Commissioning Document S6 Inverter

Solis Australasia

Contents

1	Pre-Commissioning	2
2	Commissioning	3
	2.1 Connecting with Bluetooth	3
	2.1.1 As a New User	3
	2.1.2 As an Existing User	3
	2.2 Select Device	4
	2.3 Account Login	5
	2.4 Initial Setup	5
	2.4.1 Grid Parameter Setting	5
	2.4.2 EPM Setting	7
3	Setup Complete	10

1 Pre-Commissioning

- 1. Make sure that no high voltage conductors are energized.
- 2. Check all conduit and cable connection points ensure they are tight.
- 3. Verify that all system components have adequate space for ventilation as prescribed in the installation manual.
- 4. Follow each cable to ensure that they are all terminated in the proper places.
- 5. Ensure that all warning signs and labels are affixed on the system equipment.
- 6. Verify that the inverter is secured to the wall and is not loose or wobbly.
- 7. Prepare a multimeter that can do both AC and DC amps.
- 8. Have an Android or Apple mobile phone with Bluetooth capability.
- 9. Install the Soliscloud APP on the mobile phone and register a new account.
- 10. There are three ways to download and install the latest APP:
 - You can visit www.soliscloud.com.
 - You can search for "SolisCloud" on the Google Play or the APP Store.
 - You can scan the QR code in Figure 1 to download SolisCloud.



Figure 1: Scan this with your Phone Camera to download SolisCloud

2 Commissioning

This manual will help you to commission S6 inverter on site using Bluetooth. Please follow the steps below:

2.1 Connecting with Bluetooth

Ensure that your mobile phone's Bluetooth is enabled and turned on on. Then open the Solis cloud APP. If you are an existing SolisCloud user progress to Section 2.1.2, otherwise, if you are a new user progress to Section 2.1.1.

2.1.1 As a New User

As shown in Figure 2: Click More Tools \rightarrow Local Operation \rightarrow Connect with Bluetooth.



Figure 2: Steps to connect via Bluetooth

2.1.2 As an Existing User

As shown in Figure 3: Click Service \rightarrow Local Operation \rightarrow Connect with Bluetooth.

Service						
Common to	ol					
Local Operation	WiFi Configurat	Warehouse Tool	Warranty Inquiry			
Help	- 2					
FAQ	Info.					
Other						
Discover						
(1)						
Plant	Events Over	View Servic	A Me			

Figure 3: Select 'Service' and then select 'Local Operation'

2.2 Select Device

You should now be able to view, access and connect to nearby Bluetooth enabled items. Please select your inverter from the available options.

You can identify your inverter by it's serial number (SN) - which can be found on the Inverter's nameplate. As illustrated in Figure 4, your device will appear on your phone as: **INV_SN**. Here, 'SN', is substituted for your devices Unique Serial Number.

< Nearb	y Device •••			
If the device is not in the list, Device" button at the bottom	please click the "Search			
	冬 回) >			
INV_XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	x &) >			
INV_XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	× (10%)			
Other Device				
E Device 1	冬· 1) >			
Device 2	\$-1)) >			
Device 3	8·1) >			
Device 4	冬· 1)〉 >			
E Device 5	8·1) >			
Scan Connection Search Device				

Figure 4: Select your Inverter Device, identified by its' Serial Number which should replace 'XXXXXXXXXXXXX'.

2.3 Account Login

If you are the installer please select the account type as '*Installer*'. If you are the plant owner please select the account type as '*Owner*'. (The first log-in must be finished by the installer in order to do the initial setup)

Then set your own initial password for control verification. For future debugging purposes, it is **highly recommended** to set the initial password to: *Solis1*

Control Verification ·•· ⊗	Control Verification ··· 🛞	< Control Verification ··· ⊗
1031140235300004	1031140235300004	3801150245130063
Select account type	Select account type V	Installer v
Input control password	Input control password	Solist >rr4
Verify	Verify	Solis1 >m^6
		Set Password
		∧ ∨ Done
	Installer	
	Owner	
	Cancel	
(a) Click 'Account Type'.	(b) Click 'Installer'.	(c) Enter Password.

Figure 5: Account Setup Steps

2.4 Initial Setup

If this is the first time the inverter has been commissioned you will need to set up the device's Grid Code and EPM settings. The subsections below outline the step-by-step process to be followed.

To note, these settings can then also be changed later.

2.4.1 Grid Parameter Setting

As illustrated in Figures 6a and 6b: Click Grid Parameter Setting \rightarrow Grid Code Setting.

INV_3801150245130063 ••• 0	S Crid Parameter Setting … S
SN: 3801150245130063	Grid Code Setting
(I) Power ON (I) Power OFF	
Inverter Setting	>
Grid Parameter Setting	
EPM Setting	>
Inverter Work Mode Setting	>
Frequency Derating Setting	>
VRT Setting	>
合 E	
(a) Click 'Grid Parameter Setting	y'. (b) Click 'Grid Code Setting'.

Figure 6: Grid Parameter and Code Settings

You should now be displayed a screen similar to that shown in Figure 7. Please select your Country/Region from the available list.

<	Select Country/Region	•••	\otimes
General			ener
User-defin	θ		B
Other			C
А			E
Aruba			F
Australia			н
Austria			J
в			L
Barbados			M
Belgium			O
Brazil			Q
с			R
Chile			т
China			v
Cyprus			×
Czech			Y Z

Figure 7: Select your relevant Country/Region. IE, if in Australia, select 'Australia'.

If you selected Australia, you should now be displayed a screen similar to that shown in Figure 8. Please select the grid code as required by your state/territory.

Once complete, click Save.

<	Select Grid Code	••• ⊗	
AS4777-02			
AS4777-15			
AUS-Q-0.9			
AUS-Q-0.8			
AS4777_SA			
AS4777_NA			
AS4777-WA			
AS4777-NW			
NewZeal			
ASNZ4777-A			
ASNZ4777-B			
ASNZ4777-C			
ASNZ4777-N			
	Save		

Figure 8: After selecting your relevant Grid Code, then click 'Save'.

NOTE: If in New Zealand, select your region as Australia and then select your grid code as ASNZ4777-N.

2.4.2 EPM Setting

Perform changes to your EPM settings only if a smart meter has been installed on-site. If there is no meter on-site, proceed to Section 3.

As illustrated in Figures 9a and 9b: Click EPM Setting \rightarrow Built-in EPM Setting.

< INV_3801150245130063 ···· ⊗	< EPM Setting ··· ⊗
SN: 3801150245130063 Normal	Built-in EPM Setting
	External EPM Setting
(in) Power ON (off) Power OFF	CT Setting >
Inverter Setting >	
Grid Parameter Setting	
EPM Setting	
Inverter Work Mode Setting	
Frequency Derating Setting	
VRT Setting	
(a) Click 'EPM Setting'.	(b) Click 'Built-in EPM Setting'.

Figure 9: Navigation to Built in EPM Settings

As illustrated in Figures 10a and 10b: Click Built-in EPM Mode Select. Now select Meter in Grid. Once complete, click Save.

< Built-in EPM Setting	, ⊗	<	Built-in El	PM Setting	••• ⊗
Built-in EPM Mode Select	OFF >	Built	-in EPM Mode Select	Meter in Gr	id Mode >
Built-in EPM Hard Limit Mode Select	OFF >	Built-	-in EPM Hard Limit M	lode Select	OFF >
System Export Power Limit Value	 OW >	Syste	em Export Power Limi	t Value	ow >
System Export Power Hard Limit Value	< WO	Syste	em Export Power Hard	d Limit Value	ow >
FailSafe Switch		Fail	Built-in EPM	Mode Select	
MET-CT FailSafe		ME	CT Sensor Mod	le	
Meter select	DDSD1352C >	Met	• Meter in Grid N	lode	c >
G100V2 Control Switch	OFF >	G10	Meter in Load M	Vode	F >
G100V2 Backflow Current	16.00A >	G10	Meter 24-Hour	Monitoring Mod	e Ai
G100V2 Alarm Clear	>	G10	CT Load Monite	oring Mode	>
G100V2 Alarm Clear Type	Domestic >	G10		-	ic >
RD244_ EPM_ ON/OFF Set		RD	Cancel	Save	
(a) Click 'Built-in EPM I lect'.	Mode Se-	(b) Select 'Mete	er in Grid N	/lode'

Figure 10: Setup to Meter in Grid Mode

As illustrated in Figures 11a and 11b: Click System Export Power Limit Export. Now, enter your site's export power limit value. Although often 5000 W, this should be confirmed with your utility company and the installer.

Once complete, click **Save**.



(a) Click 'System Export Power Limit Value'.

(b) Enter your site's export power limit value (in Watts).

Figure 11: Setting your site's system export power limit.

As illustrated in Figures 12a and 12b: Click **Meter Select**. Now, select the meter relevant to your site's installation setup.



Figure 12: Selecting the relevant meter for your site.

3 Setup Complete

You have now commissioned your new inverter system.