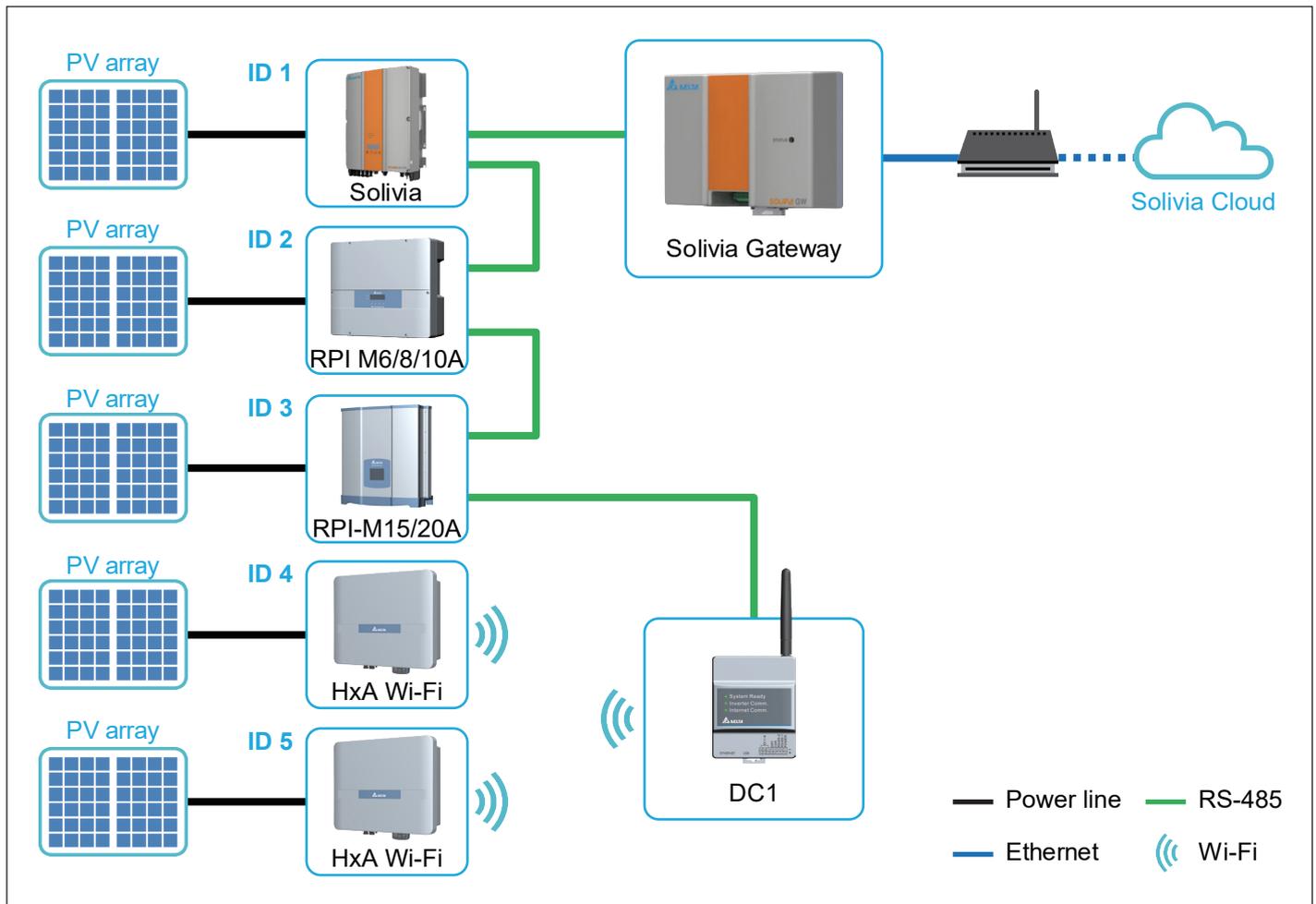


To monitor the field, each block will have one Data Collector (DC1) to transmit wireless signal through Sub-1G device (N1) and Inverter (N2 or N3). With the app, users can connect Inverter and Data Collector, and then upload the collected data to the Delta Cloud by Ethernet or Wi-Fi, or upload to the 3rd party monitoring by LAN for management.



3.4.Retrofit mode

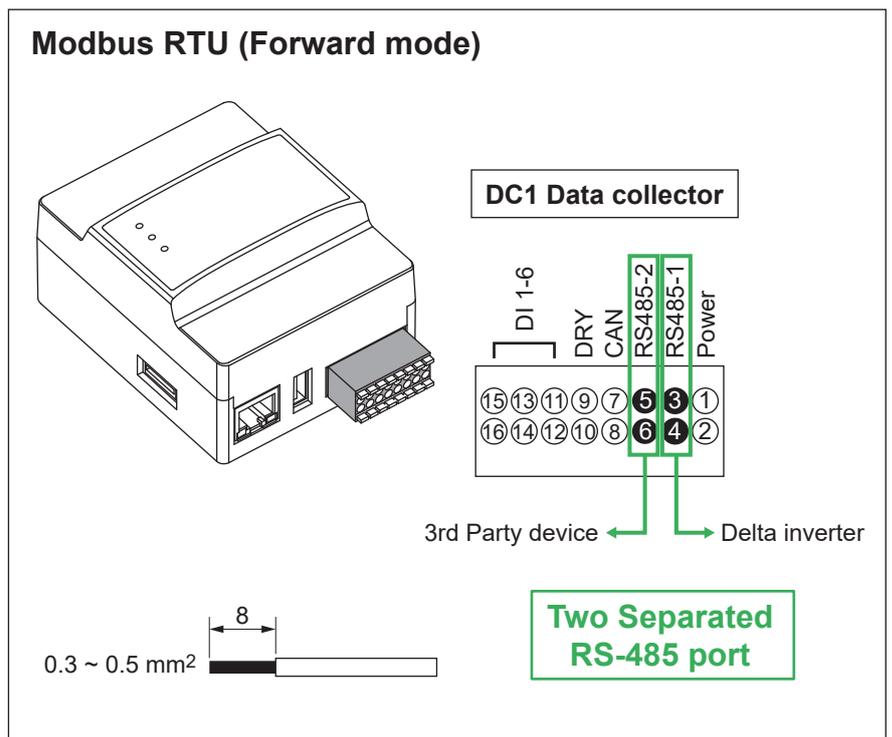
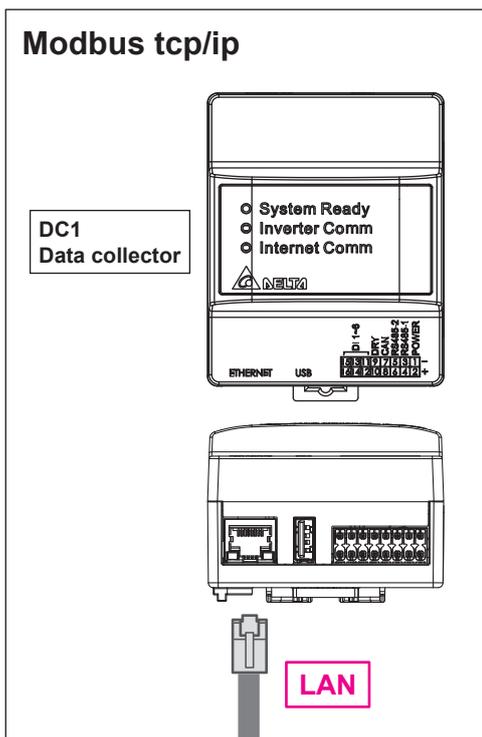
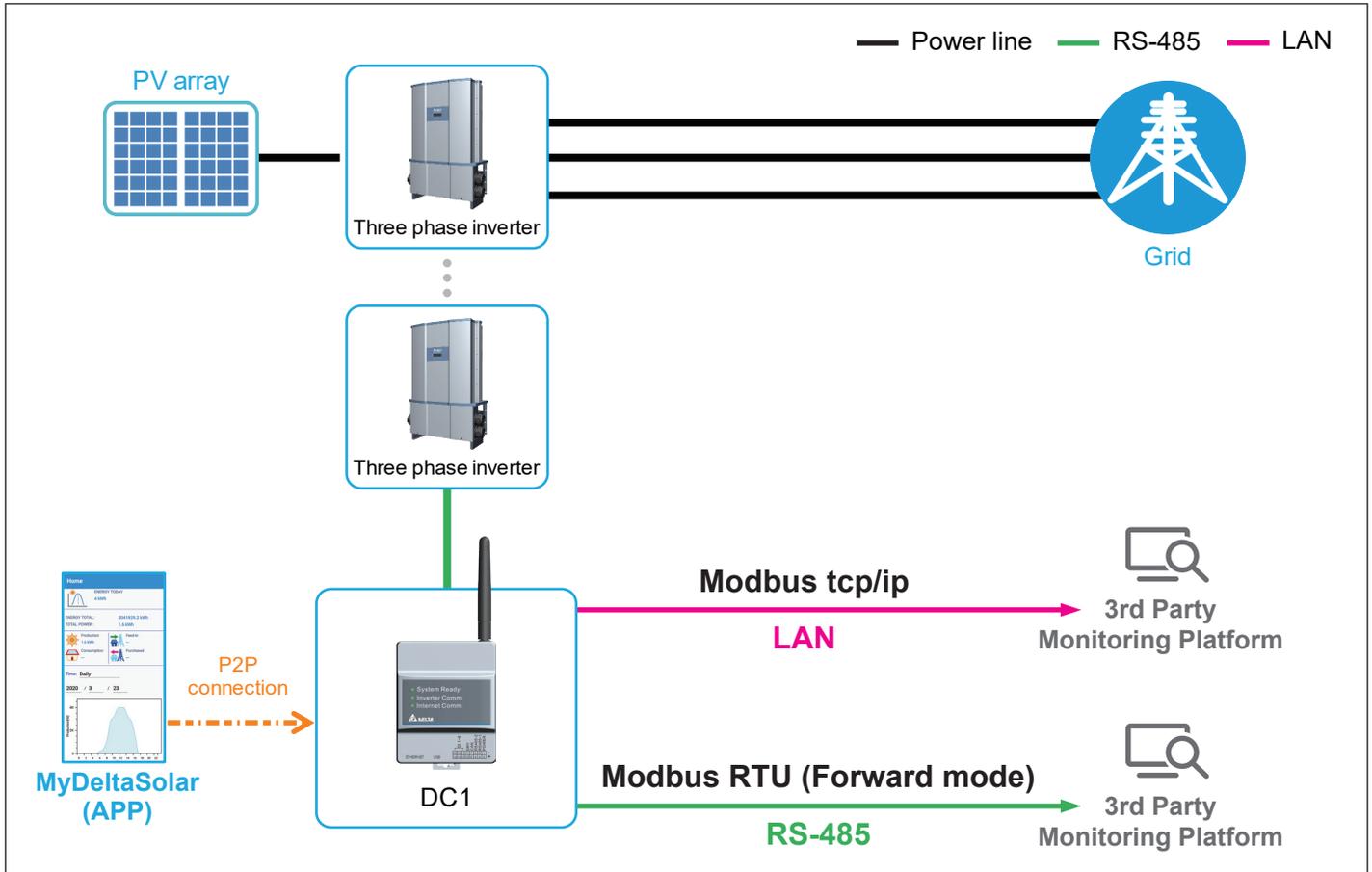
This function is only for Solivia Gateway, the Wi-Fi inverter is set by DC1 through the APP.
Start Solivia Gateway to monitor on Solivia Cloud.



3.5. 3rd party monitoring

RS-485 or Wi-Fi inverter is set by DC1 through the APP.

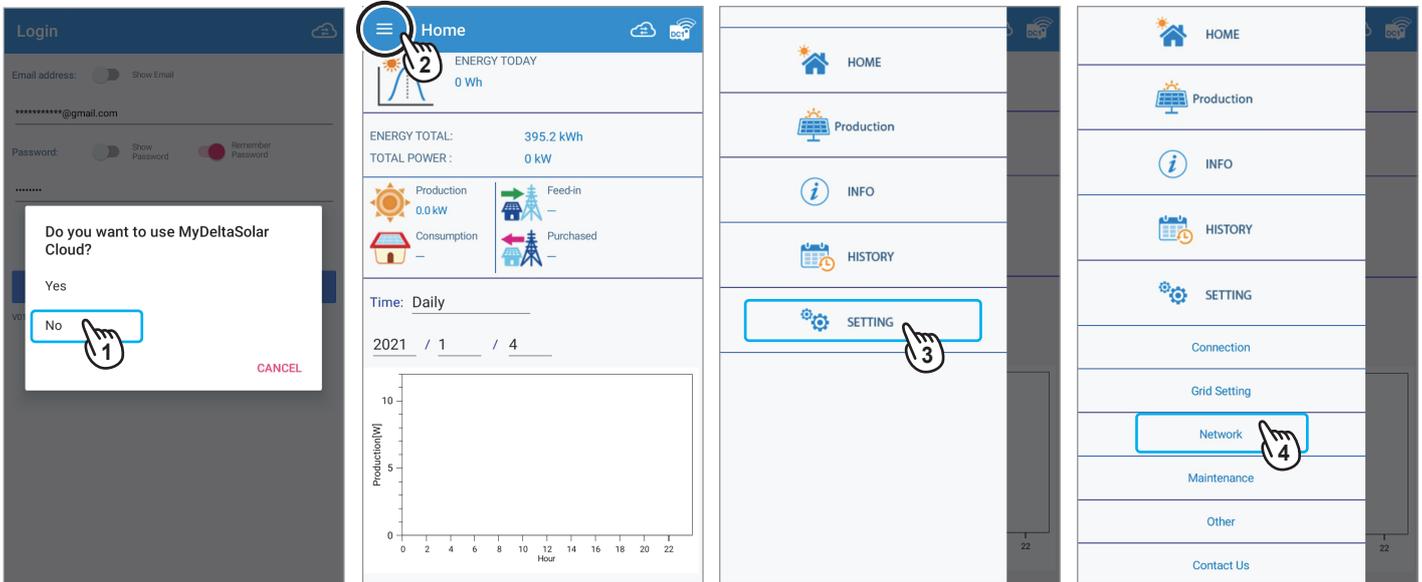
After the setting is completed, the third-party monitoring reads the external communication address of DC1 through Modbus to get the power generation data.



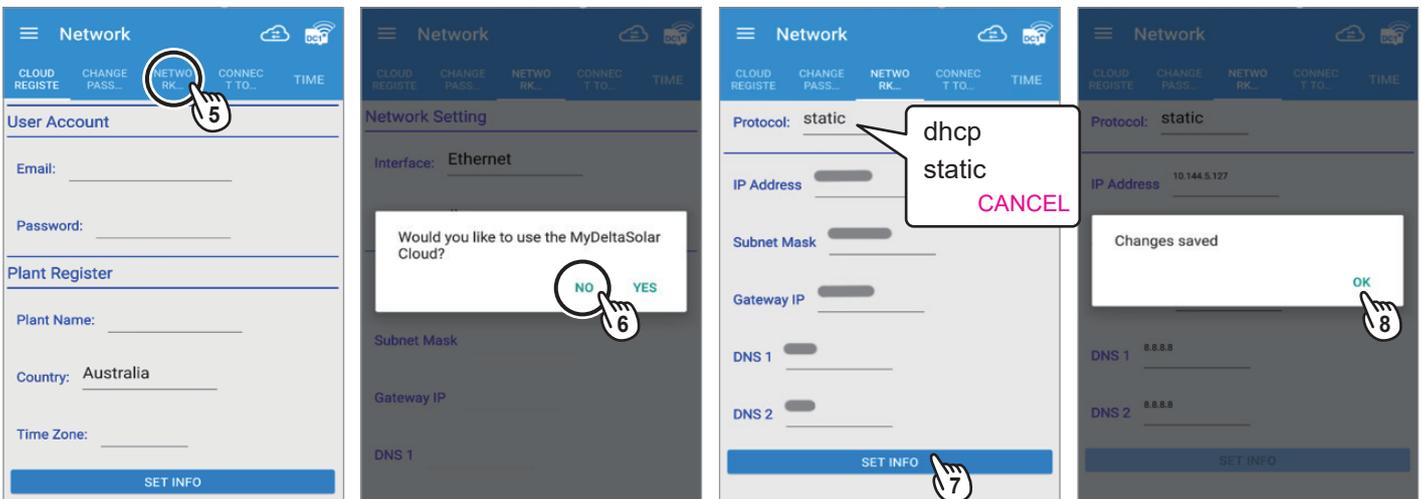
3.5.1.Modbus TCP/IP

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

1. Select "No" for MyDeltaSolar Cloud using. (Refer to *Chapter 2* for more details.)
2. After initial settings, click  to the menu.
3. Click "SETTING".
4. Click "Network".



5. Select "NETWORK SETTING".
6. Select "NO" for cloud using.
7. Select "static" for Protocol, after setting the IP information, click "SET INFO".
8. Click "OK" to save the settings.

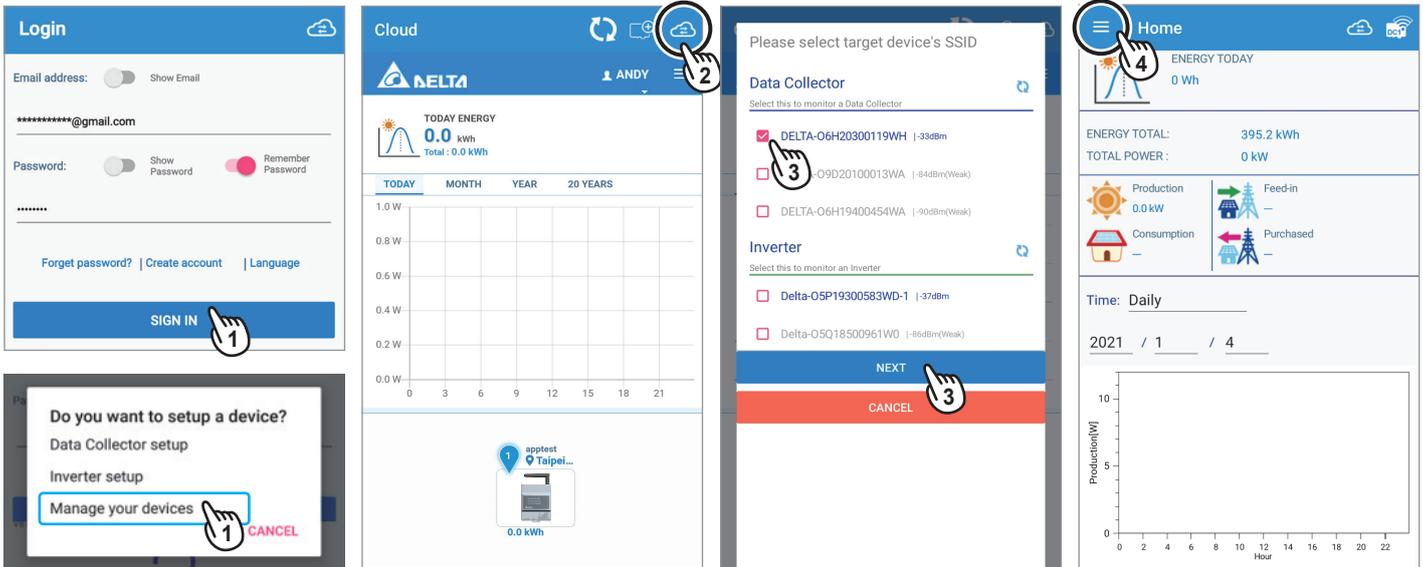


1. IP Address: Set the IP to be specified for third-party monitoring.
2. Subnet Mask: Set the Mask to be specified for third-party monitoring.
3. Gateway IP: Set the Gateway to be specified for third-party monitoring.
4. DNS1: If DC1 has no external connection requirements, you do not need to fill it out. If yes, fill in the DNS that can be used.
5. DNS2: Same as DNS1, this is the alternate DNS.
6. Click set info to complete the setup.
7. Read the external communication address via this IP.

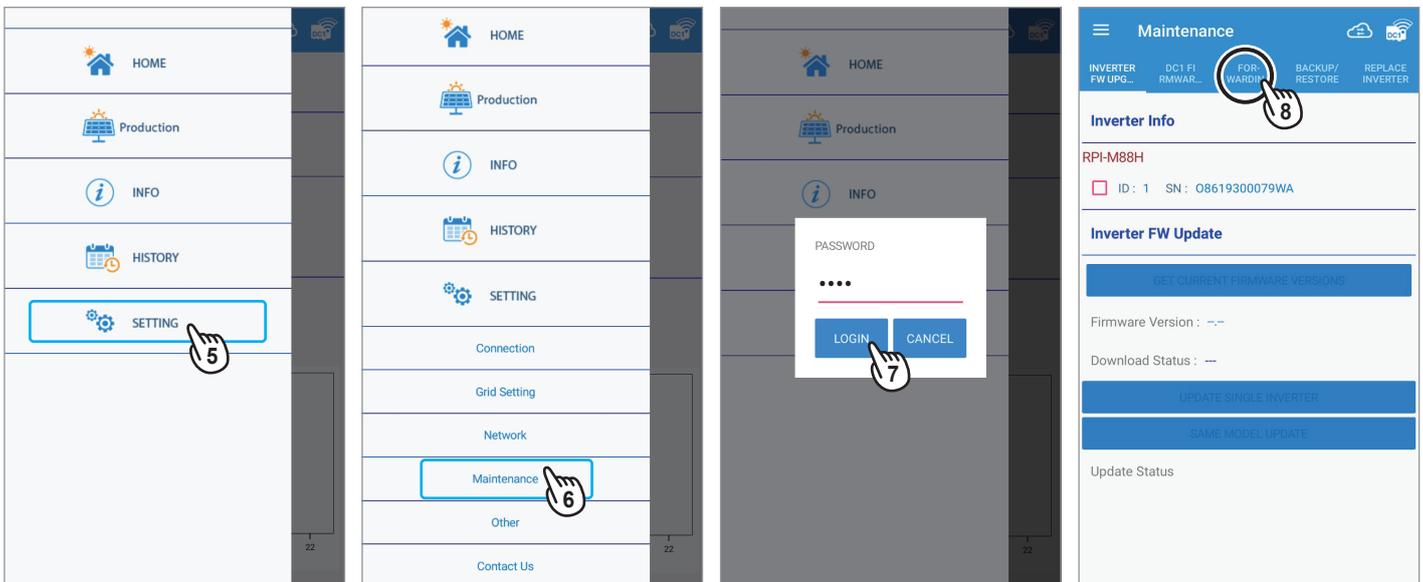
3.5.2. Modbus RTU (Forward mode)

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

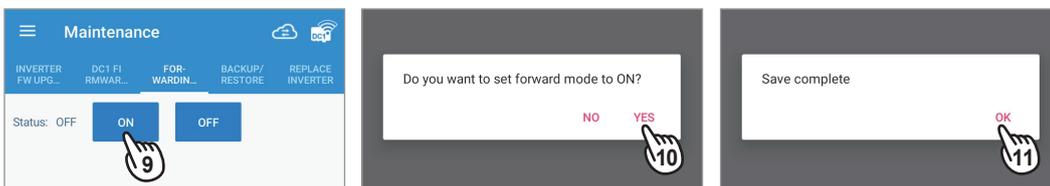
1. Enter email address, password and click "SIGN IN". Select "Manage your devices".
2. Click  icon on the top to connect to DC1.
3. Select serial number of your device and click "NEXT".
4. Click  to the menu.



5. Click "SETTING".
6. Click "Maintenance".
7. Please contact Delta local service for the password.
8. Select "FORWARDING MODE".



9. Click "ON".
10. Click "YES".
11. Click "OK" to save the setting.



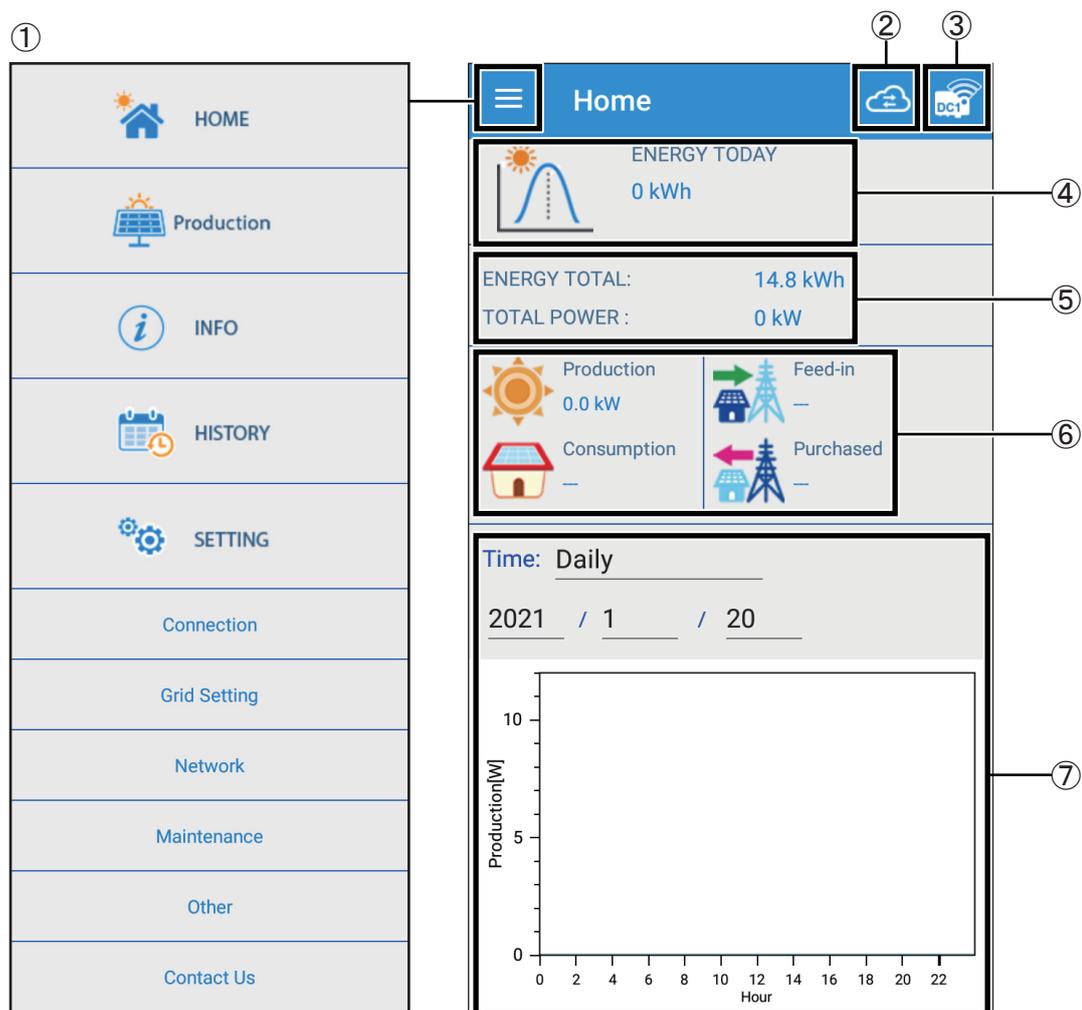
4. Description of the page display (APP)

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 Switch to the cloud page

For a detailed introduction, please see the "Description of the page display (Cloud)" section.

③ Confirm Inverter connection status

If the Inverter is disconnected, the disconnection icon will be displayed.



④ ENERGY TODAY

Display Today Energy.

⑤ ENERGY TOTAL

Display Total Energy.

⑥ Real-time value

Display Production, Consumption, Feed-in, Purchased.

⑦ Energy Maps

Display different Energy maps according to the selected time interval.

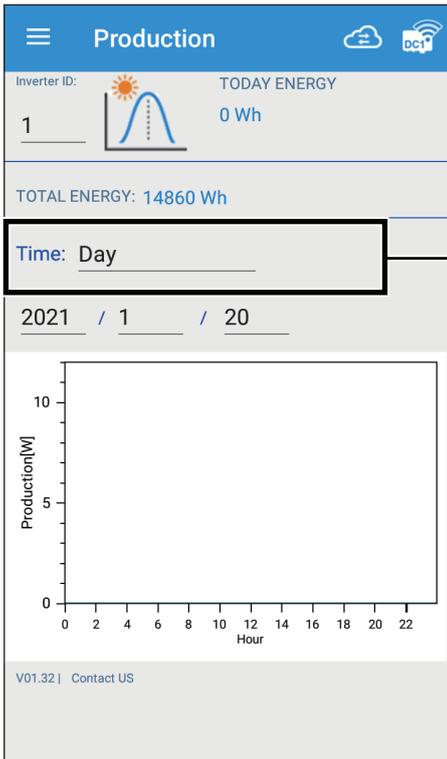
4.2.Production



The Production page will not shown when connected device is inverter.

The details on the performance of power production are displayed by respective units (date/ month/ year), graphs and lists. The following screens are available:

[Day]



[Day]

Display daily energy production per hour.

[Month]

Display month energy production per day.

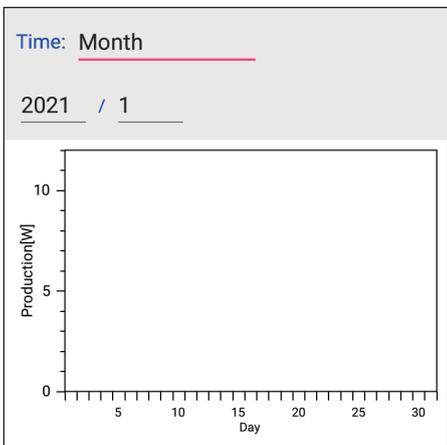
[Year]

Display year energy production per.

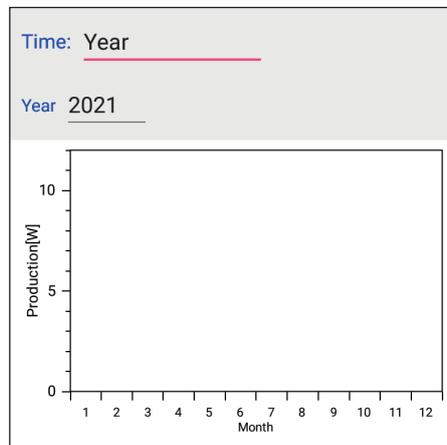
[20 years]

Display 20-years energy production per year.

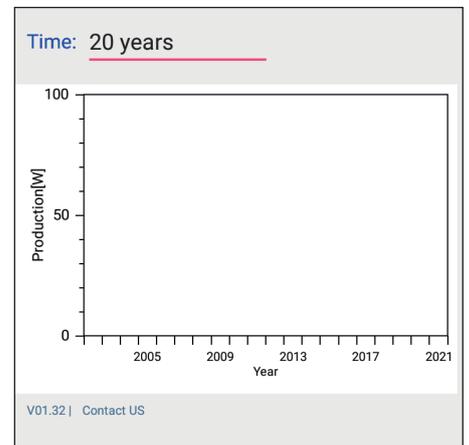
[Month]



[Year]



[20 years]



4.3. Infomation

Display basic information about DC1 and Inverter.

Information	Information
Data Collector Info General Info Data Collector FW Version:82.24 Serial Number:06H20300119WH Connection Interface:Wifi	Output Voltage:3.7 V Current:0.11 A Power:0 W
Energy Today: All Energy Total:14.8 kWh All Energy Today:0 kWh All Total Power:0 kW All Total VA:0 kVar	Operation Data Maximum DC Voltage:551.1 Maximum AC Voltage:289.7 Min/Maximum Temperature:0/102°C
Inverter Info Inverter ID: 1	String current MPPT1:-- MPPT2:-- MPPT3:-- MPPT4:-- MPPT5:-- MPPT6:--
General Info Model Name:HSA_222 Serial Number:09Y19700007W0 Inverter status:ALARM Warning: Energy Today:-- Total Energy:14860Wh Maximum Power:5000w	De-rating Log AC Overvoltage:-- AC Undervoltage:2020/12/24 15:13:31 1800 DC Overvoltage:-- Overtemperature:--
Input Voltage:0.1 / 100.7 V Current: 0 / 0 A Power:0 / 0 W	FW version COMM:02.07 DSP:03.50 RED:-- ARC/DSP2:-- CS:--

[DC1_Info]

- General Info
- Energy Today

[Inverter_Info]

- Inverter ID
- Gerenal Info
- Input
- Output
- Operation Data
- String current
- De-rating Log
- FW version

4.4. History

Record the error status of the Inverter and the connection status.

History	History
ERROR LOG HISTORY ID: All 1. 2020/09/17 14:44:48 ID-1-E09 - No Grid 2. 2020/09/17 14:58:36 ID-1-E09 - No Grid 3. 2020/09/17 15:12:46 ID-1-E09 - No Grid 4. 2020/09/17 15:20:25 ID-1-E09 - No Grid 5. 2020/09/17 16:18:50 ID-1-E09 - No Grid 6. 2020/09/17 16:40:47 ID-1-E09 - No Grid 7. 2020/09/17 16:57:35 ID-1-E09 - No Grid 8. 2020/09/18 10:34:41 ID-1-E09 - No Grid 9. 2020/10/08 17:46:40 ID-1-E09 - No Grid	ERROR LOG HISTORY ID: All Page Number: 1 1. 2021/01/20 14:08:57 ID-1-Connected 2. 2021/01/20 14:15:28 ID-1-Disconnected 3. 2021/01/20 14:15:43 ID-1-Connected

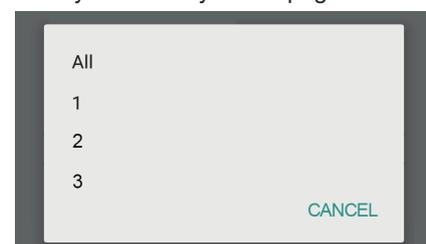
[ERROR LOG]

Display the error event record of the Inverter.

[HISTORY]

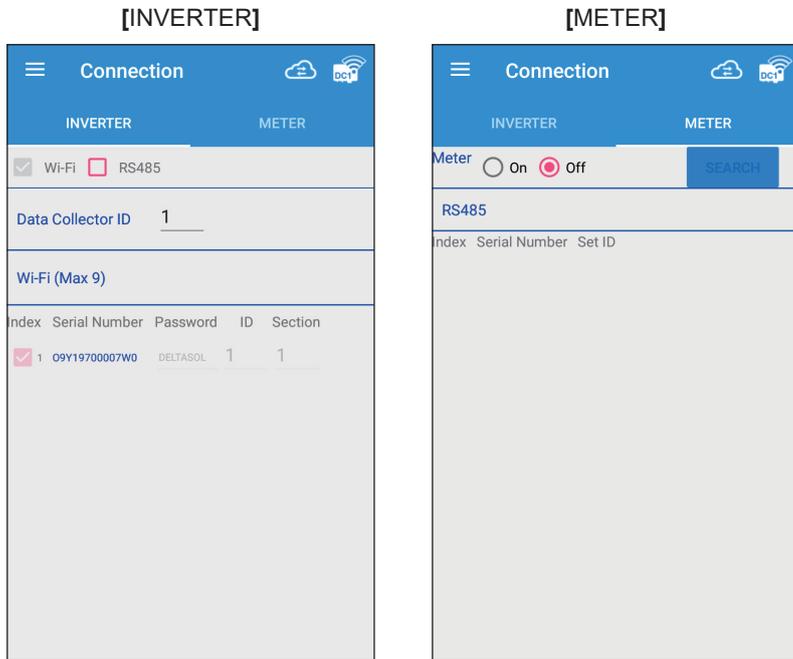
Record the connection records of each Inverter to DC1.

User can choose different ID to show history individually in this page.



4.5.Connection

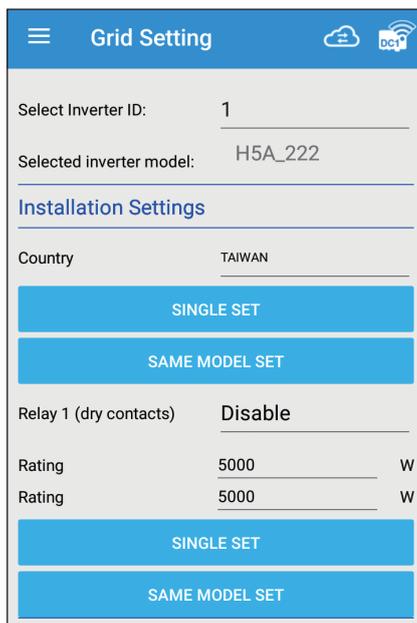
This page will show device connection of the DC1, please don't change any setting after first commission.



4.6.Grid Setting

* Please contact local service for the password

User can check grid setting and inverter functions at this page, such as : Voltage protection, Frequency protection, Power limit, reactive power... etc



SINGLE SET

Only set for the selected Inverter

SAME MODEL SET

Inverter settings for all the same models

4.7.Network

* Please contact local service for the password

DC1 network related settings are introduced in this section.

[MYDELTA SOLAR CLOUD] : This page shows account and plant info of this DC1.

[CHANGE PASSWORD] : Change the WI-FI password for DC1 or Inverter. The password can be entered by yourself or the same as on the cloud server.

[NETWORK SETTING] : DC1 network settings, set DC1 according to the network environment of the site.

[INTERNET CONNECTION] : Can scan WI-FI router surrounded to make DC1 have internet connection and register to cloud.

[TIME] : This page is for DC1 time setting.

[MYDELTA SOLAR CLOUD]

Network

MYDELTA ASOLA... CHANGE PASSW... NETWO RK... INTERN ET... TIME

User Account

Email Address: [redacted]@gmail.com

Password: [redacted]

Confirm Password: [redacted]

Show Password

PV Plant

Plant type: Feed-in without Power Meter

Plant Name: testtt

Country: Taiwan

Time Zone: GMT+8

SET INFO

[CHANGE PASSWORD]

Network

MYDELTA ASOLA... CHANGE PASSW... NETWO RK... INTERN ET... TIME

CHANGE WI-FI PASSWORD OF DATA COLLECTOR

Use same password as for MyDeltaSolar Cloud

Use a different password

New Password: [redacted]

Show Password

Your password must have:
8 to 16 characters

Reset Set

CHANGE INVERTER WI-FI PASSWORD

Use same password as for MyDeltaSolar Cloud

Use a different password

ID ALL

New Password: [redacted]

Confirm Password: [redacted]

Your password must have:
8 to 16 characters

Reset Set

[NETWORK SETTING]

Network

MYDELTA ASOLA... CHANGE PASSW... NETWO RK... INTERN ET... TIME

Network Setting

Interface: Wi-Fi

Protocol: dhcp

IP Address

Subnet Mask

Protocol: dhcp

IP Address

Subnet Mask

Gateway IP

DNS 1

DNS 2

SET INFO

[INTERNET CONNECTION]

Network

MYDELTA ASOLA... CHANGE PASSW... NETWO RK... INTERN ET... TIME

INTERNET CONNECTION

Scan

- DELTA-O6H20300116WH -22dBm
- Delta-O5P17C00003WA -32dBm
- Delta-O5Q18500961W0 -35dBm
- Delta-O5P19300583WD -39dBm
- Delta-Office -48dBm
- Delta-MFG -48dBm
- Delta-O9Y19700007W0 -48dBm
- Delta-PVT204005850H -76dBm
- ZyXEL -77dBm

Password [redacted] Connect

Show password

[TIME]

Network

MYDELTA ASOLA... CHANGE PASSW... NETWO RK... INTERN ET... TIME

Synchronize date and time

Date: 2021 / 1 / 20

Time: 14 / 37 / 15

Server:

pool.ntp.org

TIME.google.com

Time Zone: GMT+0

SET INFO

4.8.Maintenance / Update

* Please contact local service for the password

In this tab, user can do inverter firmware update, DC1 firmware update, backup and restore functions ... etc.



When connecting to inverter, the page will comes up with "Update (Firmware Update)"

The following steps show the connection of inverter:

[Update (Firmware Update)]

1. Click "OK" to proceed.
2. Select the internet connection.
3. Wait for connection.
4. Enter the Firmware Update page.

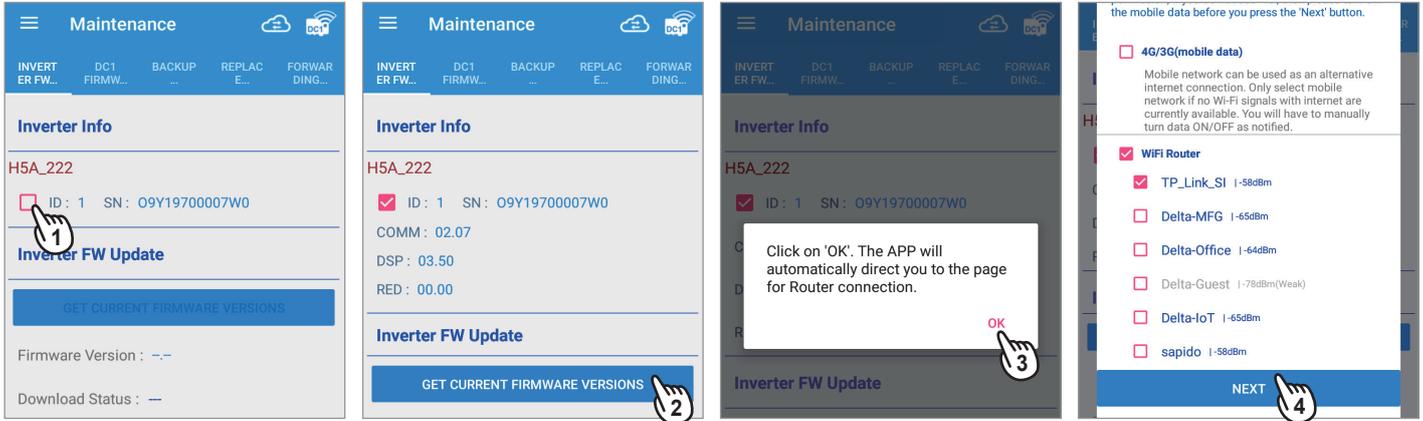
5. Select the model name of the inverter.
6. Select the firmware version.
7. Click "Load Hex File" to download.
8. Select the serial number of the device and click "Update Inverter".

9. Connecting to the device.
10. System will notice to move closer to the device for better communication.
11. The update progress will be displayed.
12. It will show "Success" when firmware update completed.

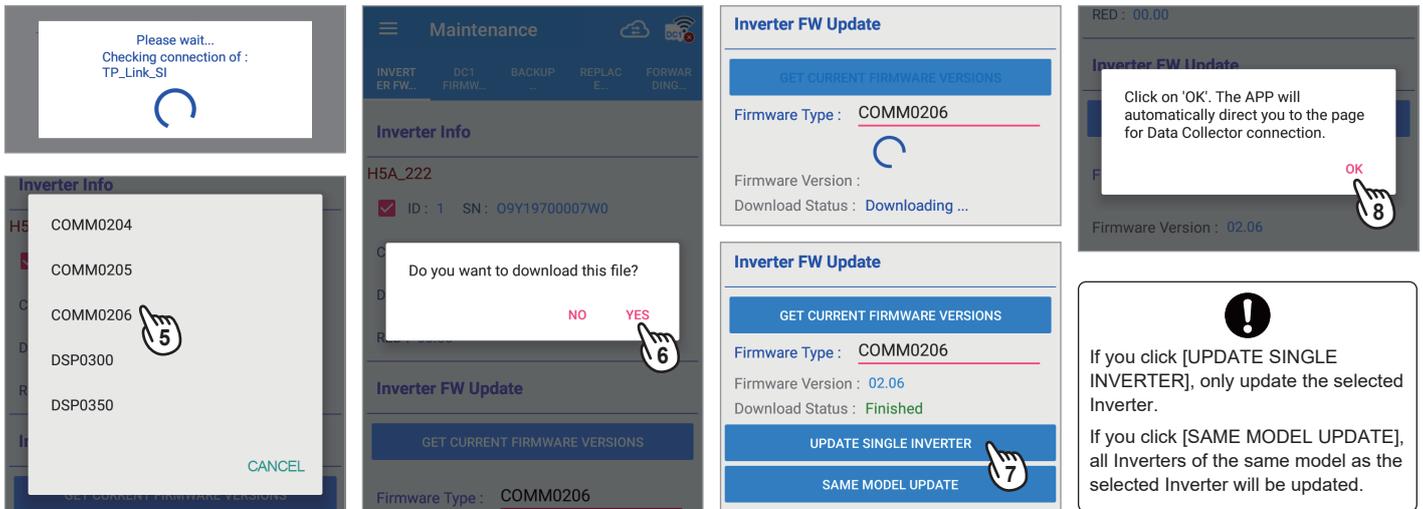
The following steps show the connection of DC1:

[INVERTER FW UPDATE]

1. Select inverter ID for FW update.
2. Click " GET CURRENT FIRMWARE VERSIONS" to get latest FW from cloud.
3. Click "OK" to proceed.
4. Choose one method for internet ability. (4G/3G or Wi-Fi router)

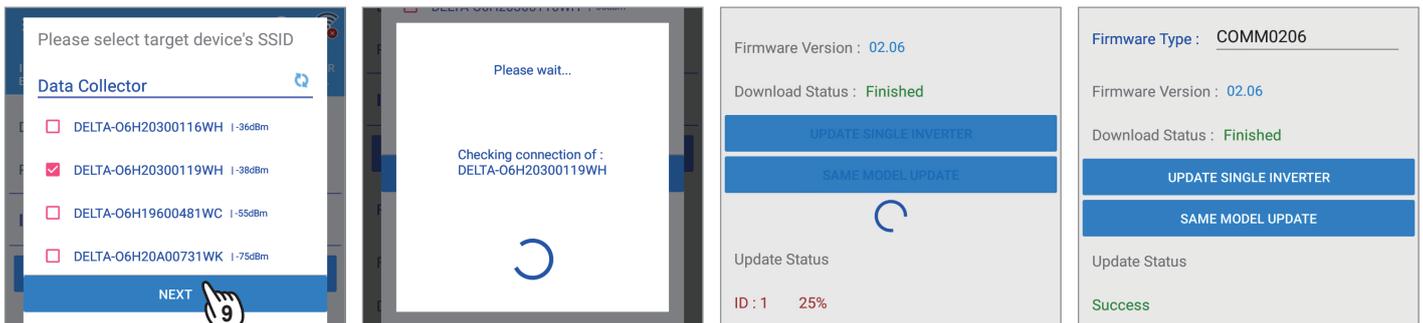


5. Waiting for connection, APP will show latest FW, please select the FW to start download.
6. Click "YES" to start download the FW.
7. Waiting for download, once "Finished" shows up, please click "Update" to start the process.
8. Click "OK".



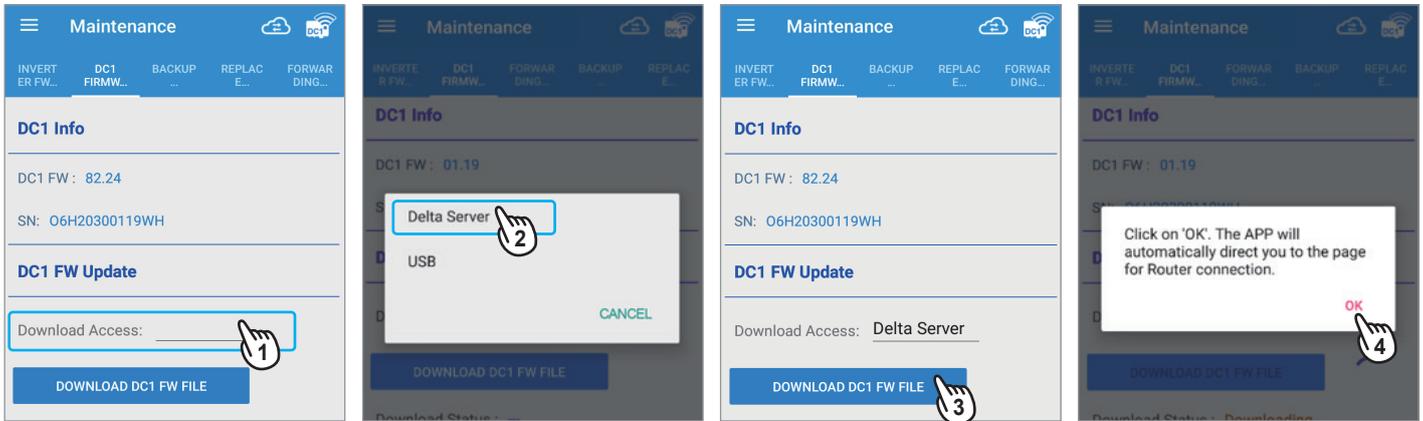
!
If you click [UPDATE SINGLE INVERTER], only update the selected Inverter.
If you click [SAME MODEL UPDATE], all Inverters of the same model as the selected Inverter will be updated.

9. APP will ask connect to DC1 please select DC1 SSID to start FW update.
10. Wait mobile phone connect to DC1.
11. DC1 will start update the FW.
12. Update finished.

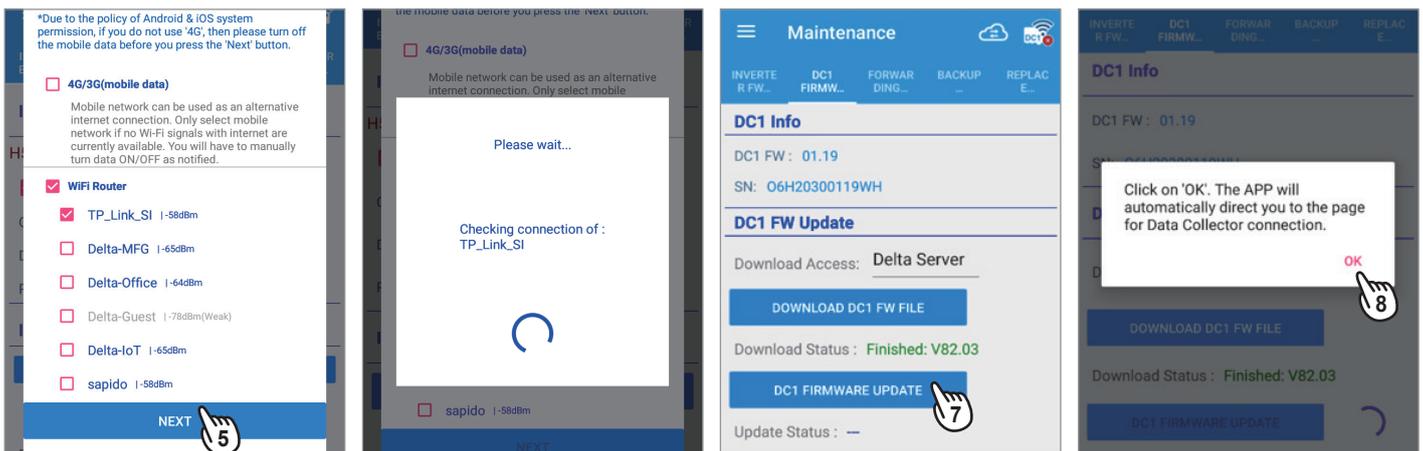


[DC1 FW UPDATE]

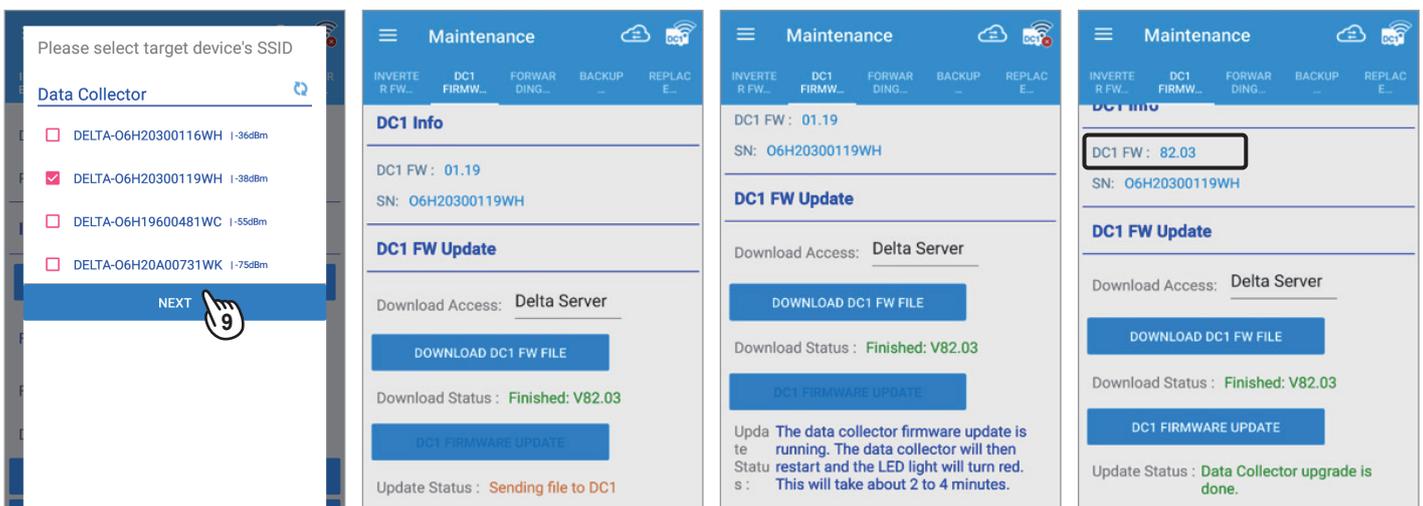
1. Click DC1 FW UPDATE then select FW download Access.
2. Select "Delta Server".
3. Click "DOWNLOAD DC1 FW FILE".
4. Click "OK" to proceed.



5. The APP will ask to connect to the Internet through mobile data or router.
6. APP will check the connection of the router.
7. DC1 FW will start download, after finished, click "DC1 FIRMWARE UPDATE".
8. Click "OK" to proceed.



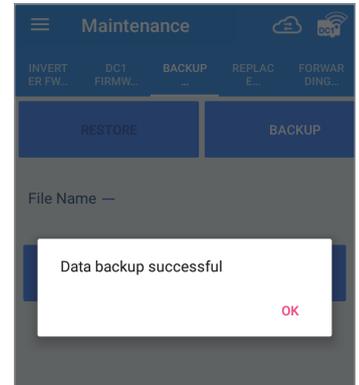
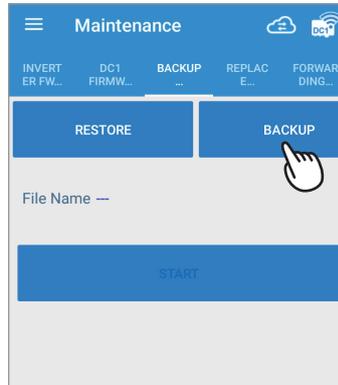
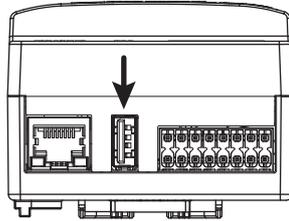
9. APP will ask connect to DC1 for FW update, select DC1 SSID and click Next.
10. APP start sending the FW to DC1.
11. DC1 will update the FW automatically and restart, this might take 2~4 minutes , once APP reconnect to DC1 the FW will update to latest version.



[BACKUP/RESTORE]

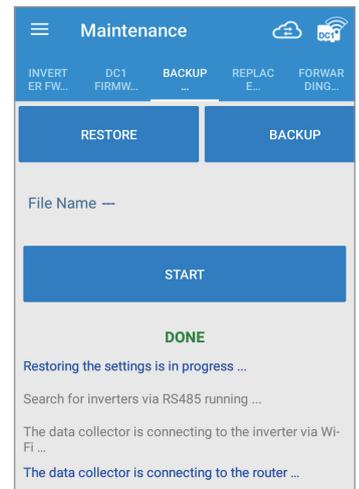
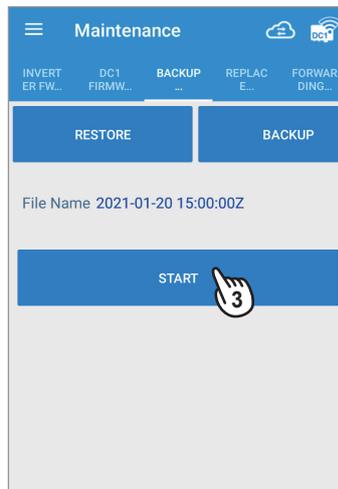
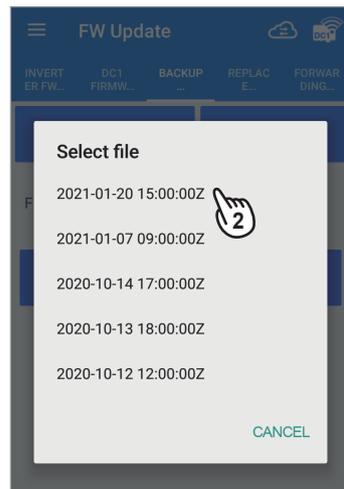
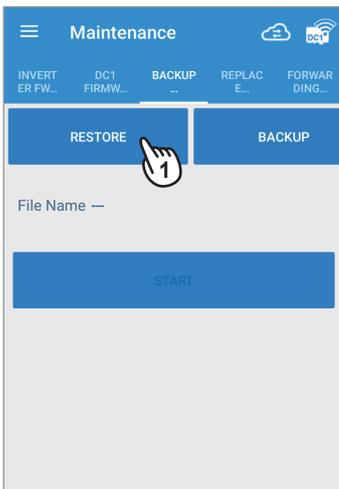
[BACKUP]

1. Plug in the USB stick to DC1 and click "BACKUP".
2. Backup success.



[RESTORE]

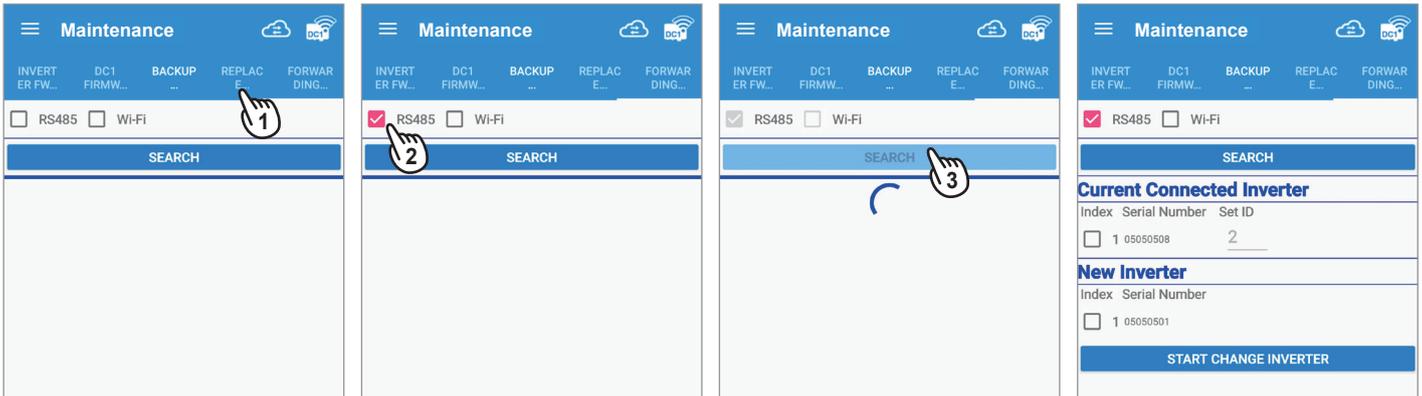
1. Plug in USB stick with back file and click "RESTORE".
2. Choose the file ready to restore.
3. Click "START".
4. Restore complete.



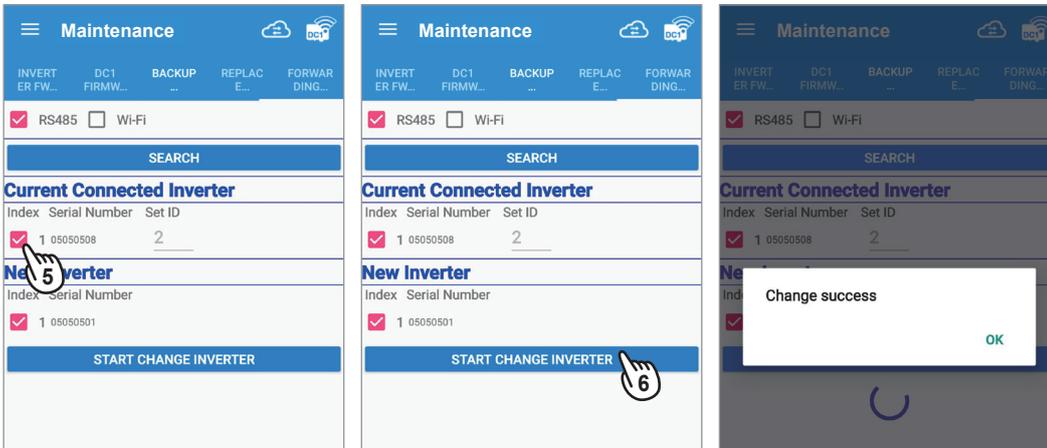
[REPLACE INVERTER]

When inverter damaged on the site or the inverter has to be changed due to specific reason, the change inverter function can perform the inverter swap. This will prevent re-commission and register to the cloud.

1. Select the REPLACE INVERTER.
2. Select connection type.
3. Click "SEARCH", DC1 will start to check if there is a new inverter has been installed.
4. This list will show:
 - Existing inverter
 - New inverter

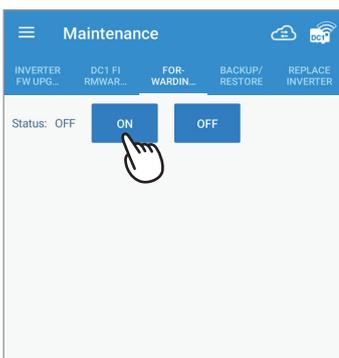


5. Select the current connected unit that required to swap. And select the new inverter that required to swap.
6. Click "START CHANGE INVERTER".
7. Change success.



[FORWARDING MODE]

Please refer chapter 3.5.2 for more details.



4.9.OTHER

* Please contact local service for the password

This section contains DRM0, PARTIAL/ZERP EXPORT, DRY CONTACT

[DRM0 (Digital input)]

1. Click [On] to turn on the function.
2. Follow below table to set the specific power limit value, you can check the percentage by DRM0(%) on the APP.

Short pins	Inverter behavior (standard)
16 & 15	N/A
16 & 14	Power de-rating to 30%
16 & 13	Power de-rating to 0%
16 & 12	Power de-rating to 100%
16 & 11	Power de-rating to 60%

Short pins	Inverter behavior (AU)
16 & 15	Disconnect from grid
16 & 14	Power de-rating to 75%
16 & 13	Power de-rating to 100%
16 & 12	Power de-rating to 50%
16 & 11	Power de-rating to 0%

[PARTIAL/ZERO EXPORT]

1. Click [On] to turn on the function.
2. Base on local export requirement, set the Sign capacity & PV capacity, DC1 will use the lower value as the power limit reference.
3. Set the Rate% base on power company or local regulation.

[DRY CONTACT]

1. Select the type of alert to trigger
2. When the Inverter triggers the selected alarm, DC1 will close dry contact relay to trigger external device.

[PHASE INTERLOCK]

For some Australia grid company requirement, please turn on phase interlock if needed.

[PARTIAL/ZERO EXPORT]

[DRM0]

[PHASE INTERLOCK]

[DRY CONTACT]

5. Description of the page display (Cloud)

We can see the Cloud page through the mobile phone, you can see the detailed power generation information, the case information and the settings can be modified.



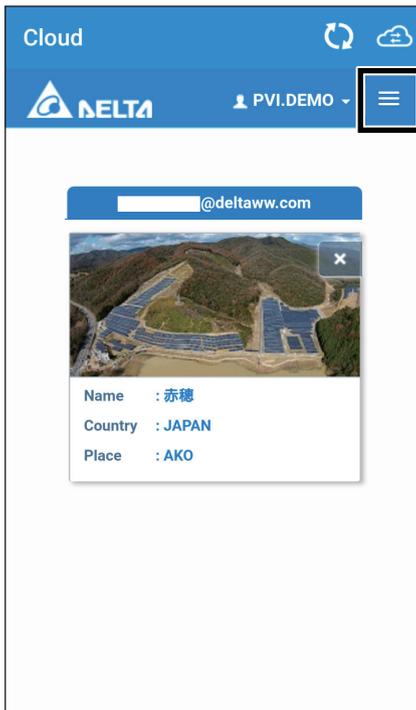
There are some slight differences between ios and Android's APP screen layout. This manual uses the Android system APP screen representative to explain.

5.1.Home Page

The screenshot shows the Delta Cloud APP home page. At the top, there is a blue header with the Delta logo (1), a refresh icon (4), a cloud icon (2), and a user menu (3) containing 'PVI.DEMO' and a hamburger menu. Below the header, there is a 'TODAY ENERGY' card (7) showing 4.4 MWh and a total of 19.8 GWh. A large area chart (8) displays power generation in kW over a 24-hour period. Below the chart is a plant information card (9) for '赤穂 AKO, ...' showing 4.4 MWh. On the right, a 'MY SOLAR' menu (5) includes options like Support, Announcements, Products, Contact Us, and Language. A secondary menu (6) includes 'Edit Password' and 'Sign Out'. At the bottom, three bar charts show production for [MONTH], [YEAR], and [20 YEARS], all displaying a total production of 823.768kWh.

- ① DELTA logo
Click to return to the main page
- ② Cloud icon
Click to return to the APP main page
- ③ New plant / add inverter
Create new plant or add inverter to exist plant
- ④ Refresh icon
Click to refresh cloud page
- ⑤ Function menu
View each case, introduce Delta products and contact us
- ⑥ USER menu
Edit password or Sign out
- ⑦ Power generation
Show today's power generation and total power generation
- ⑧ Power generation map
Display different power generation maps according to the selected time interval
- ⑨ Set up the Plant
Display the name of each plant and the amount of power generated

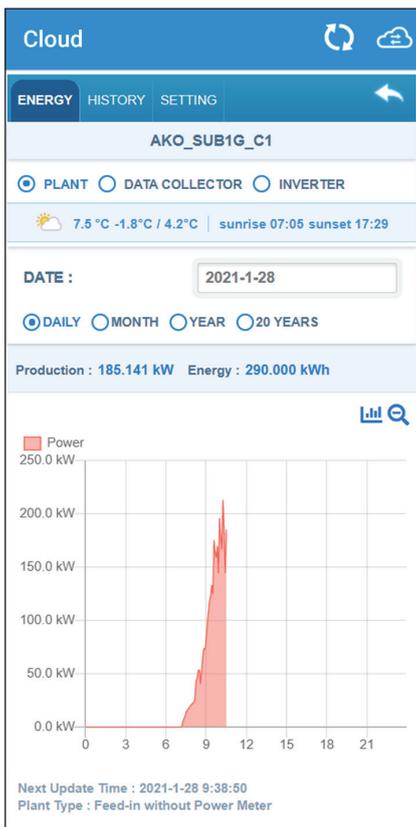
5.2.MY SOLAR



Click MY SOLAR, you can individually view the detailed power generation information of the plant.

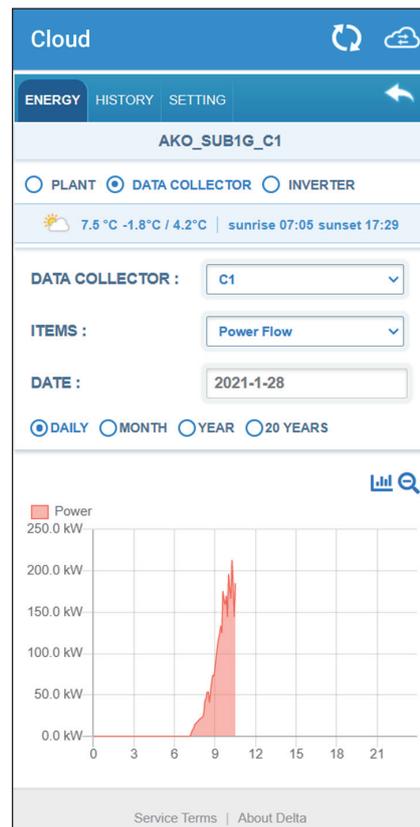
[ENERGY - PLANT]

The total power generation of the inverter under the Plant



[ENERGY - DATA COLLECTOR]

According to the selected DATA COLLECTOR shows the total power generation of the Inverter under this DATA COLLECTOR



[ENERGY - INVERTER]

According to the selected Inverter show the total power generation for this or all inverters.



[HISTORY - PLANT]

Display when this PLANT started

Plant Name	Time
AKO_SUB1G_C1	2019-07-12

[HISTORY - DATA COLLECTOR]

Display start time or disconnection time of selected DATA COLLECTOR

Data Collector	Start	End
06H19600506WC	2020-04-20 08:30:00	~

[HISTORY - INVERTER]

Display the startup time of the selected Inverter or the time of each EVENT

ID	Time	Event
14	2021-01-20 07:10:44	Ac Connected Fail (E08)

[SETTING - PLANT]

PLANT Settings

SHARE PLANT WITH SPECIFIC PEOPLE

+ Add

test@t.t (Own)

Apply

[Plant sharing]

plant owner can easily share plant information to every one.

Share plant with specific people

Please Enter Delta Solar Account For Plant Sharing

E-mail: E-mail@example.com

(share energy info. and history of plant with specific people)

Reset Send

[SETTING - BLOCK]

User can define block for the plant if there are several DC1, the information will be block base at this page.

Cloud

ENERGY HISTORY **SETTING**

PLANT **BLOCK** DATA COLLECTOR INVERTER

BLOCK : [Dropdown]

+ Add New Block

EDIT

BLOCK NAME : [Input Field]

DEVICES :

06H19600506WC :

2

[SETTING - DATA COLLECTOR]

DATA COLLECTOR settings

Cloud

ENERGY HISTORY **SETTING**

PLANT BLOCK **DATA COLLECTOR** INVERTER

DATA COLLECTOR : 06H19600506WC

EDIT

COLLECTOR NAME : [Input Field]

SERIAL NUMBER : 06H19600506WC

MAC : F8369B0CACE3

Apply Delete

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[SETTING - INVERTER]

Inverter settings

Cloud

ENERGY HISTORY **SETTING**

PLANT BLOCK DATA COLLECTOR **INVERTER**

DATA COLLECTOR : 06H19600506WC

EDIT

INVERTER ID : 2

INVERTER NAME : [Input Field]

SERIAL NUMBER : 0000000100

INVERTER ID : 2

Apply Delete

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5.3.Products

Cloud

DELTA PVI.DEMO

Inverter Battery Data Collector Power Monitor

Power Meter Comm. Unit Mobile App

SINGLE PHASE INVERTER

[Image]

H2.5 / H3 / H3A / H4A / H5A

Operation and Installation Manual :

English 繁體中文 Português

Quick Installation Guide :

English

[Image]

MY SOLAR

Support ▼

Announcements

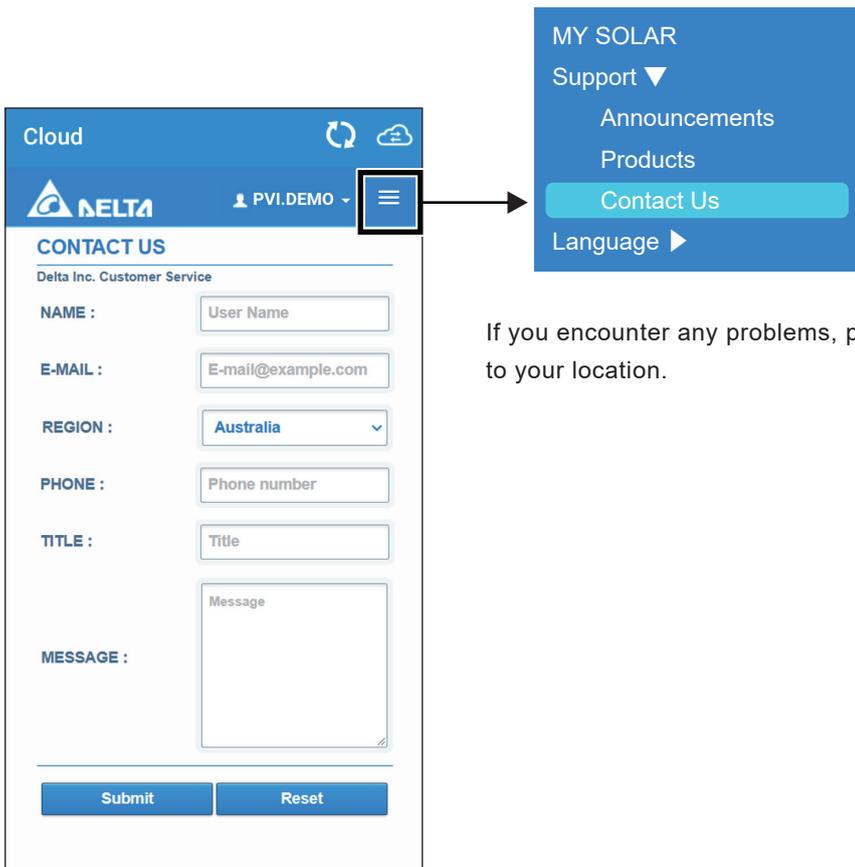
Products

Contact Us

Language ▶

Click to go manual download page.

5.4. Contact Us



Cloud

MY SOLAR
Support ▾
Announcements
Products
Contact Us
Language ▶

CONTACT US
Delta Inc. Customer Service

NAME :

E-MAIL :

REGION :

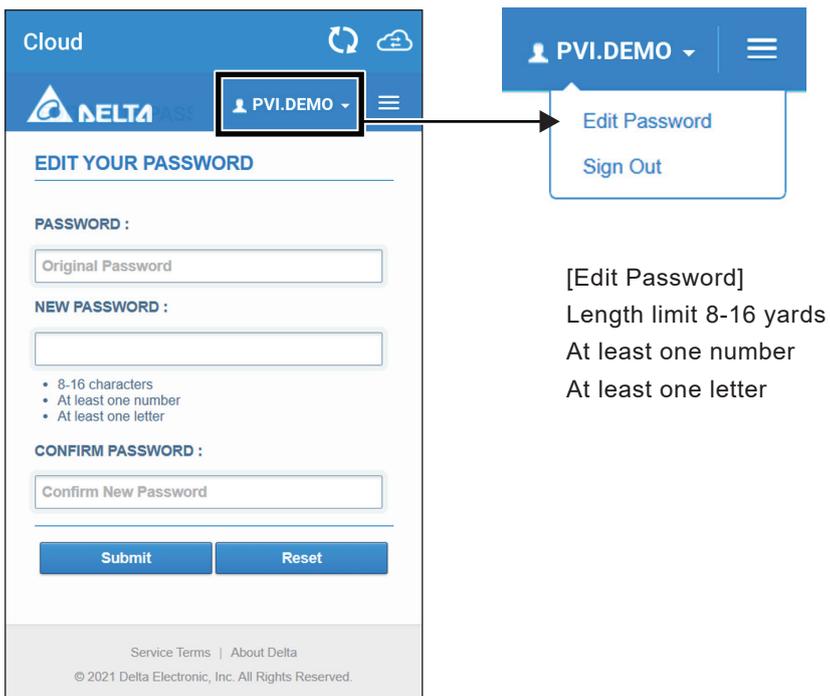
PHONE :

TITLE :

MESSAGE :

If you encounter any problems, please contact Delta Customer Service according to your location.

5.5. Edit Password



Cloud

PVI.DEMO ▾

EDIT YOUR PASSWORD

PASSWORD :

NEW PASSWORD :

- 8-16 characters
- At least one number
- At least one letter

CONFIRM PASSWORD :

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PVI.DEMO ▾

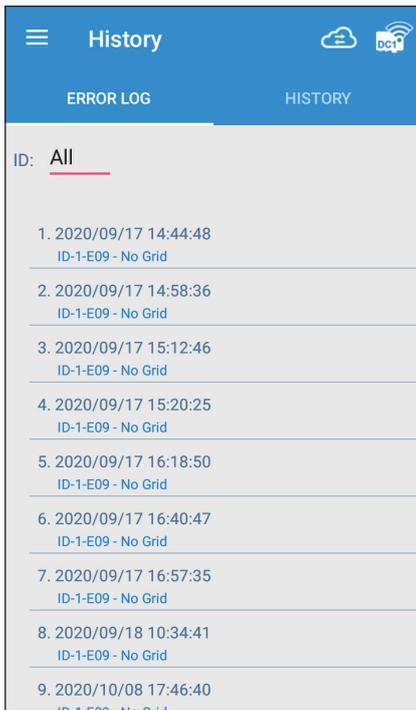
Edit Password
Sign Out

[Edit Password]
Length limit 8-16 yards
At least one number
At least one letter

6. Error Message and Trouble Shooting

6.1. Error Displays

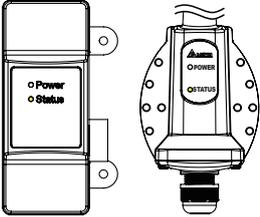
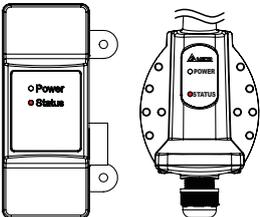
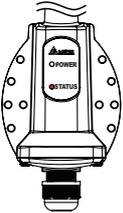
Please go to "History" from main menu and select device ID to check the error message.



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

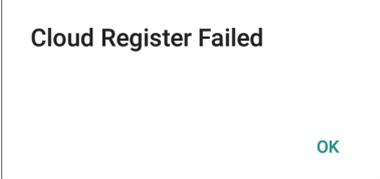
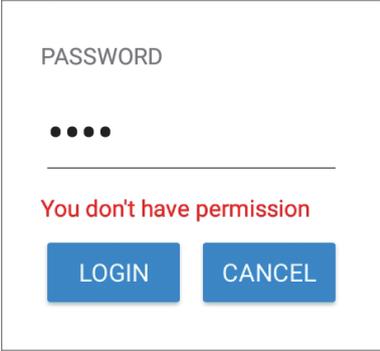
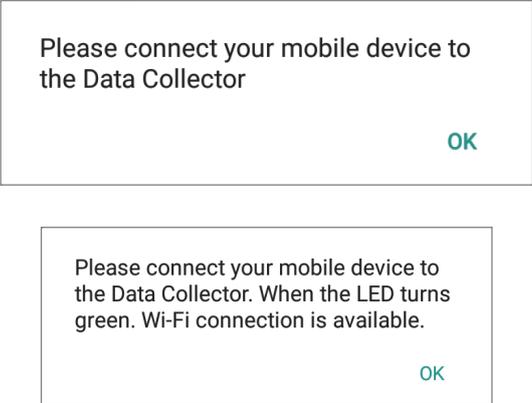
6.2.Troubleshooting

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 flashing 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 N2 does not connect to Inverter	Please confirm if N1 is assembled with Data Collector/ 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.

6.3. Error dialog display

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

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

Error indication	Contents	Workaround
<div data-bbox="188 248 571 436" style="border: 1px solid black; padding: 10px;"> <p>Search Wi-Fi failed</p> <p style="text-align: right; color: green;">OK</p> </div>	<p>DC1 scan Inverter fail</p>	<p>DC1 may have a short weak signal. Please retry the scan.</p>
<div data-bbox="156 533 608 689" style="border: 1px solid black; padding: 10px;"> <p>Please make sure N1 is correctly adapted to Data Collector</p> <p style="text-align: right; color: green;">OK</p> </div>	<p>N1 is not correctly assembled with Data Collector</p>	<p>Please confirm if N1 is assembled with Data Collector. If yes, re-assembled them again, please.</p>
<div data-bbox="156 813 608 969" style="border: 1px solid black; padding: 10px;"> <p>Scan Quality failed</p> <p style="text-align: right; color: green;">OK</p> </div>	<p>Scanning the quality of communication band is failed</p>	<p>Please confirm the LED light color of 'Status'. If the light color is red and flashing slowly, it means that the SUB_1G module initializing is not ready. Please wait a minute until the light color turns to green.</p>

