





DELTA ELECTRONICS, INC.



DeltaSolar Application

Operation Manual for Android system



www.deltaww.com

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1.DeltaSolar

1.1. Download



DeltaSolar

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



1.2. Basic operation

= ①	C Device Occurture Octation	2	Grid Settings - Connect	tion (3)	← Local Point-to-Point I	Monitoring (4)
- Monitor my plant	Select Country		Grid tie/Standalone Mode		ENERGY INFO HISTORY	
	Select a country	- 1	External Control		test123456	
Local monitoring	Australia	- 1	Orid Error Look			
Remote monitoring	Belgium	- 1	Gild Elfor Lock		DATA COLLECTOR: 06H20A00737W	к
Restore a DC1	France	- 1	Unlock Grid lock		ITEM: Production	
Create new plant or device	Germany	- 1	External Communication Detection(USB Key)	1:0N 0:0FF	Production 0.00	kW
View/Change shared plant list	Sweden		External Communication Detection(USB Key)	1:0N 0:0FF		
> Support	Taiwan	- 1	External Communication Detection Time	<u>30~600 seconds</u> s	Event	
	United Kingdom	- 1	SING	GLE SET	Disconnect	\sim
		Control	SAME N	IODEL SET	D Ctortup	0
		Cancel	Grid Settings - Voltage		Startup	0

- 1 Touch selection
- Press the item with your finger to move to the next screen.
- 2 Pull-down menu
 - The screen where the options are displayed in a list is called a pull-down menu.
- ③ Text bar

When you press a number or text, the system keyboard will appear for new characters to be entered.

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

4 Check box

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

(5) Option button

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

1.3. Workflow



1.4. List of APP Pages

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



1.5. Create an account

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



1.6. Homepage for new user



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

① Get plant info

Users can check the plant information which is shared by the

other plant owners.

For more details please refer to Chapter 3.4.

Function accessibility list

Authority / Function	Owner	Manager	Viewer
View plant information	\checkmark	\checkmark	\checkmark
View share list	\checkmark	\checkmark	\checkmark
Plant setting (Remote)	\checkmark	\checkmark	ß
Plant setting (Local)	Pa please	assword need contact local	led, service.
Change device password	\checkmark	0	P
Edit share list	\checkmark	0	0

Viewer	0	le le
No.	Name	Email address
1		
2		
3		

② Create new plant/device

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

3 DELTA demo plant

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

2.Commissioning

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

Next step - connect to inverter(s) **Data Collector ID** ← Search Device DELTA-06H20A00732WK -29dBm Data Collector DELTA-09D20100013WA -60dBm C' SCAN Next step - connect to inverter(s) DELTA-06H19400bbbWA -65dBm DELTA-06H20A00737WK -34dBm Max. number of Devices **(i)** supported: Inverter (i) Delta-09Y19800016W0 -37dBm [Not On Cloud] Wi-Fi ≦ 9 Delta-09Y19700007W0-1 -39dBm [On Cloud] DC1 firmware upgrade is required RS-485 ≦ 32 due to the current version is lower than the minimum requirement. Wi-Fi + RS-485 ≦ 32 Yes : Connect to network to download the latest FW version. No : Upgrade the DC1 to SUB_1G ≦ 25 V2.xx(minimum requirement) Please enter the number of devices connected via **RS485**: 32 No Yes Submit 题

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

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

Device ID Setting Data Collector 1 ID Selected Device: 0 Inverter Auto ID ID Retrofit ? 💙 Wi-fi / Max. 9 Serial Number Set ID Password Delta-PVT206006800H-1 1 DELTASOL DELTASOL Delta-PVT206006840H 1 Delta-PVT197030820E 1 DELTASOL C RS-485 / Max. 32 Serial Number Set ID

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

← Device ID Setting				
- ID				
Selected Device: 1				
Inverter Auto ID				
Wi-fi / Max. 9				
Serial Number Set ID Pa	ssword			
Delta -35 d				
Delta -49 d Do you need to set up the power Delta -49 d				
□ Detta -49 d Skip Yes				
-49 dBm				
Delta-PVT197030780E 1 DELTASOL				
Delta-05018500961W0 1 DELTASOL				

Power Meter Setting Select Meter **RS-485** C' SCAN Internal meter of inverter VT206006800H Inverter ID:1 SKIP

Select the meter device for monitoring.

Select the target device and click "SET". App will start FW update for DC1.

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

Please fill-in RS-485 device quantity.

0

Select a grid code and click "SET".

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

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

← Device Country Setting	\leftarrow MyDeltaSolar Cloud Registrat	← Change Password
Grid Code Category Australia Grid Code AU_WP		Please change the device password. New Password must be 8-16 characters Ø Confirm Password
Click "NEXT"	MyDeltaSolar Cloud provides your power generation data to monitor your plant remotely. CONNECT TO THE CLOUD SKIP	SET 📷

Select the network interface and click "SET".

← Cloud Register	Select "Ethernet"	
Connect device to Internet with Ethernet Wi-Fi C ² SCAN	Connect device to Internet with Ethernet Auto IP (DHCP)	Auto IP (DHCP) System will automatically assign an IP address.
 Delta-05P17C00003WA -27dBm Delta-09Y19800016W0 -30dBm Tenda_EDE3A0 -54dBm DELTA-06H19600509WC -56dBm 	Subnet mask	 Set IP 1. IP Address: Please enter a specified IP address. 2. Subnet Mask: Please enter a subnet mask. 3. Gateway IP: Please enter the IP address of the router.
	Gateway IP DNS 1 DNS 2 DNS 2	 4. DNS1: Please enter DNS1 for the network. 5. DNS2: Please enter DNS2 for the network. 6. Click "SET" to complete the setup.

Select the plant type and assign a name to Fill in the e-mail address to assign the the plant. Click "Get Location" for the GPS position and click "SET".

the plant an owner.

÷	Plant Se	tting	Owner Setting			MyDeltaSolar users for managing and monitoring purpose.
	New Plant		You are current the manage owner now or later.	r, you may ass	ign the plant	Email address
	Plant type	Feed-in with power meter	Authority	Owner	Manager	
			View plant information	\checkmark	\checkmark	
	Plant Name	test1234567	View share list	\checkmark	\checkmark	
			Plant setting	\checkmark	\checkmark	
		🙎 Get location	Change device password	\checkmark	8	SUCCESS
		(m)	Edit share list	\checkmark	٥	
		Ŭ	Assign to			<u>test1234567</u>
			Email address has been connected on MyDeltaSolar			has been connected on MyDeltaSolar Cloud
			I am owner.			
		SET M	s	et 🕅		

About owner setting...

- During commissioning, the installer will be set as default, the manager of the plant. Or the installer can assign himself as the plant owner. - If the assigned email address has not yet been registered to MyDeltaSolar Cloud, an invitation will be sent to this email address.
- When in an environment without Internet, the commissioned plant will be saved in the app
- and send to the cloud later when Internet is available.
- After commissioning success, the plant info (including device password) will be sent to the cloud. And a success notification will be sent to the plant owner.
- ♥Tainan City Taiwan Notice icon

New Plant

- When no owner has been assigned to the plant, there will be a pop-up message every time when selecting the plant (until an owner has been set.)

2.2. Wi-Fi Inverter

Select the target device and click "SET".

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

Select a grid code and click "SET".

Click "Connect to the Cloud" to use

click "Skip" to go to "Plant setting".

MyDeltaSolar Cloud monitoring service or

← Search Device	← Device ID Setting	← Device Country Setting
DELTA-06H20300119WH -63dBm [Not On Cloud]		
DELTA-06H20A00731WK -69dBm [Not On Cloud]	Inverter ID Auto	Grid Code Category Australia
Inverter	Serial number Set ID	
Delta-09Y19700007W0-1 -39dBm [Not Chi Cloud]	Delta-O9Y19800016W0 1	
Delta-05Q18500961W0 -44dBm [Not On Cloud]		SET 🕅
Delta-PVT197030780E -66dBm [Not On Cloud]	SET	
Delta-PVT206006790H -67dBm [Not On Cloud]		
Seree	Click Auto button, the APP will set the device ID automatically.	

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

Click "NEXT".

l



Set a new password to the device and

click "SET".

Select the network interface and click "SET".

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

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

← Cloud Register	← Plant Setting		Owner Setting		
Connect device to Internet with	Vew Plant		You are current the manage owner now or later.	r, you may ass	ign the plant
Ethernet	Plant type	Feed-in without power meter	Authority	Owner	Manager
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		View plant information	\checkmark	\checkmark
Wi-Fi (* SCAN	Plant Name	test1234567	View share list	\checkmark	\checkmark
Delta-05P17C00003WA -27dBm			Plant setting	\checkmark	\checkmark
Delta-09V19800016W0 -30dBm		🙎 Get location	Change device password	\checkmark	8
		(m)	Edit share list	\checkmark	8
Tenda_EDE3A0 -54dBm		\bigcirc			
DELTA-O6H19600509WC -56dBm			Assign to		
			Email address		
Ø			I am owner.Do it later.		
SET 🐚		SET	s	ET	



About owner setting...

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



2.3. Battery Storage System (DC1)

Select the target device and click "SET".

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

Please fill-in RS-485 device quantity.



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

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

Ц

\leftarrow Device ID Setting				
Data Collector 1				
Selected Device: 0				
Inverter Auto ID				
Wi-fi / Max. 9				
Serial Number Set ID Password				
Delta-PVT206006800H-1 1 DELTASOL				
Delta-PVT206006840H 1 DELTASOL				
Delta-PVT197030820E 1 DELTASOL				
RS-485 / Max. 32				
Serial Number Set ID				
SET T				
Click Auto button, the APP will set the device ID automatically.				

Power Meter Sett	ting		
Select Meter			
RS-485			
Internal meter of inver	rter erter ID:1 SET		
Select a grid code and click "SET".			
← Device Cou	untry Setting		

Grid Code Category Australia Grid Code AU_WP Click "NEXT".



Select VSG Function and Backup Power Type.

← VSG/ATS Setting					
BX63_AC100					
VSG Function : OFF OFF ON					
Backup Power Type : Internal ATS					
SAVE					

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

÷	Battery SN/SOH			
ID:1	O9H19A00003W0			
Battery	Type: 🗹 BX6.3_AC 🔲 BX12.6_AC			
Time So MM):	chedule for SOH-Cycle(DD/ <u>8</u> / <u>6</u>			
	SAVE			
* Once a year the BX6.3 must do a FULL un-interrupted discharge and re-charge cycle. This will be completed and undertaken at a scheduled day and time as above. Should the temperature of the battery be below 20 degrees Celsius the battery will postpone the process for 3 months				
When the S/N	select "BX12.6_AC", please type in N of BX6.3_EX100.			
ID:2	09H19A00003W0			

ID:2 09H19A00003W0				
Battery Type: 🔲 BX6.3_AC 🗹 BX12.6_AC				
SN: 0AN1234567899				
$\begin{array}{llllllllllllllllllllllllllllllllllll$				
Last Update Time: Next Update Time: 2022/06/08 00:00:00				

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

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

← MyDeltaSolar Cloud Registrat	← Change Password
	Please change the device password. New Password must be 8-16 characters of Confirm Password SET

Select the network interface and click "SET".

← Cloud Register	Select "Ethernet"	
Connect device to Internet with	Connect device to Internet with Ethernet Auto IR (DHCD)	Auto IP (DHCP) System will automatically assign an IP address.
 Wi-Fi C² SCAN Delta-05P17C00003WA -27dBm Delta-09Y19800016W0 -30dBm Tenda_EDE3A0 -54dBm DELTA-06H19600509WC -56dBm 	Subnet mask	 Set IP 1. IP Address: Please enter a specified IP address. 2. Subnet Mask: Please enter a subnet mask. 3. Gateway IP: Please enter the IP address of the router
	DNS 1	 4. DNS1: Please enter DNS1 for the network. 5. DNS2: Please enter DNS2 for the network. 6. Click "SET" to complete the setup.

Select the plant type and assign a name to Fill in the e-mail address to assign the the plant. Click "Get Location" for the GPS position and click "SET".

the plant an owner.

÷	Plant Se	tting	Owner Setting			MyDeltaSolar users for managing and monitoring purpose.
	New Plant		You are current the manage owner now or later.	r, you may ass	ign the plant	Email address
	Plant type	Feed-in with power meter	Authority	Owner	Manager	
	i idini ijpo		View plant information	~	\checkmark	
	Plant Name	test1234567	View share list	\checkmark	\checkmark	
			Plant setting	\checkmark	\checkmark	
		🙎 Get location	Change device password	\checkmark	٢	SUCCESS
		(m)	Edit share list	\checkmark	3	
		Ŭ	Assign to			test1234567
			Email address			has been connected on MyDeltaSolar Cloud
			Do it later.			
		SET m	s	et 🕥		

About owner setting...

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



2.4. Battery Storage System (BX series)

Select the target device and click "SET".

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

Select a grid code and click "SET".

← Search Device	← Device ID Setting	← Device Country Setting
DELTA-06H20300119WH -63dBm [Not On Cloud]		
DELTA-06H20A00731WK -69dBm [Not On Cloud]	Inverter ID Auto	Orid Orde Ortegory Australia
	Serial number Set ID	
Delta-09Y19800016W0 -37dBm [Not On Cloud]	Delta-09Y19800016W0 1	
Delta-09Y19700007W0-1 -39dBm [On Cloud]	-36dBM	
	SET	SET M
	Click Auto button, the APP will set the device ID automatically.	SET ADVANCED NEXT

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

Select VSG Function and Backup Power Type.

← VSG/ATS Setting					
_					
OFF	ON				
Internal A	TS	_			
SAVE A)				
Click "NEXT".					
SAVE					
MULTIPLE SET					
NEXT M					
	Setting OFF Internal A SAVE (*** ULTI LE SET SAVE ULTIPLE SET NEXT (***	Setting OFF ON Internal ATS SAVE SAVE SAVE SAVE NEXT			

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

	Batte	ery SN/SO	Н			
ID:1	09H19A	00003W0				
Battery	Туре: 🔽	BX6.3_AC		BX12.	6_AC	
Time S MM):	chedule fo	or SOH-Cycle(I	DD/	8	/	6
		SAVE				
un-inte will be and tim battery postpo	rrupted di completed ne as abov be below ne the pro	scharge and r I and undertal e. Should the 20 degrees Co cess for 3 mo	e-cha ken a temp elsius nths	rge cy t a sch erature the ba	cle. 1 edule e of th attery	This ed day ne will

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

← Battery SN/SOH	
ID:2 09H19A00003W0	
Battery Type: 🔲 BX6.3_AC 🗹 BX12.6_AC	
SN: OAN1234567899	
Time Schedule for SOH-Cycle(DD/ 8 /	б
Last Update Time:	
Next Update Time: 2022/06/08 00:00:00	
SAVE	
* Once a year the BX6.3 must do a FULL un-interrupted discharge and re-charge cycle. Th will be completed and undertaken at a scheduled and time as above. Should the temperature of the battery be below 20 degrees Celsius the battery w postpone the process for 3 months	iis day vill

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



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

MyDeltaSolar Cloud Registrat...

 WyDeltaSolar Cloud Registrat...

 WyDeltaSolar Cloud Provides your power generation data to monitor your plant remotely.

 CONNECT TO THE CLOUD

 SKIP

Select the network interface and click "SET".

← Cloud Register				
Connect device to Internet with				
Wi-Fi C' SCAN				
Delta-05P17C00003WA -27dBm				
Tenda_EDE3A0 -54dBm DELTA-06H19600509WC -56dBm				
SET 🚬				

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

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

÷	Plant Set	ting	Owner Setting			MyDeltaSolar users for managing and monitoring purpose.
 Image: A start of the start of	New Plant		You are current the manag owner now or later.	jer, you may ass	ign the plant	Email address
	Plant type	Battery storage with power mete	Authority	Owner	Manager	
	Plant type		View plant information	~	\checkmark	
	Plant Name	test	View share list	\checkmark	\checkmark	
	r lant Name		Plant setting	\checkmark	\checkmark	
			Change device password	\checkmark	٢	SUCCESS
			Edit share list	\checkmark	8	
		Ŭ	Assign to			<u>test</u>
			Email address			has been connected on MyDeltaSolar Cloud
			I am owner.			
			Do it later.			
		SET m		SET		

About owner setting...

- During commissioning, the installer will be set as default, the manager of the plant. Or the installer can assign himself as the plant owner.

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



3.Bluetooth 3.1. Connection

Enable the Bluetooth function of your mobile device.

0



3.2. Bluetooth menu

There are 3 tabs for Bluetooth menu.

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

[HISTORY]

← Bluetooth menu				
ORY LOCAL SETTING				
Event Log				
2021/12/21				
2021/12/21				
7				
2021/12/13 上午 12:00:00				
E09 - No Grid				

[LOCAL SETTING]

\leftarrow Grid Setting	
Select Inverter ID:	1
Selected inverter model:	RPI-M88H
Inverter ID	
Inverter ID	1
INVER	ITER ID SET
Installation Settings	
Country	TAIWAN
	SET
SAME	MODEL SET
Insulation Mode	ON
Insulation Resistance	150 kΩ

3.3. Commission

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

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

← Bluetooth menu	← Grid Setting			
INFO HISTORY LOCAL SETTING	Select Inverter ID:	1		1
	Selected inverter model:	M100_280		2
Grid Setting <	Inverter ID			3
Grid Setting	Inverter ID	1		4
	INVERTER	ID SET		6
	Installation Settings			·
	Country	TAIWAN		
Grid Setting <	SET		\leq	Select Country
Grid Setting	Insulation Mode	ON		FR_400V_50H_SEI4_18
() Service people only	Insulation Resistance	250 kΩ	9	FR_400V_VFR2019_19
SERVICE CODE	RCMU	ON	r	FRANCE_ISLAND_60HZ
••••	EPO 1 (External power off)	Normal Open	ì	DE_400V_4110_18
				DE_400V_4105_18
	AC connection	3P4W	1:	TAIWAN
Cancel Submit	Relay 1 (dry contacts)	Disable		

4. Description of the page display

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



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

4.1. Homepage



1 Main menu

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

2 User menu

Change language, Sign out.



③ Power generation

Showing today's power generation and total power generation.

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

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

④ Battery capacity

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

(5) Power generation map

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





Showing the name of each plant and the power generated.

Definition of Status Icon



Plant on cloud With cloud icon



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



4.2. Monitor my plant



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

1) This icon \Xi

can change the sorting method of the plant list.

(Local monitoring only)

② Signal strength of the plant device.

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



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



Slide to the left, users can delete the plant.

- * The deleting here will only remove the plant info for this account. It will not affect the other person who has also the authority for the plant.
- * When the last owner deleted this plant, the plant info will be totally removed from the cloud.



4.2.1. Local monitoring

There are six tabs in "Local monitoring."

[ENERGY]



[INFO]

← Local Po	int-to-Point	Monitoring	J
ENERGY INFO	HISTORY	CALENDAR	LOCAL
	0902		
BLOCK 🔲 INVE	RTER		
DATA COLLECTOR:	06H20A00737V	/K	
nfo			
Serial Number	06H20A00737	WK	
Vodel	DC1_100		
Meter Quantity	0		
Firmware Version	83.06		
Energy			
Foday Energy	0.0 kWh		
Total Life Energy	14.8 kWh		

[HISTORY]

	INFO	HISTORY	CALENDAR	LOCALS
		0902		
BLOCK (INVER	TER		
DATA COLLI		6H20A00737V	VK	
ITEM:	S	tartup Log		
Startup Lo	og			
Data Colle	ctor	O6H20A007	37WK	
Time		2021/8/5 上台	F 12:00:00	

[CALENDAR] * DC1 only

← Local Point-to-Point Monitoring					
INFO	HISTORY	CALE	NDAR	LOCAL SE	TTING F
		09	02		
			2021/9		
 Produ Consu 	ction Imption	PurcFeed	hased I-in	ChaDis	arge charge
Sun.	Mon.	Tue.	Wed.	Thu.	Fri.
			1	2	3
5	6	7	8	9	10
12	13	14	15	16	17
19	20	21	22	23	24

[LOCAL SETTING]

←	Local Po	int-to-Point Mc	onitoring
ORY	CALENDAR	LOCAL SETTING	PLANT SETTING
		0902	
چ م	o Connecti	on 🗸	
'	Grid Sett	ing 🗸	
	Network	~	
Ċ) Maintena	ince 🗸	
ŝ	Function	Setting \checkmark	
	Change	Device Passwo	ord

[PLANT SETTING]





Connection of Inverter



Connection of DC1



INFO

Connection of Inverter -

← Loc	al Poir	t-to-Poin	t Monitoring
	INFO	HISTORY	LOCAL SETTING
		0913	
Info			
ID	1		
Serial Numb	er C	9Y19800016	wo
Model	F	I5A_222	
Status	S	TANDBY	
Country	Д	U_WP	
Energy			
Today Energ	у О	.0 Wh	
Total Life En	ergy 4	9900.0 Wh	
Input			
Voltage	0	.00 / 0.00 V	
Current	0	A 00.0 / 00.	
Power	0	/ 0 W	
Output			
Voltage	0	.00 V	
Current	0	.00 A	
Power	0	W	
Meter Info			
Voltage	1	20.20 V	
Current	0	.32 A	
Power	0	W - Feed-in	
Meter Status	s C	ff	

Connection of DC1 –

← Local Po	pint-to-Point	Monitoring]	[BLOCK]
ENERGY INFO	HISTORY	CALENDAR	LOCAL S	
	0902			
BLOCK 🔲 INV	ERTER			
DATA COLLECTOR:	06H20A00737V	VK		
Info				
Serial Number	06H20A00737	WK		
Model	DC1_100			
Meter Quantity	0			
Firmware Version	83.06			
Energy				
Today Energy	0.0 kWh			
Total Life Energy	14.8 kWh			

🔶 Local P	oint-to-Point Monitoring					
ENERGY INFO HISTORY CALENDAR LOC						
	0902					
🔲 BLOCK 🔽 INV	/ERTER					
DATA COLLECTOR	: 06H20A00737WK					
INVERTER ID:	1					
Info						
ID	1					
Serial Number	O9Y19700007W0					
Model	H5A_222					
Status	Check DC					
Country	AU_WP					
Energy						
Today Energy	0.0 Wh					
Total Life Energy	14860.0 Wh					
Input						
Voltage	1.10 / 1.20 V					
Current	3.20 / 2.32 A					
Power	3.00 / 2.00 W					
Output						
Voltage	119.20 V					
Current	0.71 A					
Power	0.00 W					

[INVERTER]

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

Connection of Inverter –

[Event Log]

← Loca	I Point-to-Point Monitoring
ENERGY II	NFO HISTORY LOCAL SETTING
	0913
ITEM:	Event Log
START DATE:	2021/9/13
END DATE:	2021/9/13
Event Log	
ID	7
Time	2021/12/13 上午 12:00:00
	\bigcirc \triangleleft

[Startup Log]

ENERGY INFO HISTORY LOCAL SETTING 0913 ITEM: Startup Log ID 1 Time 2021/8/5 上午 12:00:00	Local Point-to-Point Monitoring					
U913 ITEM: Startup Log ID 1 Time 2021/8/5 上午 12:00:00		O HISTORY	LOCAL SETTING			
ITEM: Startup Log ID 1 Time 2021/8/5 上年 12:00:00		0913				
Startup Log ID 1 Time 2021/8/5 上年 12:00:00	ITEM:	Startup Log				
ID 1 Time 2021/8/5 上午 12:00:00	Startup Log					
	ID Time	1 2021/8/5 上午	12:00:00			
		\bigcirc	\triangleleft			

[Derating Log]

← Local Point-to-Point Monitoring					
ENERGY I	NFO HISTORY LOCAL SETTING				
	0913				
ITEM:	Derating Log				
START DATE	2021/9/13				
END DATE:	2021/9/13				
Over Voltage	AC				
ID	7				
Start Time	2021/10/16 下午 12:31:24				
Total Time	00:01:46				
Under Voltag	ge AC				
ID	-				
Start Time	-				
Total Time	-				
Over Voltage	e DC				
ID	-				
Start Time	-				
Total Time	-				
Over Tempe	rature				
ID	-				
Start Time	-				
Total Time	-				

Connection of DC1 —

← Local Point-to-Point Monitoring	[BLOCK]	← Local	Point-to-Point	Monitoring	J
ENERGY INFO HISTORY CALENDAR LOCAL S	E		IFO HISTORY	CALENDAR	LOCAL S
0902			0902		
BLOCK 🔲 INVERTER		🗌 BLOCK 🔽 II	NVERTER		
DATA COLLECTOR: 06H20A00737WK	D	DATA COLLECTO	OR: 06H20A00737V	VK	
ITEM: Startup Log	11	NVERTER ID:	All		
Startup Log	п	TEM:	Event Log		
Data Collector O6H20A00737WK	s	START DATE:	2021/9/	2	
Time 2021/8/5 上午 12:00:00	E	END DATE:	2021/9/	2	
		Event Log			
		ID	1		
		Time	2021/12/13	上午 11:10:13	
		Event	E09 - No Gri	d	
		ID	2		
		Time	2021/12/13	上午 11:06:28	
		Event	E09 - No Gri	d	
	J L				

CALENDAR

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

Connection of DC1



LOCAL SETTING

Connection of Inverter



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

Connection of DC1

← Local Point-to-Point Monitoring						
DRY CALENDAR LOCAL SETTING PLANT SETTING						
0902						
∽ Connection ∨						
Grid Setting ✓						
Network V						
Maintenance V						
$\{ \bigcirc \}$ Function Setting \checkmark						
Change Device Password						

PLANT SETTING

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

Connection of Inverter

← Local Point-to-Point Monitoring						
HISTORY LOCAL SETTING PLANT SETTING						
0913						
PLANT NAME:	0913					
COUNTRY:	Default					
CITY: Default						
	SET					

Connection of DC1

← Local Point-to-Point Monitoring						
DRY CALENDAR LOCAL SETTING PLANT SETTING						
		0902				
PLA	NT NAME:	0902				
COU	NTRY:	Default	_			
CITY	5. 5.	Default				
SET						

4.2.2. Remote monitoring

There are five tabs in "Remote monitoring."

[Energy] ← Remote Access Service 23.4 °C 15.9°C / 27.4°C | sunrise 22:11 sunset 09:17 PLANT O INVERTER DATE : 2021-11-10 OAILY OMONTH OYEAR O20 YEARS Production : 0.000 kW Energy : 0.000 kWh ШQ Power 0.8 W 0.6 W 0.4 W 0.2 W 0.0 W-6 12 15 18 21 Next Update Time : 2021-11-10 10:39:8 Plant Type : Feed-in without Power Meter

[History]

[Calendar]



[Plant Setting]



[Remote Setting]



Connection of Inverter

[PLANT]

← Remote Access Service					
ENERGY	HISTORY	CALENDAR	REMOTE SETTING		
👛 23.	4 °C 15.9°C / 2	27.4°C sunrise	22:11 sunset 09:17		
PLANT		2			
DATE :		2021-11-1	0		
DAILY	Омонтн О	YEAR O20 YEA	ARS		
Production :	0.000 kW En	ergy : 0.000 kWł	1		
			шQ		
Power 1.0 W					
0.8 W					
0.6 W					
0.4 W					
0.2 W					
0.0 W	3 6	9 12 *	15 18 21		
Next Update Plant Type :	Time : 2021-1 Feed-in withou	1-10 10:39:8 It Power Meter			

[INVERTER]



	~
More Info.	۲
Power Flow	0
DC V/I	9y
AC V/I	0







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

Connection of DC1

[PLANT]

← Remote Access Service						
ENERGY	HISTORY	CALENDAR	REMOTE SETTING			
🐔 24.	6 °C 15.8°C / 2	27.3°C sunrise	06:11 sunset 17:17			
PLANT	O DATA COI	LLECTOR 🔿 IN	VERTER			
DATE :		2021-11-1	0			
DAILY	Омонтн С	YEAR O20 YE	ARS			
Production : Consumptio Energy : 0.0	0.000 kW Fe n : 0.000 kW 00 kWh	ed-in : 0.000 kW Purchased : 0.00	o kW			
Image: Peed-In Purchased Power Consumption 1.0 W 0.8 W 0.6 W 0.6 W 0.6 W 0.6 W 0.0 W 0.1 W 0.1 W 0.1 W 0.2 W 0.1 W 0.1 W 0.1 W 0.1 W 0.0 W 0.3 G 9 12 15 18 21 Next Update Time : 2021-11-10 15:48:56						
Plant Type : Feed-in with Power Meter						

[DATA COLLECTOR]



More I	nfo.	20	21-9-2		0
Power Flow 💿				•	
← Rem	ote Acces	29	Servic	<u>ъ</u>	
ENERGY H	ISTORY C	ALI	ENDAR	REMOTE	SETTING
്∆ 24.6 °C	15.8°C / 27.3	°C	sunrise	06:11 sunset	t 17:17
	DATA COLLEC	сто		VERTER	
DATA COLLE	CTOR :	0	6H20A0	0732WK	~
ITEMS :		М	ore Info		~
Info.					
Data Collector	Serial Numbe	er	Model	Meter Quantity	FW Version
06H20A00732WK	O6H20A00732WK		DC1_100	1	2.03
Energy					
Data Collector	Today Energy		Life Energy		
06H20A00732WK	0.0 kWh		0.0 kWh		

[INVERTER]



_			_
IN	More Info.		
	Power Flow	0	
ID 1	DC V/I	0	r Vh
ID	AC V/I	0	





Connection of Inverter

[PLANT]

← Remote Access Service							
ENERGY	HISTORY	CALENDAR	REMOTE SETTING				
PLANT NAME : TEST							
ITEMS :		Startup	~				
Plant Name		Time					
test		2021-11-10	10:30:36				
I	11	Ο	<				

[INVERTER]

Event	0021-0-12
Disconnect	0
Startup	0
← Remote Acc	ess Service
O PLANT O INVERTER	CALENDAR REMOTE SETTING
INVERTER ID :	ALL ~
ITEMS :	Disconnect ~
START DATE :	2021-11-10
END DATE :	2021-11-10
ID Start	End

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

Connection of DC1

[PLANT]

← Remote Access Service			
	HISTORY	CALENDAR	REMOTE SETTING
PLANT (DATA CO		VERTER
PLANT NA	ME :	TEST	
ITEMS :		Startup	~
Plant Name		Time	2
test		2021-11-10	14:43:43
I	1	Ο	<

[DATA COLLECTOR]

← Remote Access Service				
ENERGY HISTORY	CALENDAR	REMOTE SETTING		
O PLANT O DATA COL	O PLANT			
DATA COLLECTOR :	06H20A00	732WK ~		
ITEMS :	Disconnect	t v		
START DATE :	2021-11-10)		
END DATE :	2021-11-10			
Data Collector Start		End		
Ш	0	<		

[INVERTER]

ENERGY HISTORY CALENDAR REMOTE O PLANT O DATA COLLECTOR O INVERTER DATA COLLECTOR : 06H20A00732WK INVERTER ID : ALL	← Remote Access Service		
O PLANT O DATA COLLECTOR INVERTER DATA COLLECTOR: 06H20A00732WK INVERTER ID: ALL	SETTING		
DATA COLLECTOR : 06H20A00732WK INVERTER ID : ALL			
INVERTER ID :	~		
	~		
ITEMS : Event	~		
START DATE : 2021-11-10			
END DATE : 2021-11-10			
ID Time Event			
1 2021-11-10 Internal Communication Fault (betw 14:55:19 (F23)	een Display)		
1 2021-11-10 Failsafe (F114)	Failsafe (F114)		

Event	0001-0-0	۲
Disconne	ect	0
Startup		0
← Remote	Access Servic	e
ENERGY HISTO	DRY CALENDAR	REMOTE SETTING
		VERTER
DATA COLLECTO	R : 06H20A0	0732WK ~
INVERTER ID :	ALL	~
ITEMS :	Disconnec	st ~
START DATE :	2021-11-1	0
END DATE :	2021-11-1	0
ID St	art	End

CALENDAR

Connection of Inverter

Connection of DC1

Plant Setting

Connection of Inverter

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

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

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

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

[BLOCK]

[PLANT]

← Remote Access Service		
Y CALENDAR	REMOTE SETTING PLANT SETTING	
PLANT O BLOCK O INVERTER O NOTIFICATION		
PLANT NAME :	test	
COUNTRY :	* Suggestion size : 228 × 171 * File size limit : 200 KB	
CITY :	Tainan City	
TIMEZONE :	(GMT+08:00) Taipei, >	
LATITUDE :	23.120904	
LONGITUDE :	120.275870	
SHARE PLANT WITH SPECIFIC PEOPLE + Add		

[INVERTER]

← Remote Access Service		
Y CALENDAR RE	MOTE SETTING PLANT SETTING	
O PLANT O BLOCK		
INVERTER ID :	1 ~	
INVERTER NAME :	INVERTER NAME	
SERIAL NUMBER :	PVT206006800H	
MAC :	88DA1A5A5650	
INVERTER ID :	1	
Apply	Delete	

← Remote	e Access Servic	е
Y CALENDAR	REMOTE SETTING	PLANT SETTING
O PLANT 💿 BL) NOTIFICATION
BLOCK :	+ Add New E EDIT	V
BLOCK NAME :	BLOCK NAME	
DEVICES :		
ALL :		
□ 1		
App	ly	Delete

[NOTIFICATION]

← Remote Access Service			
CALENDAR	REMOTE	SETTING	PLANT SETTING
O PLANT O BLOO	ck () inv	erter 🤆	
E-mail	Fault	Error	Disconnection
FAEDELTA202			Cancel ~
+			
	Ар	ply	

Connection of DC1

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

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

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

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

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

[PLANT]

← Remote Access Service		
Y CALENDAR REMO	TE SETTING	PLANT SETTING
PLANT O BLOCK O DATA COLLECTOR O INVERTER		
PLANT NAME :	test	
	Selec	t File Upload
	_	-
	- System Francesco	
	rener as	<u>Lealth</u>
	* Suggestion size * File size limit : 20	228 x 171 00 KB
COUNTRY :	Taiwan	
CITY :	Tainan City	
TIMEZONE :	(GMT+08:0	0) Taipei, 🗸
LATITUDE :	23.120928	
LONGITUDE :	120.275862	
SHARE PLANT WITH SPECIFIC PEOPLE		
+ Add FAEDELTA2021@gmail.com (Owner)		

[BLOCK]

	~
+ Add New B	lock
BLOCK NAME	:
2WK :	
	EDIT

[DATA COLLECTOR]

← Remote Access Service			
Y CALENDAR REMO	TE SETTING PLANT SETTING		
O PLANT O BLOCK O DATA COLLECTOR O INVERTER			
DATA COLLECTOR :	06H20A00732WK ~		
COLLECTOR NAME :	COLLECTOR NAME		
SERIAL NUMBER :	06H20A00732WK		
MAC :	0035FF93B562		
Apply Delete			

[INVERTER]

← Remote Access Service			
Y CALENDAR REM	MOTE SETTING PLANT SETTING		
O PLANT O BLOCK O DATA COLLECTOR O INVERTER			
DATA COLLECTOR :	06H20A00732WK ~		
INVERTER ID :	1		
INVERTER NAME :	INVERTER NAME		
SERIAL NUMBER :	PVT206006800H		
INVERTER ID :	1		
Apply	Delete		

[NOTIFICATION]

4.2.3. Restore a DC1

ATTENTION

- Before restoring DC1, please backup the data from old DC1 (refer to chapter 5.4).

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

Click Menu --> Restore a DC1

Select the serial number of the new DC1.

Select the serial number of the old DC1.

≡	← Search Device	← Restore a DC1
 Monitor my plant 	Data Collector	*The SN filled in here must be the same with the backup DC1's SN
Local monitoring	New DC1 serial number -30dBm	Choose SN In Plant
Remote monitoring	DELTA-06H19600511WC -65dBm	DC1 SN Old DC1 serial number
Residie a DCT		Add SN From Entry
Create new plant or device		_
View/Change shared plant list		DC1 SN
> Support	QR Code Type-In	CHOOSE THE FILE
	• System Kealy • Inverte Com. • Insurat Com. ▲ www.	
Please insert the USB with the backup file to a new DC1 and start to restore.	SET	if the serial is not on the list, users can try to type in the S/N manually.

Click "CHOOSE THE FILE"

Confirm the serial number of the old DC1. Check if the file is correct, then click "Start".

Type in the password of the old DC1.

Starting the restore process.

Restoring takes around 150 sec.

Click "OK" to proceed.

DONE.

4.3. Create new plant or device

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

4.4. View/Change shared plant list

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

\leftarrow View/Change shared plant list		
test ~	→ test → Select the plant to	be edited.
Owner Name Email Address	Click here to check the fu	unction accessibility
user FAEDELTA2021@gmail.com	_	Share plant with specific people X
Manager No. Name Email Address Viewer	———→ 🖉 Edit the authority list	▲ Demo E-mail@exa M ✓ X
No. Name Email Address		▲ +
		Send

- kWh

38.8 kW

* The plant owner can add another account also as a plant owner (Maximum number of owners: 2).

Password needed,

P

0

please contact local service.

ß

8

1

 \checkmark

Plant setting (Local)

Edit share list

Change device password

* If a shared account has not registered to MyDeltaSolar Cloud, the Cloud will send an invitation email to them.

4.5. Support

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

(2) Manual

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

③ Contact us

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

← Ma	anual			
Inverter	Battery	Data Collector	Power Monitor	Power Meter
Comm. Unit	Mobile Ap	p		
GINGLE	THAGE			
Anna				
H2.5 / H	3 / H3A	/ H4A / H5	Α	
Operation and	Installation N	lanual :		
🛃 Englis	sh 🛃	繁體中文	🛃 Português	
Quick Installat	ion Guide:			
Finalia	sh			
Englis	511			
H5A_222	2			
Operation and	Installation N	lanual :		
🛃 Englis	sh 🛃	繁體中文		
0.1.1.1.1	014- 1			

- Contact Us	
CONTACT US	
Delta Inc. Customer Se	rvice
NAME :	User Name
E-MAIL :	E-mail@example.com
REGION :	Australia ~
PHONE :	Phone number
TITLE :	Title
MESSAGE :	Message
Submit	Reset

5.Application

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

Select "static" for Protocol, after setting the

Oliale "OV" to ask the setting

5.1. Modbus TCP/IP

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

LOCAL SETTING -> Network

> Network Setting	IP information, click "SET INFO".	Click OK to save the settings.
← Local Point-to-Point Monitoring	Network Setting	Network Setting
RY CALENDAR LOCAL SETTING PLANT SETTING	Interface: Ethernet	Interface: Ethernet
0902	Protocol: static	Protocol: static
Network Setting	IP Address	IP Address
Connect to Internet	Subnet Mask	S Changes saved
	Gateway IP	OK
	DNS 1	DNS1
	DNS 2	DNS 2
	SET INFO	SET INFO

← Network Setting
Network Setting
Interface: Wi-Fi
Protocol: dhep
IP Address
Subnet Mask
Gateway IP
DNS 1
DNS 2
SET INFO

Interface

Ethernet or Wi-Fi

Protocol

dhcp

System will automatically assign an IP address.

static

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

IP Address

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

Subnet Mask

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

Gateway IP

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

DNS1

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

DNS2

Same as DNS1, this is the alternate DNS.

Click "SET INFO" to complete the setup. Read the external communication address via this IP.

5.2. Modbus RTU (Forward mode)

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

LOCAL SETTING -> Maintenance -> Forward mode

Please contact Delta local service for the password.

Click "OK" to save the settings.

Click "YES".

Save complete.

← Forward mode	← Forward mode
Status: ON OFF	Status: ON OFF
Updating settings	Updating settings
C	
Do you want to set forward mode to ON?	Save complete
NO YES	OK
Ŭ	
Do you want to set forward mode to ON? NO YES	Save complete

5.3. IV Curve

LOCAL SETTING -> Maintenance -> Forward mode

Please contact Delta local service for the password.

....

Cancel

Aassword. Function Setting ^ DRM0 Partial/Zero Export Service people only SERVICE CODE

Submit

Check the inverter for IV curve scan.

÷	IV Curve
D ID	SN Status
	O9Y19700007W0 Waiting
	•
	SINGLE
	MULTI
Select I	D Select String

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

b. Click "MULTI", DC1 will scan the IV curve for all inverters at once. *We suggest to use "SINGLE" in order to avoid power drop of your plant.

DC1

LOCAL SETTING -> Maintenance -> Export/Generation Limit Please contact Delta local service for the password.

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

← Local Point-to-Point Monitoring	Function Setting A	← Export/Generation limit
IRY CALENDAR LOCAL SETTING PLANT SETTING	Partial/Zero Export	Info
test12345		
ર્રÕુ Function Setting ≺		Function: VDE4105
DRM0 Export/Generation limit		Mode: Off
Dry Contact		Rates: 0 %
Phase Interlock IV Curve	Cancel Submit	Plant capacity: 0 (kW)
		SAVE
	Fur Mo Rai (All	nction: Operation base on different regulation. ode: To enable or disable the function tes & Plant capacity: Setting of the export power lowable export power = Plant capacity x Rates)

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

LOCAL SETTING -> Maintenance -> Export/Generation Limit

Please contact Delta local service for the	
password.	

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

← Local Point-to-Point Monitoring	Function Setting	← Export/Generation limit
INFO HISTORY LOCAL SETTING PLANT SETTING	Partial/Zero Export	INFORMATION
۲ ۲ ۲ ۲ ۲ ۲	Service people only SERVICE CODE	Meter total power :0.0 kW
DRM0		Inverter total power :0.0 kW
		Internal Meter : 🧿 ON 🔿 OFF
	Cancel Submit	Function AS4777.2:2020
		Export limit: On(Soft)
		Export limit power: 4990 (W)
Internal Meter: Should be set ON to apply power limit control function Function: Set in default based on the country setting		Generation limit: ON
Export limit power: Allowable export power		Generation limit power: 0 (W)
Generation limit: To enable and disable the function Generation limit power: Allowable generation power		

6. Maintenance

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

6.1. Firmware update

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

6.1.1. DC1 Firmware Update

[DC1 Firmware Update - Delta Server update method]

LOCAL SETTING -> Maintenance -> DC1 Firmware Update

Select Download Access.

Click "Delta server".

Click "OK".

Downloading...

0

DC1 Info	
DC1 FW: 01.30	
SN: 06H20A00737WK	
DC1 FW Update	
Download Access: Delta Server	
DOWNLOAD DC1 FW FILE	\cap
Download Status : Downloading	
DC1 FIRMWARE UPDATE	

Click "DOWNLOAD DC1 FW FILE".

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

Click "OK".

Select the serial number of DC1.

Sending file to DC1...

← DC1 Firmware Update	
DC1 Info	
DC1 FW: 01.30	
SN: 06H20A00737WK	
DC1 FW Update	
Download Access: Delta Server	
DOWNLOAD DC1 FW FILE	
Download Status : Finished: V02.01	
DC1 FIRMWARE UPDATE	
Update Status : Sending file to DC1	

DC1 is updating...

← DC1 Firmware Update
DC1 Info
DC1 FW: 01.30
SN: 06H20A00737WK
DC1 FW Update
Download Access: Delta Server
DOWNLOAD DC1 FW FILE
Download Status : Finished: V02.01
DC1 FIRMWARE UPDATE
Update Data Collector is updatingThe LED Status : indicator will turn red.Please wait 2~4 minutes.

Successfully updated DC1.

← DC1 Firmware Update
DC1 Info
DC1 FW: 02.01
SN: 06H20A00737WK
DC1 FW Update
Download Access: Delta Server
DOWNLOAD DC1 FW FILE
Download Status : Finished: V02.01
DC1 FIRMWARE UPDATE
Update Successfully updated Data Status : Collector.

[DC1 Firmware Update - USB update method]

LOCAL SETTING -> Maintenance -> DC1 Firmware Update

Select Download Access.

DC1 is updating...

Click "DOWNLOAD DC1 FW FILE".

← DC1 Firmware Update
DC1 Info
DC1 FW: 01.30
SN: 06H20A00737WK
DC1 FW Update
Download Access: USB
DOWNLOAD DC1 FW FILE
Download Status :

After the FW download, please click "DC1 FIRMWARE UPDATE"

to start the updating process.

 \leftarrow

DC1 Info

\leftarrow DC1 Firmware Update DC1 Firmware Update **DC1 Info** DC1 FW: 01.30 DC1 FW: 01.30 SN: 06H20A00737WK SN: 06H20A00737WK **DC1 FW Update DC1 FW Update** Download Access: USB Download Access: USB DOWNLOAD DC1 FW FILE DOWNLOAD DC1 FW FILE Download Status : Finished: 02.01 Download Status : Finished: 02.01 DC1 FIRMWARE UPDATE Update Status : ---Update Data Collector is updating...The LED Status : indicator will turn red.Please wait 2~4 minutes.

Successfully updated DC1.

← DC1 Firmware Update
DC1 Info
DC1 FW: 02.01
SN: 06H20A00737WK
DC1 FW Update
Download Access: USB
DOWNLOAD DC1 FW FILE
Download Status : Finished: 02.01
DC1 FIRMWARE UPDATE
Update Successfully updated Data Status : Collector.

6.1.2. Inverter FW Update

[Inverter FW Update - connection of DC1]

LOCAL SETTING -> Maintenance -> Inverter Firmware Update

Select a method to get Internet ability.

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

RED: 00.00	DSP :
CS: 00.00	RED :
Inverter FW Update	CS:
GET CURRENT FIRMWARE VERSIONS	I
Firmware Type :	
Firmware Version :	Firm
Download Status :	Firm
UPDATE SINGLE INVERTER	Down

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

Click "YES".

Downloading...

Click "OK".

Updating...

Success.

Inverter FW Update		
GET CURRENT FIRMWARE VERSIONS		
Firmware Type :		
Firmware Version : 02.01		
Download Status : Finished		
UPDATE SINGLE INVERTER		
SAME MODEL UPDATE		
Update Status		
Success		

[Inverter FW Update - connection of inverter]

LOCAL SETTING -> Maintenance -> Firmware Update

Enter Firmware update page.

← Firmware Update	Inverter N
DELTA	Firmware
Inverter Model:	Click or automa for Rou
	Status:

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

Click "Inverter Model".

← Firmware Up	odate
	ELTA
Inverter Model: Firmware Type:	

Select a Inverter model for FW update.

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

Firmware Update

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

H2.5~H5A Flex	
H3A_222	l
H5A_222	l
H4J-22	l
H5.5J22	l
H6J_24	l
H6J	l
H5E_220	

Click "Load Hex File".

After downloading complete, click "Scan inverter".

Select the Inverter serial number for FW update.

		01-1-1-1
Serial Number	aBm	Status
Delta-05Q18500961W0	-33	
Delta-O9Y19800016W0	-40	
Ca-O9Y19700007W0	-53	
Delta-PVT206006800H	-70	
Update	Inverte	r
Firmware Version :		
02	.07	
Information:		
Product ID : 52000200		

Select a method to get Internet ability.

*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.

Router/Others

4G/3G(mobile data)

U Wi-Fi Router

Please select target device's SSID

0

Click "Update Inverter".

← Firmware Update	← Firmware Update	Scan inverter If your device is not on the list. Please click on scan and move closer to your device.
Serial Number dBm Status Delta-05Q18500961W0 -33 Delta-09Y19800016W0 -40 Checking connection of inverter Delta-09Y19700007W0 -53 Delta-PVT206006800H -70	Serial Number dBm Status Delta-05Q18500961W0 -33 -33 Delta-09Y19800016W0 -40 Upgrading Delta-09Y19700007W0 -53 -53 Delta-PVT206006800H -70 -70	Serial Number dBm Status Delta-05Q18500961W0 -33 Delta-09Y19800016W0 -40 Success Delta-09Y19700007W0 -53 Delta-PVT206006800H -70
ر	Transmission: 8% 136	Update inverter
Firmware Version :	Firmware Version :	Firmware Version :
02.07 Information: Product ID : 52000200 Processor : 0 Start address : 08020000 Stop address : 080FFFFF CheckSum : 0x064F OK	02.07 Information: TCPGetPIDCmd done ReqBoot1Tcp done ReqBoot2Tcp done ProcessorSelectTCP done BankSelectTCP done InternalProcTCP done	02.07 Information: BurnProcessTCP done BankCloseProcTCP done BurnDoneProcTCP done InternalProcTCP_final done Total Tx Len :227968

Click "OK".

Upgrading...

6.2. Replace inverter

* Please contact local service for the password

Select the connection method of DC1 and

inverter then click "SEARCH".

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

LOCAL SETTING -> Maintenance -> Replace Device

Please contact Delta local service for the password.

Replacement successful.

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

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

← Local Po	oint-to-Point	Monitoring	J
ENERGY INFO	HISTORY	CALENDAR	LOCALS
	test123		
🔲 BLOCK 🔽 INVE	ERTER		
DATA COLLECTOR:	06H20A00737V	VK	
INVERTER ID:	1		
Info			
ID	1	_	
Serial Number	09Y19700007\	W0	
Model	H5A_222		
Status	Check DC		
Country	AU_WP		
Energy			
Today Energy	0.0 Wh		
Total Life Energy	14860.0 Wh		
Input			
Voltage	1.10 / 1.20 V		
Current	3.20 / 2.32 A		
Power	3.00 / 2.00 W		
Output			
Voltage	119.20 V		
Current	0.71 A		
Power	0.00 W		

6.3. Add inverter

*This function is only for SUB_1G communication.

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

LOCAL SETTING -> Connection

Click "Add Device".

Mode: More Mode Communication Band: 62	Region: CE Mode: More Mode	Connected Inverters are below: Index Serial Number ID SNR RSSI
Cc	Communication Band: 62	✓ 1 0000009300 93 8 -29
Which Function you want to do?	Connected Inverters are below: Index Serial Number ID SNR RSSI	
Add Device	✓ 1 0000009300 <u>93</u> 8 -29	INVERTER SEARCHING
Change Device		Scanning Sub1G inverter
Reset Device	INVERTER SEARCHING	Index Serial Number ID SNR RSSI
CANCEL	SEARCH INVERTER	1 000000000000 <u>2</u> -10 -116
	HANDSHAKING PROCESS	2 0000001800 92 6 -32
	START HANDSHAKING	

Click "SEARCH INVERTER".

Click "OK".

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

Click "OK".

Scanning SUB-1G inverter...

Click "SUB-1G MONITOR ON".

Click "OK".

Connected inverters are below. ID SNR RSSI 1 0000009300 93 8 -29 IN Connection complete. IN 1 0000000000000 2 -10 -116 2 0000001800 1 6 -32 HANDSHAKING PROCESS HAN

APP will direct to grid setting page.

	nnecte	ed inverters are i	below:		
	Index	Serial Number	ID	SNR	RSSI
\leq	1	0000009300		8	-29
IN					
	Dir	ecting to Grid-S	Setting	Page	
					ОК
	_	_	_		OK
	1	000000000000000000000000000000000000000	2	-1	OK
	1	000000000000000000000000000000000000000	2	-1	OK 0 -116
	1 2	000000000000000000000000000000000000000	21	-1 €	ок 0 -116 -32
	1 2	00000000000000000000000000000000000000	2 1	-1	OK 0 -116 -32
	1 2 .NDSH	00000000000000000000000000000000000000	2 1	-1 6	ок 0 -116 -32

Confirm and modify the setting value.

Adding inverter process complete.

← Grid Setting		•	<u>,</u>	Inverter		
	RELOAD		RS4	85 🔲 Wi-Fi	🖌 Sub	-1G 🗌 RetroFit
Select Inverter ID: Selected inverter model: Installation Settings Country	1 RPI-M88H	Re Ma Co	egion: ode: 1 ommu onnect Inde:	CE More Mode nication Band: ted Inverters ar x Serial Number	62 e below: ID	SNR RSSI
SINGLE SET SAME MODEL SET			1	0000001800 0000009300	1 93	8 -30
Insulation Mode	<u>ΟΝ</u> 600 kΩ					
RCMU	ON					
EPO 1 (External power off)	Normal Open					
AC connection Relay 1 (dry contacts)	Disable					
Relay 2 (dry contacts)	Disable					
\equiv (_		\triangleleft

6.4. Back up DC1

ATTENTION

- A USB stick is needed for backup function.

- User can refer to Chapter 4.2.3 for resoring DC1.

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

-> Backup a DC1

Please contact Delta local service for the password.

Ø			
' 图'	Grid Setting \checkmark		
	() Service	people only	
()	SERVIC	E CODE	
	Cancel	Submit]
	Replace Device		
203	Function Setting	~	

Connect the USB with DC1.

Support

Click "BACKUP"

Backup success.

6.5. Reset DC1

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

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

-> Reset Function

Please contact Delta local service for the password.

~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Connection V		
'汉	Grid Setting ∨		
	Matural		
	(!) Service	people only	
$(\mathbf{c})$	SERVIC	E CODE	
	Cancel	Submit	
	Replace Device		
203	Function Setting	~	

#### Click "RESET".

#### **Reset Function Reset Function Reset Function** Mode: More Mode Mode: More Mode Mode: More Mode Data Collector Communication Band: 62 Data Collector Communication Band: 62 Data Collector Communication Band: 62 **RESET DATA COLLECTOR RESET DATA COLLECTOR RESET DATA COLLECTOR** RESET Would you really want to reset Start the process of resetting Data Collector. Please wait for a few Data Collector? minutes. NO YES OK ( 10 Change SUB-1G bandwidth Change SUB-1G bandwidth Index Serial Number ID Index Serial Number Index Serial Number ID 1 1 0000001800 1 93 93 93 0000009300 0000009300 0000009300 2

![](_page_56_Figure_10.jpeg)

![](_page_56_Picture_11.jpeg)

Click "YES".

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

Click "OK".

# 6.6. Change SUB-1G bandwidth

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

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

![](_page_57_Figure_3.jpeg)

![](_page_57_Figure_4.jpeg)

![](_page_57_Figure_5.jpeg)

# Connection ✓

Please contact Delta local service for the

<b>'</b>	Grid Setting $ {\color{red}  {\color{black}  {$		
	() Service SERVIC	<b>people only</b> E CODE	
I			
	Cancel	Submit	
203	Function Setting	~	

#### Click "Change"

Ch	ange S	SUB-1G bandw	idth
-	Index	Serial Number	ID
~	1	0000001800	1
~	2	0000009300	93
		CI	hange m

## Click "OK".

![](_page_57_Picture_11.jpeg)

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

![](_page_57_Figure_13.jpeg)

#### Select mode and "Scan band".

RS485	🗌 Wi-Fi 🔽	Sub-1G	RetroFit
Region: CE			
BAND SELEC	CTION		
Mode: Sta	ndard	-	
* Please sele	ct communicat	ion Band and s	can Quality
Scan band:	Group1	SCAN	m
ВQ	B Q	в Q	
1 :	2 :	3 :	
4 :	5 :	6 :	
5	SET DATA COLL	ECTOR BAND	

#### Set band Successfully.

![](_page_57_Picture_17.jpeg)

#### Scanning Quality

![](_page_57_Figure_19.jpeg)

Click "RECONNECT".

![](_page_58_Picture_1.jpeg)

Change finished.

Click "OK".

# 7. Error Message and Troubleshooting

# 7.1. Error Event History

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

← Local Point-to-Point Monitoring					
ENERG	Y INFO	HISTORY	LOCAL SETTING		
	HXE	-555_BXAC-	12		
ITEM:         Event Log           START DATE:         2021/6/9					
END D	ATE:	2021/8/	9		
	Event Log				
ID	Ti	me	Event		
2	2021/7/19	11:17:52	E09 - No Grid		
2	2021/7/20	01:21:02	E09 - No Grid		
2	2021/7/21	06:34:46	E09 - No Grid		
2	2021/7/22	01:28:12	F112 - Battery Commu Fail		
		$\bigcirc$	$\triangleleft$		

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

# 7.2. Communication Troubleshooting

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

## [Flex Inverter with MyDeltaSolar Cloud]

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

# [Flex Inverter with DC1]

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

# [DC1 with MyDeltaSolar Cloud]

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

# 7.3. App Error Dialog Display

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

Error indication	Contents	Workaround
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.
Click on 'OK'. The APP will automatically direct you to the page for Data Collector connection. OK	DC1 has not been connected.	Please confirm the connection between DC1 and the mobile device, and make sure there is only one mobile device connected to the DC1.

![](_page_63_Picture_0.jpeg)