Remote Setting via iSolarCloud

Disclaimer

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Applicability: Sungrow Crystal G2 Series, Three Phase Residential and CX range, Single-Phase Hybrid Range (SH5K-20/30 only), Three-Phase Hybrid Range

Communication Device Requirements:

Inverter Type	Communication Device
Single-Phase / Three-Phase Residential Range (Grid-Connect & Hybrid)	V25/V31 Wi-Fi Dongle / E-Net Dongle / Direct Ethernet (Hybrid)
Three-Phase Commercial Range	EyeM4, Logger1000

Table 1: Communication Device Requirements

The new iSolarCloud now allows installers to view and update settings remotely at a click of a button. This feature allows users to save time by avoiding the need to go to site to change just a few settings.

Hence, this document will cover the steps required to successfully view and update the settings on the inverter using the online web portal.

Introduction:

The **Settings** feature option can be found in the main menu under "**Advanced**". Selecting it will allow the user to search for the plant which needs to be checked or updated.

A.	 Q
⊘ iSolarCloud™	
O&M	
Home	
A Fault	
() Report	
\textcircled{P} Advanced \checkmark	
Settings	
Firmware Update	
Smart IV Curve Diagnosis	
Failure Plan	
Remote Maintenance	

Figure 1 Settings & Plant Search

On selecting the plant, the relevant device and type can be selected on the right. Please use the following guide with respect to Figure 2 to locate the inverters:

- Grid-Connected Inverters Inverter
- Hybrid Inverters Energy Storage System

Inverter ^ De	vice Model	 Country; 	/Regi 🗸	Grid Frequency 😔	Device S/I	N C
Inverter					Initial Grid	d Connection
Energy Storage System Data Logger	evice lame	Initial Grid	Device S/N	Device Model	Country/Re gion	Grid Frequency

Figure 2 Device Type

Once the type has been selected, the relevant device must be selected in order to proceed further.

The Settings feature on iSolarCloud has three main parameter menus (Figure 3):

• Initial Grid Connection

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- Common Parameter Setting
- Advanced Parameter Setting

Device S/N	Q			
Initial Grid	Connection	Common Parameter Settings	~	Task List
Country/Re gion	Grid Frequency	Advanced Settings	ra	tion

Figure 3 Parameter Menus

Initial grid connection allows the inverter to be initialised by setting the country setting whereas each of the **parameter settings** can be used to successfully view and change general settings on the inverter. The information available under these settings can vary depending on the model of the inverter.

Viewing the Settings:

Before any settings can be changed, it is important to know the existing set values. This can be done using the "**Inverter Parameter Query**" option under **Operation** (Figure 4).

The first two options under operation correspond to common and advanced parameter query respectively and the clock symbol can be used to check the task history and status for that specific device.

Se	ttings											
	Inverter	~ I	Device Model	Country/I	Regi 🗸 🛛 G	rid Frequency	Device S/I	N C	λ			
							Initial Gri	d Connection	Common Par	ameter Settings	✓ Task List	
		Plant Name	Device Name	Initial Grid	Device S/N	Device Model	Country/Re gion	Grid Frequency	Version No.	Device Interval	Operation	
			SG8K- D_001_001	Already Set	A200	SG8K-D	Australia – Energex	50 Hz	CR0-1.0.5.0- AR0-1.0.15.0		a a O	

Figure 4 Parameter Query under Operation

Inverter parameter query can also be performed under the **Parameter Settings** menu. On opening either the common or advances parameter settings, the option will be on the top right (Figure 5).

Advanced S	Advanced Settings							
Protection Pa	Protection Parameters Power Control Q Inverter Parameter Query							
No.	Parameter Name	Latest Value Update Time:2020-10-15 16:48:18	Numerical Term	Coefficient	Unit	Remarks		
1	10-min Overvoltage Protection	ON	Please Select	·				

Figure 5 Parameter Query under Settings Menu

On selecting any of the parameter query options, a prompt will pop up where a task name and a valid period can then be set. The valid period is the time after which the query will timeout if it is not complete.

Parameter Query		×
Task Name:	2020-08-11 11:35 Inverter Remote Parameter Qu	
Instruction Valid Period:	0.5 h	~
	ter baranneters are adented, the baranneter setting is not	
affected. Click "Canc	el" to exit the inverter parameter query function.	
affected. Click "Canc	to exit the inverter parameter query function.	
affected. Click "Canc	to exit the inverter parameter query function.	

Figure 6 Task Name & Valid Period

Clicking confirm will begin the query which can take up to a few minutes, depending on the number of parameters requested from the inverter.

On completion, the "**Latest Value**" under the parameter menu will update and display the latest parameters read from the inverter. For viewing parameters which have multiple settings to them, a sub-menu will appear on selecting the relevant setting (Figure 7).

Advanced Settings								
Protection Pa	rameters Power Control				[Q Inverter Parameter Query		
No.	Parameter Name	Latest Value Update Time:2020-10-15 16:48:18	Numerical Term	Coefficient	Unit	Remarks		
1	10-min Overvoltage Protection	ON	ON V	-				
1-1	Protection Value	257		0.1	V	230~264.5		

GD_202010_iSolarCloud_Remote Settings_V1.0

Figure 7 Latest Value and Sub-Menu

Changing the Settings:

Once the settings have been viewed, they can then be amended as required. This can be done using the two parameter menus namely **Common** and **Advanced Parameter Settings**.

Similar to viewing settings, the sub-parameters for a setting can be viewed changed by selecting the relevant setting. Simply input the value or setting you would like to adjust the parameter to and click "**Apply Settings**" down at the bottom.

Advanced S	Settings					×
Protection Par	rameters Power Control					Q Inverter Parameter Query
No.	Parameter Name	Latest Value Update Time:2020-10-15 16:48:18	Numerical Term	Coefficient	Unit	Remarks
1	Active Power Limit Ratio	100		0.1	96	0~100 0~110
2	Zero-export		Partial ~			
2-1	Total feed-in power	0	5000	1	w	Transform system power ~ Transform system power + Inverter rated power
3	Existing Inverter	Off	Please Select \sim			
			Apply Sattings			

Figure 8 Changing Settings

Please note, only settings that have been entered will be changed.

To proceed further with the settings, a password must be entered. This password is the same as **the login password for the account**.

Please enter login password.	×
Confirm	

Figure 9 Login Password



A task name and a valid period can then be selected. Clicking "**Confirm**" will initiate the settings.

Instruction Valid Period: 0.5 h	

Figure 10 Task Name & Valid Period

The status can then be checked using the "**Clock Option**" under operation. This will allow the user to view the set and read back values.

View Task History							
SG8K-D_001_001 Plant Name: Device Interval: Device Interval: Inverter Model: SG8K-D 2020-07-07 ~ 2020-07-07 Q							
No.	Execute the Instruction	Operator	Instruction Issued Time	Set Value	Read-back Value	Execution Result	
1	Total feed-in power	-	2020-07-07 16:16:53	5,000	5,000	Successful	
2	Zero-export	-	2020-07-07 16:16:53	Partial	Partial	Successful	
3	Protection Value	-	2020-07-07 16:09:32		257	Successful	
4	10-min Overvoltage Protection	-	2020-07-07 16:09:32		ON	Successful	

Figure 11 View Task History

If you have any questions for remote setting features, please contact Sungrow Service Department at <u>https://www.sungrowpowerservice.com/Page/Contact/contact-us-global</u>