





The power behind competitiveness

# MyDeltaSolar Application

**Operation Manual** 



www.deltaww.com

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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.



### **1.2.Basic operation**

<u> </u>	1 2	$\equiv$ Grid Setting	<b>3</b>	Inverter WiFi
HOME	2	Vac Low Off Time	0.14	(Sub-1G RetroFit
Production	Da 3	Vac High On Slow	250	Data Collector ID 1
	wi <sup>4</sup>	Vac High Off Slow Time	601	
	Inde 5	Vac Low On Slow	0	Wi-Fi (Max 9)
	6	Vac Low Off Slow Time	655.35	Index Serial Number Password ID Section
HISTORY	7	GRID SETTINGS	VOLTAGE SET	Auto
	8	SAME MOI	DEL SET	
SETTING	9	Grid Settings - Frequenc	cy	
	10	F High Off	51.5 fm	CLIANGE INVERTER WI-FI PASSWORD
	CANCEL	F High On	50.05	Could Start With the second start with the s
		F High Off Time	0.08	

- 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.



Fill in the information and click " REGISTRATION".

REGISTER test123123@deltaww.com \*Email: \*Pass \*Confirm password: ······ Do you want to use MyDeltaSolar Cloud? O No Yes \*Plant name: testt Feed-in without Power Meter \*Plant type: \*Time Zone GMT+8 Country: Taiwan \*Location: O No Yes Please select the device type to which you want to Inverter O Data collector 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.



- 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.

Change Password	Use same password as for MyDeltaSolar     Cloud	MYDELTASOLAR CLOUD	User Account
CHANGE WI-FI PASSWORD OF DATA COLLECTOR Use same password as for MyDeltaSolar	Use a different password	User Account	Password:
Cloud Use a different password	New F	Email Address: @@gmail.com	Confi Passi Plasso wait
New Password:	Your 8 to :	Password: Confirm	
Show Password Your password must have:	Please wait for DC1 to modify wife setting	Password: Show Password	PV F
8 to 16 characters	Please wait to DCT to mounty will setting	PV Plant	Plar
Reset Set (13)		Plant Name: apptest	Cou
Ŭ	()	Time Zone: GMT+8	
	Pleas	SET INFO	Tim
			SET INFO

- 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 decription 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.

Please carry out the following instructions:	INTERNET CONNECTION	Please select target device's SSID	Cloud	ے 🕄 🗘
1. Disable the 'Mobile Data(3G/4G)' option in the system settings of your mobile device. This is necessary due to the system permission policies of	INTERNET CONNECTION	Router/Others		
Android & IOS. Click Here to turn off	Scan	*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.	TODAY ENERGY	
<ol> <li>Switch on Wi-Fi on your mobile device.</li> <li>Enter the password.</li> </ol>	Varifying the registered result with MyDeltaSolar Cloud	T 4G/3G(mobile data)	Total : 0.0 kWh	20 YEADS
Please enter the password from:Delta_00071 :	veniging the registered reduct man hyperatorial orota	<ul> <li>Mobile network can be used as an alternative internet connection. Only select mobile network if no Wi-Fi signals with internet are currently available. You will have to manually turn data ON/OFE as outfied</li> </ul>	1.0 W	201240
	Cloud register success.Do you want to go	WiFi Router	0.8 W	
NEXT I	to cloud page? (To go to cloud page. The mobile phone need to connect to an wifi router or use 3G/	Delta_00071  -48dBm	0.6 W	
TRY ANOTHER DE 17	4G)	DIRECT-NETWTN1NB1410msQV  -64dBm	0.4 W	
	NO YES	Delta-Office  -65dBm	0.2 W	
		Delta-Guest  -66d8m	0.0 W 0 3 6 9 12	15 18 21
		Delta-MFG  -66dBm	apptest	
		Delta-IoT  -67dBm	Q Taipei	
APP will request password if mobile device doesn't		TN01-ShowRoom  -72dBm		
know the password.		TP_Link_SI  -79dBm(Wesk)	0.0 kWh	

#### (Select "Ethernet" at step 17)

Network Setting		
Network Setting	dhcp	
Interface: Ethernet	static	
Protocol: dhcp		CANCEL
IP Address		_
Subnet Mask		
Gateway IP		
DNS1		
DNS 2		
SET INFO		

#### 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.

## 2.2.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.

	Router/Others Select the way you would like the data collector connects to	Please carry out the following instructions: 1. Disable the 'Mobile Data(3G/4G)' option in the system sattings of your mobile device. This is	*L Please wait	← New Plant
*F	*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.	necessary due to the system permission policies of Android & IOS. Click Here to turn off	Checking connection of : Delta-05P17C00003WA	*Plant Name: apptest
*(	46/36(mobile data) Mobile network can be used as an alternative internet connection. Only select mobile network if no Wi-Fi signals with internet are currently available. You will have to manually turn data OV/OFF an ordified.	2. Switch on Wi-Fi on your mobile device. 3. Enter the password.	Check complete!	*Country: Taiwan
	WiFi Router	Please enter the password from:Delta_00071 :	← New Plant	
ł	Delta-Guest  -5908m If your router Wi-Fi did not show up in the "Router" section	NEXT	*Plant Name: 1-16 characters	SET
I	above or is shown under a different section (Data Collector, Inverter) this may be because its SSID is similar to Delta devices. Please select your router Wi-Fi below if you did not select it above.	TRY ANOTHER DEVICE	*Country: Select Country	SET
	Delta-01V18901171V0 (-8488m(Week)	APP will request password if mobile device doesn't	*Location: No OYes SET	Location successfully determined.
		know the password.		

- 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.

← New Plant	Initial Settings	Initial Settings	change the username or password immediately.Never share your password with other persons and ensure that no other person gets access to your password.
*Pfant Name: apptest	Inverter ID: 1	Inverter ID: 1	Delta Electronics Inc. Is not liable for any misuse, unauthorized use or loss of your password. By selecting the checkbox below, you indicate that you understand the limitations of the information it
*Country: Taiwan	Country: Taiwan	Country: Taiwan	contains, that you agree to the terms and conditions stated above, and that you waive any and all claims of any kind and nature against Delta Electronics Inc., its officers employees affiliates or licensees with
*Location: No  Yes Grs.contron	Grid Code: TAIWAN	Grid Code: TAIWAN	respect to your use of this site or the information provided.By not selecting the checkbox, you will not be permitted to access the online services offered by Delta electronics Inc.
SET	SET	SET (11)	I had read and agree this declaration
U			
			(12)

- 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.

Change Password	Use same password as for MyDeltaSolar     Cloud	MYDELTASOLAR CLOUD	User Account
CHANGE WI-FI PASSWORD OF DATA COLLECTOR	Use a different password	User Account	Password:
Cloud Use a different password	NewF	Email Address: @@gmail.com	Confi
New Password:	Please wait Your	Password:	Please wait
Show Password	8 to 1	Password:	PV F
Your password must have: 8 to 16 characters	Please wait for DC1 to modify wifi setting	PV Plant	Your information has been saved.
Reset Set		Plant Name: apptest	
(13)	$\mathbf{O}$	Country: Taiwan	Соц
	Pleas	Time Zone: GMT+8	Tim
		SET INFO	SET INFO
		(15	

- 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 decription 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.

Please carry out the following instructions:	INTERNET CONNECTION	Please select target device's SSID	Cloud 🚺 🗔 🔿
1. Disable the 'Mobile Data(3G/4G)' option in the system settings of your mobile device. This is necessary due to the system permission policies of	INTERNET CONNECTION	Router/Others	
Android & iOS. Click Here to turn off	Scan	*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.	
2. Switch on Wi-Fi on your mobile device. 3. Enter the password.	Verifying the registered result with MyDeltaSolar Cloud	T 4G/3G(mobile data)	TODAY MONTH YEAR 20 YEARS
Please enter the password from:Delta_00071 :	rentying the registered result manifybertucoida oroud	<ul> <li>Mobile network can be used as an alternative internet connection. Only select mobile network if no Wi-Fi signals with internet are currently available. You will have to manually turn date ON/OFE exotified</li> </ul>	1.0 W
	Cloud register success.Do you want to go	WiFi Router	0.8 W
NEXT M	to cloud page? (To go to cloud page. The mobile phone need to connect to an wifi router or use 3G/	✓ Delta_00071  -48dBm	0.6 W
TRY ANOTHER DE 17	4G)	DIRECT-NETWTN1NB1410msQV  +64dBm	0.4 W
	NO YES	Delta-Office  -65dBm	0.2 W
		Delta-Guest  -66d8m	0.0 W 0 3 6 9 12 15 18 21
		Delta-MFG  -66dBm	andest
		Delta-IoT  -67dBm	
APP will request password if mobile device doesn't		TN01-ShowRoom  -72dBm	
know the password.		TP_Link_SI  -79dBm(Wesk)	0.0 kWh

#### (Select "Ethernet" at step 17)

Network Setting		
Network Setting	dhcp	
Interface: Ethernet	static	
Protocol: dhcp		CANCEL
IP Address		
Subnet Mask		
Gateway IP		
DNS 1		
DNS 2		
SET INFO		

#### 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.

	INVERTER	INVERTER	INVERTER
INVERTER	🖸 RS485 🚺 Wi-Fi 🗹 Sub-1G 🔲 RetroFit	🔲 RS485 🛄 Wi-Fi 🗹 Sub-1G 🔲 RetroFit	Please select communication Band and scan Quality     Scan Band: Group1     Scan
RS41 PASSWORD troFit	Data Collector ID: 1 Region: FCC BAND SELECTION	Data Collector ID: 1 Region: FCC BAND SELECTION	B Q B Q B Q 1 :100 2 :100 3 :100 4 :100 5 :100 6 :80
LOGIN CANCEL	Mode: Standard	Mode: Standard	SET DATA COLLECTOR BAND
	* Please select communication Band and scan Quality Scan Band: Group1 SCAN	* Please select communication Band and scan Quality Scan Band: Group1 SCAN	INVERTER SEARCHING
		B Q B Q B Q 1 100 2 100 3 100	SEARCH INVERTER
1 2 3 4 5 6 7 8 9 0			HANDSHAKING PROCESS
q w e r t y u i o p a s d f g h j k l	SET DATA COLLECTOR BAND	SET DATA COLLECTOR BAND	SUB-1G MONITOR ON
☆     z     x     c     v     b     n     m     조       ©1#     %     ☆      元     完成	Scanning Quality	B Set Successfully	Searching Inverter
$\triangleleft$ 0 $\Box$		OK V	

- 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".

$\equiv$ Connection $\textcircled{2}$	$\equiv$ Connection $\textcircled{2}$	≡ Connection 🖆 🗊	$\equiv$ Connection $\textcircled{2}$
INVERTER			INVERTER
Scan Band: Group1 SCAN	SET DATA COLLECTOR BAND	SET DATA COLLECTOR BAND	SET DATA COLLECTOR BAND
B Q B Q B Q 1 :100 2 :100 3 :100	INVERTER SEARCHING	INVERTER SEARCHING	INVERTER SEARCHING
Search complete. Please search again if your device is	SEARCH INVERTER	Handshaking is complete	SEARCH INVERTER
not in the list	Index serial Humber         ID         SHR RGSI           ✓         □         Auto           ✓         1         00003041         2           6         -64	OK (1)	Index denain Holmber         ID         Sink Rosi           Image: Comparison of the state of
	HANDSHAKING PROCESS	HANDSHAKING PROCESS	HANDSHAKING PROCESS
SEARCH INVERTER	START HANDSHAKING	START HANDSHAKING	START HANDSHAKING
	SUB-1G MONITOR ON	STEP1] Set ID success STEP2] Get information success STEP3  Sync time success	STEP1] Set ID success STEP2] Get information success STEP3  Sync time success
		SUB-1G MONITOR ON	SUB-1G MONITOR ON
HANDSHAKING PROCESS			(12)
START HANDSHAKING			
$\triangleleft$ $\bigcirc$ $\Box$	$\triangleleft$ $\bigcirc$ $\Box$	$\triangleleft$ 0 $\square$	$\triangleleft$ $\bigcirc$ $\Box$

- 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.

≡ Connection	Initial setting	Initial setting	Initial setting
INVERTER SET DATA COLLECTOR BAND INVERTER SEARCHING Sub-1G setting process is complete and Data Collector starts monitoring OK VI HANDSHAKING PROCESS START HANDSHAKING STEP1] Set ID success STEP2] Get information success STEP3] Sync time success STEP3] Sync time success	*Country Name: Select Country	Select Country Default IEEE1547_600V HECO_A_600V HECO_B_600V 1741_SA_600V CA_CSA_19_600V US_480_600V	*Country Name: M125HV IEEE1547_600V SET

- 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.

Change Password	Use same password as for MyDeltaSolar Cloud	MYDELTASOLAR CLOUD	
CHANGE WI-FI PASSWORD OF DATA COLLECTOR Use same password as for MyDeltaSolar Cloud	Use a different password	User Account	Password:
O Use a different password New Password:	Your password has been changed.	Password:	Confi Passi Please wait
Stow Password Your password must have: 8 to 16 characters	8- 	Password: Show Password PV Plant	PV F Your information has been saved.
Reset Set		Plant Name: apptest Country: Taiwan	Cou
		Time Zone: GMT+8	Tim
	•	SET INFO	SET INFO

- 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 decription 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.

1	Please carry out the following instructions:	INTERNET CONNECTION	P	lease select target device's SSID	7	Cloud			Č	<b>)</b> C®	2
I	1. Disable the 'Mobile Data(3G/4G)' option in the system settings of your mobile device. This is necessary due to the system permission policies of	INTERNET CONNECTION	R	outer/Others	Q		ELT/				≡
٩	Android & iOS. Click Here to turn off	Scan	+D do E pro	Due to the policy of Android & iOS system permission, if o not use '4G', then please turn off the mobile data befor ress the 'Next' button.	you re you		ODAY ENERGY				
Ve	<ol> <li>Switch on Wi-Fi on your mobile device.</li> <li>Enter the password.</li> </ol>	Verifying the registered result with MyDelteSolar Cloud	т (	4G/3G(mobile data)			otal : 0.0 kWh	VEAD	20 VEA		
	Please enter the password from:Delta_00071 :			Mobile network can be used as an alternative inte connection. Only select mobile network if no Wi-F signals with internet are currently available. You w have to manually turn data ON/OFF as notified.	net ill	1.0 W					
I	••••••	Cloud register success.Do you want to go	4	WiFi Router		0.8 W					
	NEXT I	to cloud page? (To go to cloud page. The mobile phone need to connect to an wifi router or use 3G/		✓ Delta_00071  -48dBm		0.6 W					
	TRY ANOTHER DE	4G)		DIRECT-NETWTN1NB1410msQV  -64dBm	- 1	0.4 W					
		NO YES	2	Delta-Office  -65dBm		0.2 W					
I				Delta-Guest  -66dBm		0.0 W	3 6	9 1	2 15	18	21
			Imlini	Delta-MFG  -66dBm				apptes	t		
			Draduet	Delta-IoT  -67dBm				V Q Taip	vei		
	APP will request password if mobile device doesn't			TN01-ShowRoom  -72dBm				Are Area			
	know the password.			TP_Link_SI  -79dBm(Weak)				0.0 kWh			

#### (Select "Ethernet" at step 17)

Network Setting		
Network Setting	dhcp	
Interface: Ethernet	static	
Protocol: dhcp		CANCEL
IP Address		_
Subnet Mask		
Gateway IP		
DNS 1		
DNS 2		
SET INFO		

#### 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.

Inverter WiFi WI-FI RS485 RetroFit Off On 5	WI-FI RS485 RetroFit	Inverter WiFi Wi-Fi RS485 RetroFit Off On	Please wait DC1 is getting info of WIFi inverter. Please wait and APP is trying to reconnect to DC1!
	Please wait Confirr Your ;	Data Collector ID 1	Please wait
CHANGE DC1 WI-FI PASSWORD New Password :	8 16 Please wait for DC1 to modify wifi setting	Search Wi-Fi (Max 9) Index Serial Number Password ID Section	DC1 is connected. Collecting WiFi inverter information
Confirm Password : Your password must have : 8 - 16 characters. ResetSet		I Delta- OSP19300583WD DELTASOL 1 1	Please wait Synchronization of time settings between
Data Collector ID 1		SET 8	DC1 and inverters successfully completed.

- 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.

Initial setting	Select Country	Initial setting	H5A_220 Success
*Country Name:	DENMARK	*Country Name:	Retrofit mode has been successfully
H5A_220	AU_SA	H5A_220	activated! Please switch the Gateway to the Solivia protocol and
DEFAULT	UK_G59_3_230V	TAIWAN	connect it to the DC1. The DC1 will then start searching for inverters.
SET	UK_G59_3_240V	SET m	an inverter with ID 1 on the RS485 bus. The search process can take up
	UK_G83_2_240V	(11)	to 6 minutes.
	PORTUGAL		

# **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 transmiss 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  $\equiv$  to the menu.
- 3. Click "SETTING".
- 4. Click "Network".

Login 🖻	Home 🗈 📾		참 номе
Email address: Show Email	energy today 0 Wh	HOME	Production
Password: Password Password Password	ENERGY TOTAL: 395.2 kWh TOTAL POWER : 0 kW	Production	
	Production 0.0 kW	info	
Do you want to use MyDeltaSolar Cloud?	Consumption	HISTORY	HISTORY
Yes	Time: Daily	SETTING	
CANCEL	2021 / 1 / 4		Connection
	- 10- - 		Grid Setting
	Production		Maintenance
			Other
	0 2 4 6 8 10 12 14 16 18 20 22 Hour		Contact Us

- 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.

≡ Network 🔄 🗟 🔊	= Network 🖆 📷	≡ Network 🖆 🔐	≡ Network 🖆 📾
CLOUD CHANGE NETWO CONNEC TIME	CLOUD CHANGE NETWO CONNEC TIME	CLOUD CHANGE NETWO CONNEC TIME REGISTE PASS RK TO	CLOUD CHANGE NETWO CONNEC TIME
User Account	Network Setting	Protocol: static dhcp	Protocol: static
Email:	Interface: Ethernet	IP Address static	IP Address
Password:	Would you like to use the MyDeltaSolar Cloud?	Subnet Mask	Changes saved
Plant Register	NO	Gateway IP	ОК
Plant Name:	Subnet Mask	DNS 1	DNS 1 8888
Country: Australia	Gateway IP		DNS 2 8888
Time Zone:	DNS 1		SET INFO
SET INFO		7	

- 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 sutiable 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".







### 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



①Main menu

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

②Switch to the cloud page

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

③Confirm Inverter connection status If the Inverter is disconnected, the disconnection icon will be displayed.



**4 ENERGY TODAY** 

Display Today Energy.

SENERGY TOTAL Display Total Energy.

6 Real-time value Display Production, Consumption, Feed-in, Purchased.

⑦Energy 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	
Month	
Year	
20 years	
	CANCEL

### [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.







# 4.3.Infomation

Display basic information about DC1 and Inverter.

$\equiv$ Information $\textcircled{a}$	$\equiv$ Information $\textcircled{a}$
Data Collector Info	Output
General Info	Voltage:3.7 V
Data Collector FW Version:82.24	Current:0.11 A
Serial Number:06H20300119WH	Power:u w
Connection Interface:Wifi	Operation Data
Energy Today:	Maximum DC Voltage:551.1
All Energy Total:14.8 kWh	Maximum AC Voltage:289.7 Min/Maximum Temperature:0/102°C
All Energy Today:0 kWh	
All Total Power:0 kW	String current
All Total VA:0 kVar	MPPT1:
Inverter Info	MPPT2: MPPT3:
	MPPT4:
Inverter ID: 1	MPPT5:
General Info	MPPT6:
Model Name:H5A_222	De-rating Log
Serial Number:09Y19700007W0	AC Overvoltage:
Inverter status:ALARM	AC Undervoltage:2020/12/24 15:13:31 1800
Warning:	DC Overvoltage:
Energy Today:	Overtemperature:
Total Energy:14860Wh	FW version
	COMM:02.07
Input	DSP:03.50
Voltage:0.1 / 100.7 V	RED:,
Current: 0 / 0 A	ARC/DSP2:
Power:0 / 0 W	CS:

[DC1\_Info]

- · General Info
- · Energy Today

#### [Inverter\_Info]

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

### 4.4.History

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



### [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.

All	
1	
2	
3	
	CANCEL

## 4.5.Connection

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

### [INVERTER]





### 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



### 4.7.Network

DC1 network related settings are introduced in this section.

[MYDELTASOLAR 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.

#### [MYDELTASOLAR CLOUD]

≡ Netw	ork	É	S 👼				
MYDELT CHANG ASOLA PASSW	GE NETWO V RK	INTERN ET	TIME				
User Account							
Email Address:		@gmail.com					
Password:							
Confirm Password:							
Show Pass	sword						
PV Plant							
Plant type:	Feed-in without	Power Meter					
Plant Name:	testtt						
Country:	Taiwan						
Time Zone:	GMT+8						
	SET INFO						

### [CHANGE PASSWORD]



### [NETWORK SETTING]

		ć	
MYDELT CHANGE ASOLA PASSW	NETWO RK	INTERN ET	
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		ć	B 👼
MYDELT ASOLA	CHANGE PASSW	NETWO RK	INTERN ET	TIME
INTERN	IET CONN	ECTION		
Scan				
	A-06H20300	116WH -22	2dBm	
🔿 Delta-	05P17C000	03WA -32c	lBm	
🔿 Delta-	O5Q185009	61W0 -35d	lBm	
🔿 Delta-	O5P193005	83WD -39c	lBm	
🔿 Delta-	Office -48d	Bm		
🔿 Delta-	MFG -48dB	m		
O Delta-09Y19700007W0 -48dBm				
O Delta-	PVT204005	850H -76d	Bm	
🔿 ZyXEL	77dBm			
Passwo	rd		Connec	
Sho	w password			

#### [TIME]



### 4.8.Maintenance / Update

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".

H2.5~H5A Flex H3A_222 H5A_222	Inverter Model: H5A_222 COMM0204 COMM0205	E Firmware Update 🖻 🔊	Load Hex File If your device is not on the list. Please click on scan and move closer to your device.
H45-522 H5-5J22 H6J_24 H6J H10E M6A~M10A	COMM0206 DSP0300 DSP0350	Inverter Model: H5A_222 Firmware Type: COMM0206 Downloading the firmware file	Serial Number dBm Status Delta-09Y19700007W0 -53
M30A M88H M100_210_EU CANCEL	取消	Load Hex File	Delta-05Q18500961W0 -47 Delta-05P17C00003WA -25 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".



- 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".



- 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.

Please select target device's SSID	≡ Maintenance 🖆 👼	😑 Maintenance 🖆 📸	≡ Maintenance 🖆 📷
Data Collector 😋 R	INVERTE DC1 FORWAR BACKUP REPLAC R FW FIRMW DING E	INVERTE DC1 FORWAR BACKUP REPLAC R FW FIRMW DING E	INVERTE DC1 FORWAR BACKUP REPLAC R.FW FIRMW DING E
DELTA-O6H20300116WH I-36dBm	DC1 Info	DC1 FW : 01.19 SN: 06H20300119WH	
F Z DELTA-06H20300119WH I-38dBm	DC1 FW : 01.19	DC1 FW Update	SN: 06H20300119WH
DELTA-O6H19600481WC 1-55dBm	DC1 EW Lindata	Dalta Server	DC1 FW Update
DELTA-O6H20A00731WK I-75dBm		Download Access:	Download Access: Delta Server
NEXT 9	Download Access: Delta Server	DOWNLOAD DC1 FW FILE	DOWNLOAD DC1 FW FILE
	DOWNLOAD DC1 FW FILE Download Status : Finished: V82.03	Download Status : Finished: V82.03	Download Status : Finished: V82.03
	Download Status : Finished: V82.03		DC1 FIRMWARE UPDATE
	Update Status : Sending file to DC1	te running. The data collector will then Statu restart and the LED light will turn red. s : This will take about 2 to 4 minutes.	Update Status : Data Collector upgrade is done.

### [BACKUP/RESTORE]

### [BACKUP]

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





### [RESTORE]

- 1. Plug in USB sitck 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-commision and register to the cloud.

- 1. Select the REPLACE INVERTER.
- 2. Select connection type.
- 3. Click "SEARCH", DC1 will strat 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

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]
≡ other 🝙 👼	= OTHER 🖆 📷	≡ OTHER 🝙 👼	≡ OTHER 🖆 👼
PARTIAL/ DRMO PHASE DRY ZERO DRMO INTERLOCK CONTACT	PARTIAL/ DRM0 PHASE DRY ZERO DRM0 INTERLOCK CONTACT	PARTIAL/ DRM0 PHASE DRY ZERO DRM0 INTERLOCK CONTACT	PARTIAL/ DRM0 PHASE DRY ZERO DRM0 INTERLOCK CONTACT
Info		ON () OFF	Event at which the relay is to trip:
Total power of Inverters: 0 kW	DRM0(%): 100 %	Status: Off	
Function: Partial/Zero Export			SAVE
Mode: 🔿 On 🧿 Off	Inverter remote: On	If this function is activated, all inverters operate synchronously and on all phases. If one or more inverters fell or disconnect from the original	
Rates: 0 %	Rates: 0 %		
Plant capacity: (kW)		few seconds.	
SAVE			

# 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



### 5.2.MY SOLAR



MY SOLAR
Support 🕨
Language 🕨

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.

Cloud	<b>()</b> 🖒
ENERGY HISTORY SETT	пид
AKO_	SUB1G_C1
🍋 7.5 °C -1.8°C / 4.2°	C   sunrise 07:05 sunset 17:29
DATA COLLECTOR :	C1 ~
INVERTER ID :	ALL ~
ITEMS :	Power Flow ~
DATE :	2021-1-28
	YEAR 020 YEARS
2 3 5 6 3-2 14 15 21 22 23 15.0 kW	Image: 7     8     9     10     11       16     17     18     19       24     25
10.0 kW 5.0 kW	

### [HISTORY - PLANT]

Display when this PLANT started

Cloud		ے 🕻
ENERGY HISTO	ORY SETTING	*
PLANT		IVERTER
PLANT NAME	AKO_SUB	1G_C1
ITEMS :	Startup	~
Plant Name	Tim	e
AKO_SUB1G_C1	2019-0	7-12
© 2021	Service Terms   About De Delta Electronic, Inc. All Right	lta is Reserved.

#### [HISTORY - DATA COLLECTOR]

Display start time or disconnection time of selected DATA COLLECTOR

Cloud			<b>()</b> 🖅
ENERGY HIS	FORY	SETTING	*
O PLANT	) DATA (		ERTER
DATA COLLE	CTOR :	O6H19600506	swc 🔻
ITEMS :		Disconnect	•
START DATE :		2021-1-27	
END DATE :		2021-1-27	
Data Collector		Start	End
06H19600506WC		2020-04-20 08:30:00	~
	Servio	ce Terms   About Delta	

### [HISTORY - INVERTER]

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

С	louc	I			Q	æ
ENI	ERGY	HISTORY	SETTING	6		•
0	PLAN	t 🔿 data	COLLECT	OR 💿 INVER	TER	
DA		OLLECTOR		01		~
IN	VERTI	ER ID :		ALL		~
ITE	EMS :			Event ~		
START DATE : 2021				021-1-28		
EN	ID DA	TE :	2	021-1-28		
ID		Time				
14	ID         Time         Event           14         2021-01-20 07:10:44         Ac Connected Fail (E08)					:08)
Service Terms   About Delta © 2021 Delta Electronic, Inc. All Rights Reserved.						

### [SETTING - PLANT]

PLANT Settings



### [SETTING - BLOCK]

ENERGY HISTORY SETTING

Cloud

BLOCK :

BLOCK NAME :

O6H19600506WC :

DEVICES :

2

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

O PLANT 
 BLOCK 
 DATA COLLECTOR 
 INVERTER

EDIT

BLOCK NAME

C C 🕾

4

.

### [SETTING - DATA COLLECTOR]

DATA COLLECTOR settings

### 🗘 💷 🔁 Cloud + ENERGY HISTORY SETTING O PLANT O BLOCK O DATA COLLECTOR O INVERTER DATA COLLECTOR : 06H19600506WC v EDIT COLLECTOR NAME : COLLECTOR NAME SERIAL NUMBER : 06H19600506WC MAC: F8369B0CACE3 Delete Service Terms | About Delta © 2021 Delta Electronic, Inc. All Rights Reserv

#### [SETTING - INVERTER]

Inverter settings

Cloud	0 🕫 🖨
ENERGY HISTORY SETTIN	• •
O PLANT O BLOCK O	DATA COLLECTOR 💿 INVERTER
DATA COLLECTOR :	06H19600506WC <b>v</b>
INVERTER ID :	2 🔻
	EDIT
INVERTER NAME :	INVERTER NAME
SERIAL NUMBER :	000000100
INVERTER ID :	2
Apply	Delete
Service Ter © 2021 Delta Electro	ms   About Delta nric, Inc. All Rights Reserved.

### 5.3.Products





Click to go manual download page.

### 5.4.Contact Us





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

### 5.5.Edit Password



# **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.

	£
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	

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.

<b>F</b>		I
Symptom	Verification details	Responsive action
System Ready Inverter Comm Internet Comm Internet Comm System ready light is red	DC1 is booting	Please wait two minutes for the boot to complete.
System Ready     Inverter Comm     Internet Comm     Inverter comm     Inverter comm light is     continuously flashing green light	DC1 is Searching or Setting inverters.	Please wait for 2-10 minutes for Inverter to search or set up.
O System Ready     O Inverter Comm     O Internet Comm     O Internet Comm     O Internet light constant	DC1 does not connect to internet	Please go to the NETWORK page to set network. please refer to section 4.7.
The LED Light of 'Status' flashes slow and changing color between green and yellow	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.
The LED Light of 'Status' turns red and slow flashing	N1 or N2 is booting	Please wait a minutes for the boot to complete.
The LED Light of 'Status' turns red and fast flashing	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
Cloud Register Failed	Register to cloud server fail	<ol> <li>Please confirm whether this DC1 has been registered on the cloud.</li> <li>Please confirm if Inverter has been registered on the cloud.</li> <li>Please confirm if DC1 has internet connection.</li> <li>Please confirm that the user account password is correct.</li> </ol>
timeout ок	Set wifi inverter time out	<ol> <li>Please confirm the communication quality between DC1 and inverter.</li> <li>Please confirm if Inverter has started.</li> <li>Please confirm if the smartphone is connected to DC1.</li> </ol>
PASSWORD •••• You don't have permission LOGIN CANCEL	Insufficient permission warning message	Please enter the correct permission password.
Please connect your mobile device to the Data Collector OK Please connect your mobile device to the Data Collector. When the LED turns green. Wi-Fi connection is available. OK	User is not connected to DC1	Please go to the smartphone WI-FI page and reconnect to DC1.

Error indication	Contents	Workaround
Search Wi-Fi failed	DC1 scan Inverter fail	DC1 may have a short weak signal. Please retry the scan.
Please make sure N1 is correctly adapted to Data Collector OK	N1 is not correctly assembled with Data Collector	Please confirm if N1 is assembled with Data Collector. If yes, re-assembled them again, please.
Scan Quality failed	Scanning the quality of communication band is failed	Please confirm the LED light color of 'Status'. If the light color is red and flashing slowly, it means that the SUB_1G module initializing is not ready. Please wait a minute until the light color turns to green.

