Quick Commissioning guide for Sungrow CX series inverters via EyeM4 dongle

Disclaimer

The material in this document has been prepared by Sungrow Australia Group Pty. Ltd. ABN 76 168 258 679 and is intended as a guideline to assist solar installers for troubleshooting. It is not a statement or advice on any of the Electrical or Solar Industry standards or guidelines. Please observe all OH&S regulations when working on Sungrow equipment.

The following document is intended as a guide to commissioning the Sungrow CX series inverters. It is assumed that all the hardware and wiring is in place.

Step1 – Initialising the inverter

This is done by using a smart phone or tablet.

Open the iSolarCloud App and tap the 'Local Access' icon on the bottom left

Tap 'Manual Connection'

Select 'Others



The App will scan for nearby inverters

When you see the serial number, tap it

Log in as "admin" and password is pw8888

Tap 'Country/Region'

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Select Australia (or New Zealand)

For power company, select the appropriate for your location

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	Denmark(DK1)				CitiPower & Powercor	

Tap "Turn On Device" icon top right corner. The inverter will go through it's initialisation and start-up. Tis could take a couple of minutes. The App will confirm configuration and the inverter will switch on

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Step 2 – Create a plant on iSolarCloud

After you have logged out of the Bluetooth connection, log in to your iSolarCloud account as normal

Tap the orange + icon top right corner

Populate all of the fields with correct information

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Ensure to select the correct plant type and consumption type, as this affects the iSolarCloud display

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Ensure correct region and time zone

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Samoa	
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Click "Next" then scan the dongle QR code and confirm

Clean power for all



The plant will be created, and you now commission the dongle (for Logger1000 instructions, please refer to the Logger1000 documentation)

Step 3 – Commission the EyeM4 Dongle

It is best to use a laptop to commission the dongle

Go to your settings and scan for WiFi networks. Connect to the SG-********* network (the serial number is the password)

Settings	Network & internet > Wi-Fi		- 0
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Open any browser and type 11.11.11.1 into the address bar. This will take you to the login screen. The password is pw1111

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To set the WiFi connection, select "network options, switch on the WiFi, and scan for networks



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	Close Next		

Select the customer's WiFi network and enter the password



Scroll down and check the 'Remote Maintenance' box

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Click 'NEXT'



The dongle will automatically scan for connected inverters (RS485). Confirm



Ensure all inverters are connected and click on the "Initial Parameters" box

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Click "Settings" in the pop-up box and check the result

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If there is a meter connected, click the "Add Device" box

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Select as appropriate for the meter from the drop-down boxes, and check that it has connected (RS485). Then click 'Next'

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The overview can be downloaded. Then click "Complete"

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There are a couple of more steps.

Set the server to "Australia" by selecting *System/Transfer Configuration*, and then the settings gearwheel

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From the drop-down box, select "Australian Server and confirm

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Clean power for all

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Confirm and then copy password info

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Step 4 setting the CT ratio and export control

Go to "Device Monitoring", then select the meter, and open the 'Initial parameter' tab and enter the correct CT ration i.e. 100/5 = 20

Save

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U History Data 🗸 👻		CT Transformation Ratio	0
System 🔻		Meter Reverse Connection Enable	1
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To set the export control. Select "**Power Control/Active Power**" and select "Local Power Control" from the drop-down box

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Select "Closed-Loop Control and the meter type

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• Overview -	Active Control Mode
Device Monitoring	Local Power Control V
X Device 👻	Power Limit in Case of Meter Communication Anomaly (%) 100.0
1 Power Control	Control Method
Active Power	Closed-loop Control V
C History Data -	Select energy meter/transformer DTSD1352(COM1-254) ~
 System 	Wiving mode
About	Direct connection ~
	Start after communication recovery
	Enable ~
	Start delay after communication recovery (0-120)s
	60

Scroll down and select "kW" from the 'Instruction Type' and enter the export value.

EyeM4	≖	🔕 1 🛕 0 🛛 🌐 English 🔹 💄 O&M user
🔛 Overview 🗸	Total active power control \sim	
Device Monitoring	Control Cycle (5-60)S 10	
★ Device	Instruction Type	
Power Control	ĸw	
Active Power		Clear Data
Ilistory Data	Start Time	Fixed Value of Active Power(kW)
♦ System 👻	00:00	30
 About 		
O		

Scroll down and SAVE

EyeM4	프 😵 1 🛕 0 🕮 English 💄 O&M user
🖬 Overview 🗸	30
Device Monitoring	
X Device ▼	
Power Control	
Active Power	
Itistory Data	
• -)	
About	
	Save

The basic commissioning is now complete. Log into your iSolarCloud account and check to see if the plant is online

iSolarCloud	Plant Status	~ Plant	Type \vee	demo sg30cx) Devi	ce S/N	Q R Screenin	ng Column 🕀 Cro	eate Plant SUN	
M										
Home	Plant Image	Plant Status	Plant Name	Plant Type	Installed	Real-time	Today Yield	Total Yield	Equivalent	Operation
Fault	Hant mage	Thurt Status	- Turre Hume	Thank type	Power ≑	Power 👙	÷	÷	Hours ≑	operation
Report		0	demo sg30cx	Commercial	30 kWp	0 W	0 kWh	0 kWh	0 Hour	Ū
Curve	W	•	training	PV	50 KWP	0 10	0 KWII	0 KWII	onour	
Advanced \checkmark										
Settings										
Firmware Update										
Smart IV Curve Diagnosis										
ount Me										
Me										
Background Management										
Logout							Total 1	10/page	< 1	> Go to 1

Open the plant, and select "Device Information" and check that you can see all inverters/meters

Clean power for all



Apps	SG - Sungrow Servi	(7) Sungrow Power 🎦 Sungrow Australia 🔀 Or	verview 🎮 Gmail 💶 YouTube 💡 Maps 🤇	Google 🔇 Easy Connect 📙 Sungrow sheets	» 📰 Readin
ک	< Back	Device S/N Device	Name Device Type	✓ Device Status ✓ Q	+ Add Devic
5					
2		● SG30CX(COM1-001) 2 ① Inverter	● EyeM4_001_247 <i>2</i> Communication Module	● DTSD1352(COM1-254 2 ① Meter	
€ \	demo sg30cx training	Daily Yield	Wireless Signal Strength	Forward Active Energy	
<u> </u>		0 kWh		212.66 kWh	
7	0verview	Total Active Power 0 W	WLAN Signal Strength	Reverse Active Energy 293.08 kWh	
9	Device Information	Communication Device S/N B2006050572			
3	🛆 Fault				
	 Plant Configuration 				
9					
	Advanced				

If the issue persists after following above procedures, please take photos testing on site and contact Sungrow Service Department on 1800 786 476 or email to service@sungrowpower.com.au, Monday- Friday 9am - 5pm (AEDT).

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