SolaX Flexible, Dynamic and Backstop Control Registration Guide

Contents

1. SolaX supported inverters and communication dongles

Please ensure that your inverter and communication dongle both support DNSP's Flexible, Dynamic or Backstop Control.

Table 1: Supported inverters

Inverter Type	Phase	Series	Model Number
String (Grid-tied) Inverter	Single phase	X1-MINI-G4	X1-MINI-0.6K-G4 (AS4777-2 2020)
			X1-MINI-0.7K-G4 (AS4777-2 2020)
			X1-MINI-1.1K-G4 (AS4777-2 2020)
			X1-MINI-1.5K-G4 (AS4777-2 2020)
			X1-MINI-2.0K-G4 (AS4777-2 2020)
			X1-MINI-2.5K-G4 (AS4777-2 2020)
			X1-MINI-3.0K-G4 (AS4777-2 2020)
			X1-MINI-3.3K-G4 (AS4777-2 2020)
		X1-BOOST-G3.3 *Partially support *SA available *VIC/QLD checking	X1-3.0-T-D(L) (AS4777-2 2020)
			X1-3.3-T-D(L) (AS4777-2 2020)
			X1-3.6-T-D(L) (AS4777-2 2020)
			X1-4.2-T-D(L) (AS4777-2 2020)
			X1-5.0-T-D(L) (AS4777-2 2020)
			X1-6K-T-D(L) (AS4777-2 2020)
		X1-BOOST-G4	X1-BOOST-2.5K-G4 (AS4777-2 2020)
			X1-BOOST-3.3K-G4 (AS4777-2 2020)
			X1-BOOST-3.6K-G4 (AS4777-2 2020)
			X1-BOOST-3K-G4 (AS4777-2 2020)
			X1-BOOST-4.2K-G4 (AS4777-2 2020)
			X1-BOOST-5K-G4 (AS4777-2 2020)
			X1-BOOST-6K-G4 (AS4777-2 2020)
		X1-Smart-G2	X1-SMT-10K-G2 (AS4777-2 2020)
			X1-SMT-5K-G2 (AS4777-2 2020)
			X1-SMT-6K-G2 (AS4777-2 2020)
			X1-SMT-7K-G2 (AS4777-2 2020)
			X1-SMT-8K-G2 (AS4777-2 2020)
			X1-SMT-9K-G2 (AS4777-2 2020)
	Three phase	X3-MIC	X3-MIC-10K-G2 (AS4777-2 2020)
			X3-MIC-12K-G2 (AS4777-2 2020)
			X3-MIC-15K-G2 (AS4777-2 2020)
			X3-MIC-3K-G2 (AS4777-2 2020)
			X3-MIC-4K-G2 (AS4777-2 2020)

			X3-MIC-5K-G2 (AS4777-2 2020)
			X3-MIC-6K-G2 (AS4777-2 2020)
			X3-MIC-8K-G2 (AS4777-2 2020)
		X3-Pro	X3-PRO-10K-G2 (AS4777-2 2020)
			X3-PRO-12K-G2 (AS4777-2 2020)
			X3-PRO-15K-G2 (AS4777-2 2020)
			X3-PRO-17K-G2 (AS4777-2 2020)
			X3-PRO-20K-G2 (AS4777-2 2020)
			X3-PRO-25K-G2 (AS4777-2 2020)
			X3-PRO-30K-G2 (AS4777-2 2020)
			X3-PRO-8K-G2 (AS4777-2 2020)
Energy Storage (Hybrid) Inverter	Single phase	X1-Hybrid-G4	X1-Hybrid-3.0-D (AS4777-2 2020)
			X1-Hybrid-3.0-M (AS4777-2 2020)
			X1-Hybrid-3.7-D (AS4777-2 2020)
			X1-Hybrid-3.7-M (AS4777-2 2020)
			X1-Hybrid-5.0-D (AS4777-2 2020)
			X1-Hybrid-5.0-M (AS4777-2 2020)
			X1-Hybrid-6.0-D (AS4777-2 2020)
			X1-Hybrid-6.0-M (AS4777-2 2020)
			X1-Hybrid-7.5-D (AS4777-2 2020)
			X1-Hybrid-7.5-M (AS4777-2 2020)
		X1-IES	X1-IES-3.7K (AS4777-2 2020)
			X1-IES-3K (AS4777-2 2020)
			X1-IES-4.6K (AS4777-2 2020)
			X1-IES-5K (AS4777-2 2020)
			X1-IES-6K (AS4777-2 2020)
			X1-IES-8K (AS4777-2 2020)
		X1-Vast	X1-VAST-5K
			X1-VAST-6K
			X1-VAST-8K
			X1-VAST-10K
	Three phase	X3-Hybrid-G4	X3-Hybrid-5.0-D (AS4777-2 2020)
			X3-Hybrid-6.0-D (AS4777-2 2020)
			X3-Hybrid-8.0-D (AS4777-2 2020)
			X3-Hybrid-10.0-D (AS4777-2 2020)
			X3-Hybrid-12.0-D (AS4777-2 2020)
			X3-Hybrid-15.0-D (AS4777-2 2020)
		X3-IES	X3-IES-4K
			X3-IES-5K
			X3-IES-6K
			X3-IES-8K

			X3-IES-10K
			X3-IES-12K
			X3-IES-15K
		X3-ULT	X3-ULT-15K (AS4777-2 2020)
			X3-ULT-15KP (AS4777-2 2020)
			X3-ULT-19.9K (AS4777-2 2020)
			X3-ULT-20K (AS4777-2 2020)
			X3-ULT-25K (AS4777-2 2020)
			X3-ULT-30K (AS4777-2 2020)

Table 2: Supported communication dongles

Model	Example	Shape	SN start with
Pocket WiFi V3.0-P		S3 black external rod antenna	SS
Pocket WiFi+LAN		Black onboard antenna + black LAN port	SN
Pocket WiFi+4GM		Black onboard antenna + external extension antenna	SM
Pocket WiFi+LAN V2.0		Black built-in foam antenna + black LAN port	XW

2. System Installation

Please download and refer to the Quick Installation Guide and User Manual through the links below.

Inverter Type	Phase	Series	Link
String (Grid-tied) Inverter	Single phase	X1-MINI-G4	https://www.solaxpower.com/products/x1-mini/
		X1-BOOST-G3.3	https://www.solaxpower.com/products/x1-boost/
		X1-BOOST-G4	https://www.solaxpower.com/products/x1-boost/
		X1-Smart G2	https://www.solaxpower.com/products/x1-smart/
	Three phase	X3-MIC-G2	https://www.solaxpower.com/products/x3-mic/
		X3-Pro-G2	https://www.solaxpower.com/products/x3-mic-pro/
Energy Storage (Hybrid) Inverter	Single phase	X1-Hybrid-G4	https://www.solaxpower.com/products/x1-hybrid-g4/
		X1-IES	https://www.solaxpower.com/products/ies/
		X1-Vast	https://www.solaxpower.com/products/x1-vast/
	Three phase	X3-Hybrid-G4	https://www.solaxpower.com/products/x3-hybrid-g4/
		X3-IES	https://www.solaxpower.com/products/x3-ies/
		X3-ULTRA	https://www.solaxpower.com/products/x3-ultra/

3. System commissioning (SolaXCloud account and plant set-up)

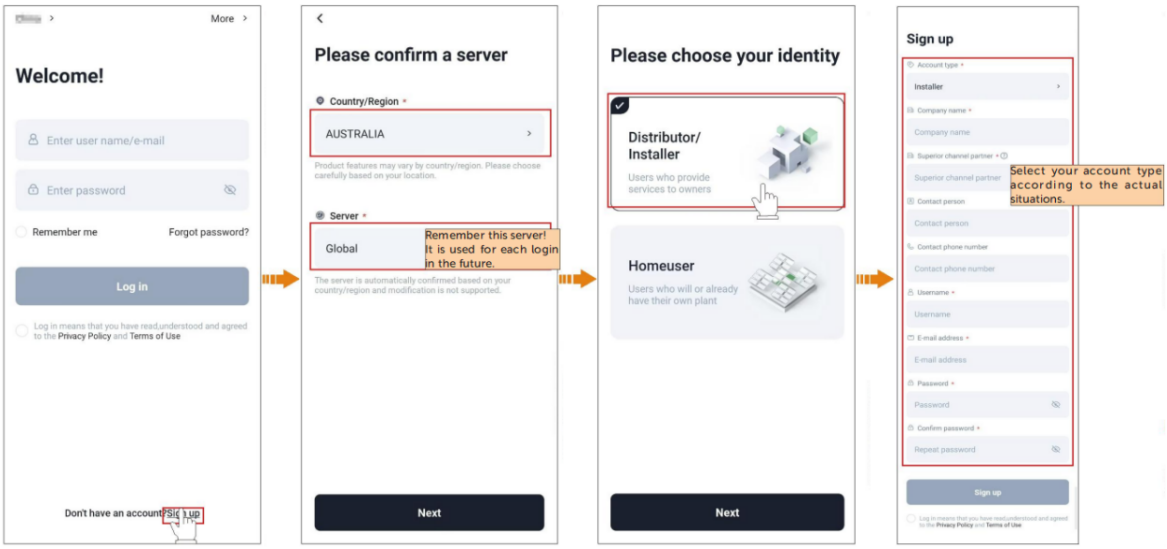
3.1 Install the SolaXCloud App

Method 1: Scan the QR code below to install the SolaXCloud App.

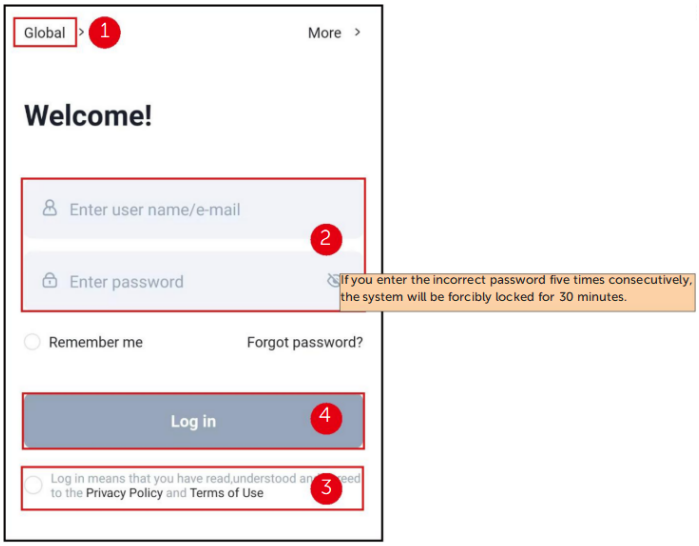
Method 2: Search for "**SolaXCloud**" in the App Store or Google Play Store, to install the App.

3.2 Acquire or Register an Account

Create an account as below, or acquire an account from your superior channel.



3.3 Log in to the SolaXCloud App



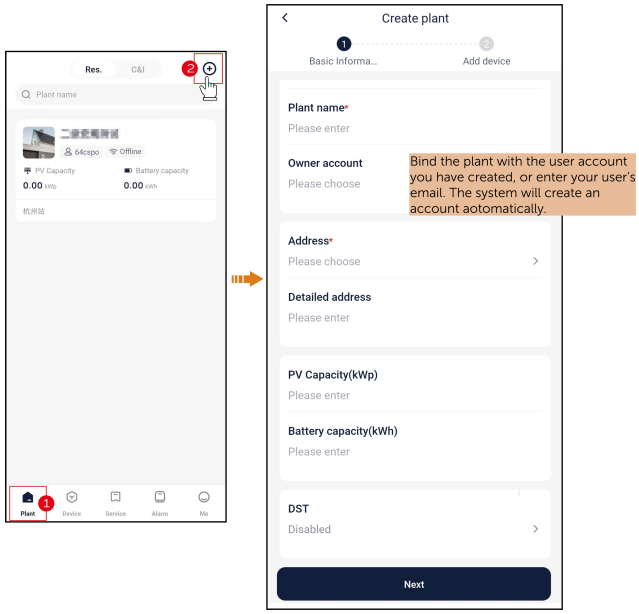
3.4 Create a plant

SolaX devices, such as Dongle Pocket, Datahub, Adapter-box, EVC, and X1-Micro, all can connect to the SolaxCloud.
Here only take Dongle Pocket (used for communication of an inverter) as an example, to describe the complete procedure of creating a plant.

Steps for creating a plant
1. Add the plant information.
2. Add device.
3. Configure Wi-Fi, 4G or LAN as needed.
4. Connect to hotspot.
5. Wait for the device to connect to the SolaXCloud.
6. Confirm the added device and complete plant creation.
7. Go to check and switch phone WLAN to family Wi-Fi.

Not applicable in the two situations:
- Dongle Pocket 4G, for its configuration information has been burned into its body upon delivery.
- Dongle Pocket Wi-Fi+LAN (NOT Wi-Fi+LAN V2.0) and select LAN as the communication method: The LAN does not need to be configured!

Step 1: Fill in the basic information of plant.

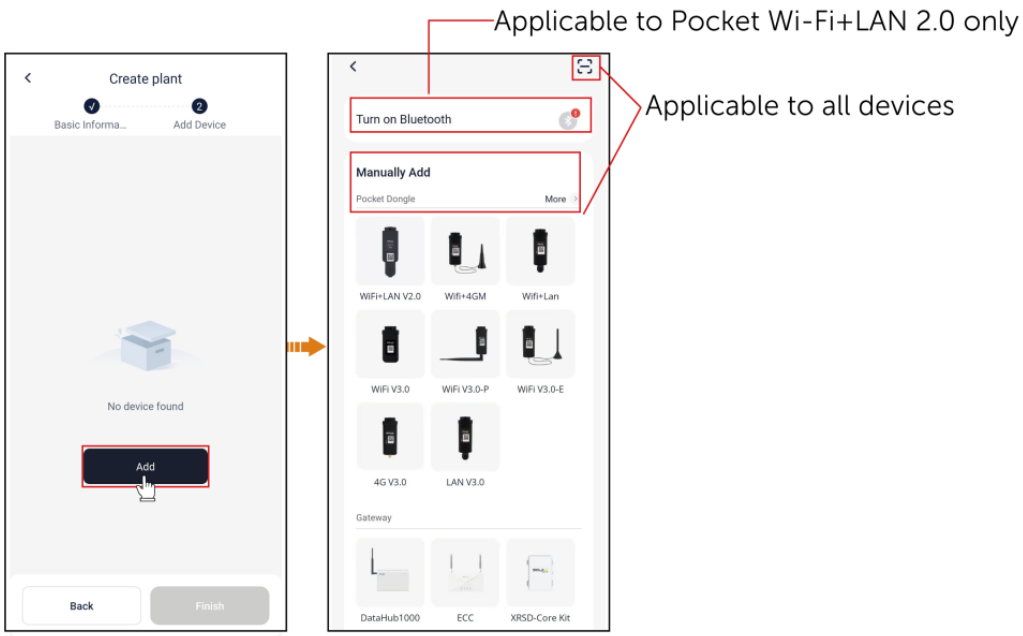


Note: About filling in Owner account, if you enter the owner's email but the owner has had an account, the system will associate the plant with the account; if the owner hasn't had an account, the system will automatically create an account and send a password to the email first, and then associate the plant with the account.

Step 2: Select the proper method to add a device.

- **Bluetooth (Support Pocket Wi-Fi+LAN 2.0 only)**: Enable the Bluetooth permission. The system will automatically search for the device. After the system found the device, tap to add it.

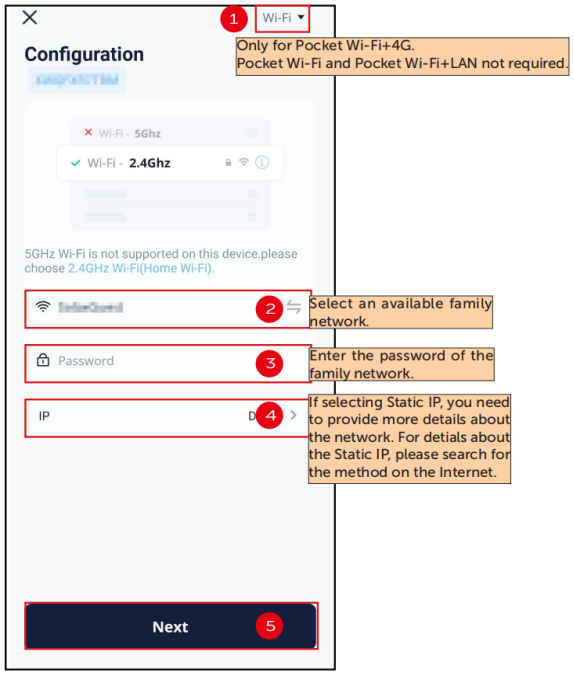
- **Manually add (Applicable to all devices)**: Select the proper device type according to the device you hold, and then scan to enter or directly manually enter the device registration number.
- **Scan (Applicable to all devices)**: Tap the icon in the upper right corner, to scan to enter or directly manually enter the device registration number.



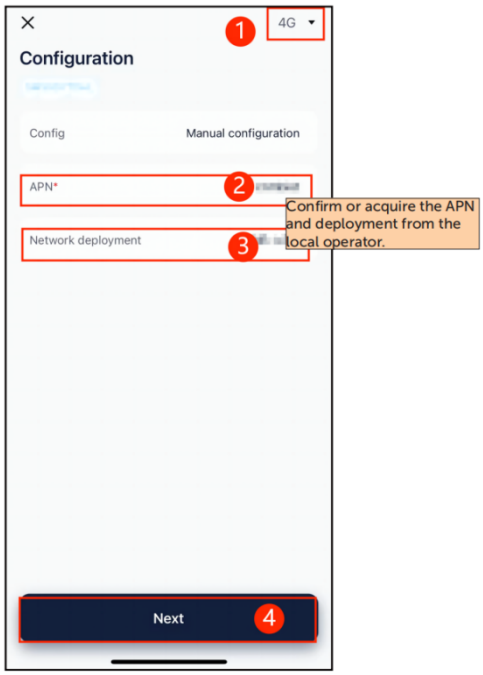
Steps 3 and 4 below are only applicable to user who select Wi-Fi or 4G as the communication method as well as who use Pocket Wi-Fi+LAN 2.0.

Step 3: Configure Wi-Fi, 4G, or LAN.

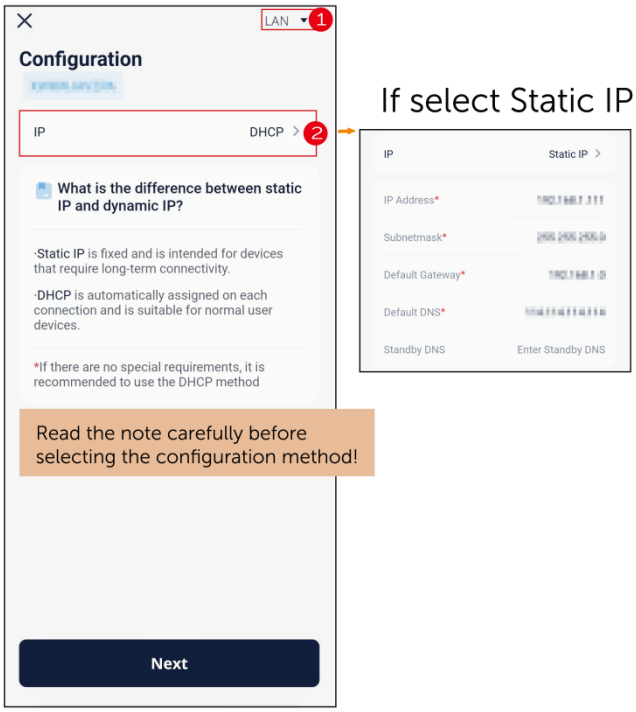
Wi-Fi



4G



LAN

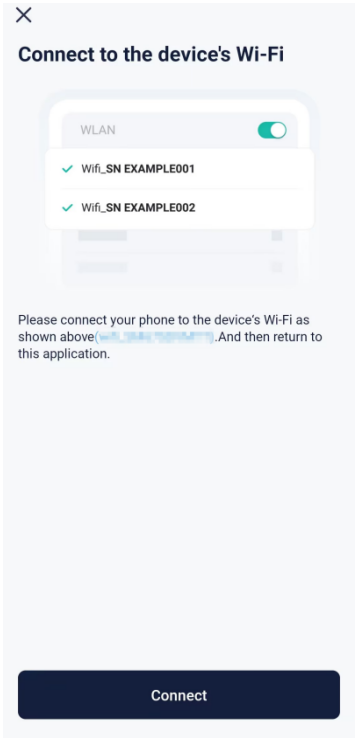


Note: If you failed in configuring the network, you can seek out a solution according to the provided suggestions.

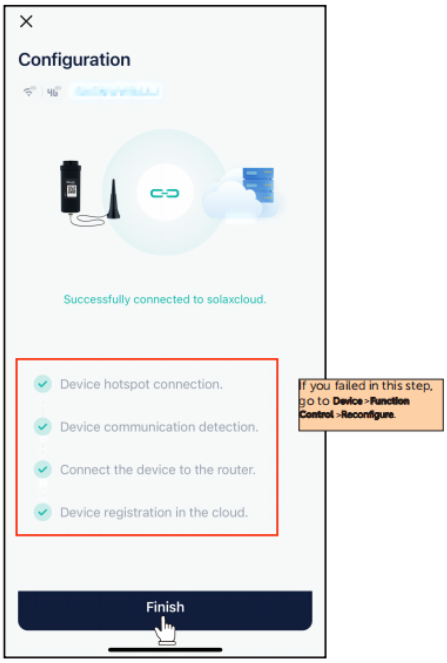
Directly skip from Step 3 to Step 5, if you are:

- **Pocket Wi-Fi+LAN 2.0 user, or**
- **NOT vivo, HUAWEI, and OPPO phone user.**

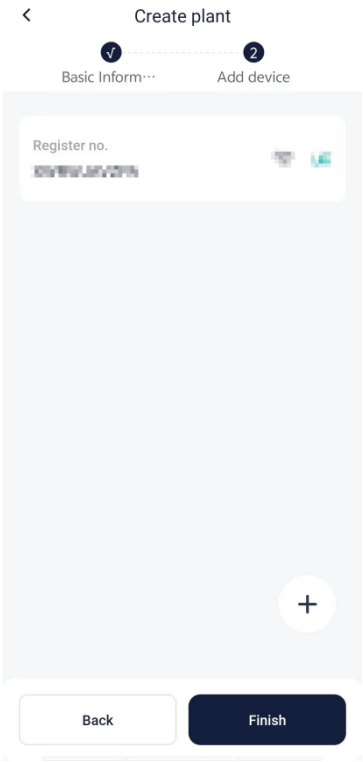
Step 4: Tap **Connect** and switch the phone WLAN to the device hotspot. The hotspot name is: Wifi_device SN. After that, return to the SolaXCloud App.



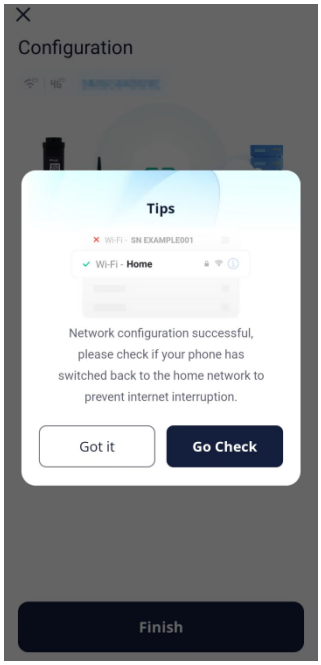
Step 5: Wait for the device to connect to the SolaXCloud until all items turn into , which indicates that the device connects to the SolaXCloud successfully. Tap **Finish**.



Step 6: Confirm the already added device after returning to the add-plant procedure page, and tap **Finish**, to complete plant creation. You can find the plant in the plant list.



Step 7 (Pocket Wi-Fi+LAN 2.0 Not applicable): Tap **Go Check**, to ensure that the phone WLAN has been switched to the family Wi-Fi. After switchover, return to this App and tap **Got it**.



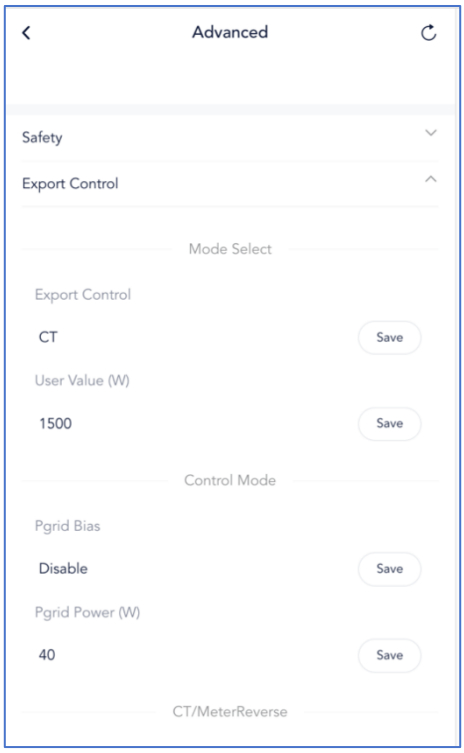
4. Inverter export control set up and check

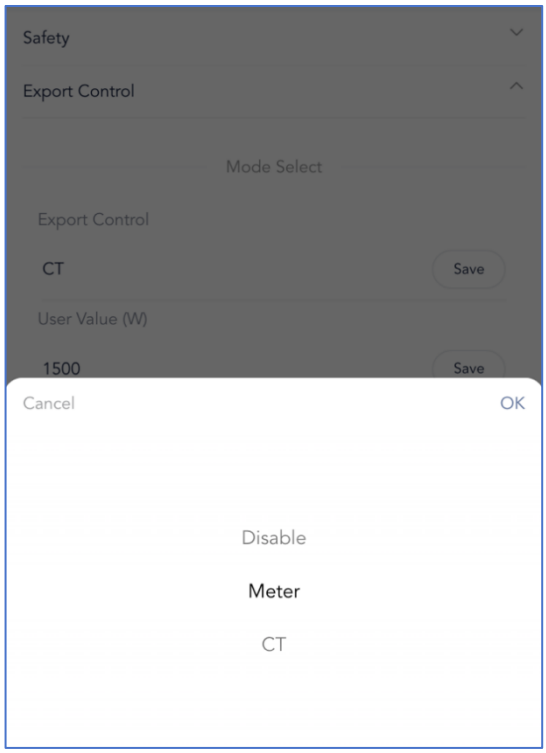
Export control (Meter or CT) must be enabled in the inverter setting to comply with Flexible, Dynamic and Backstop Control.

Please follow each inverter model's user manual for "Export Control" setting.

- Select "Meter" if the inverter is installed with an external meter like a Chint meter.
- Select "CT" if the inverter is installed as in-build CT which comes with the box.

Note: Not all model can utilize an in-build CT. Please refer to inverter's user manual.





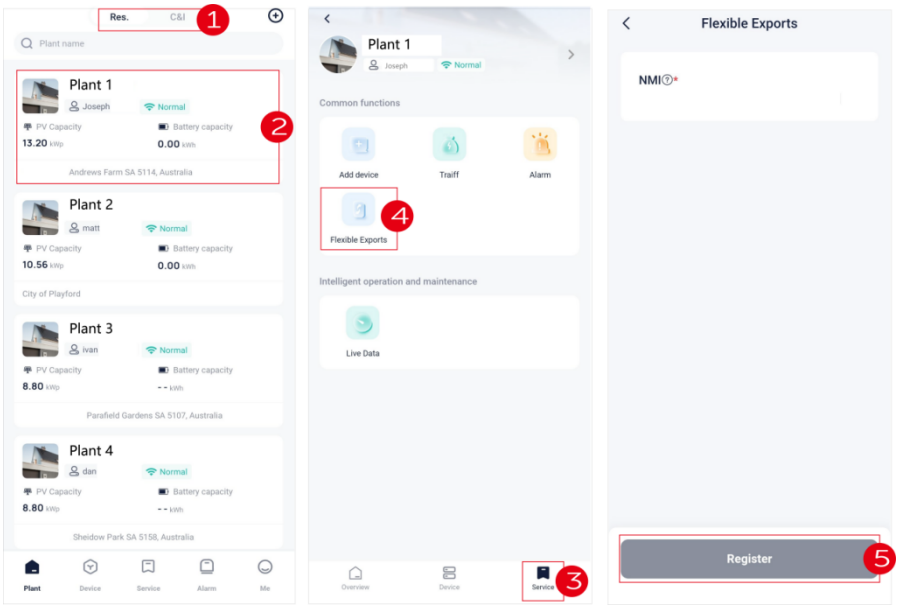
5. Close out the DNSP pre-approval job application

This step may vary with DNSPs. Please follow the instructions on each DNSP's pre-approval application platform.

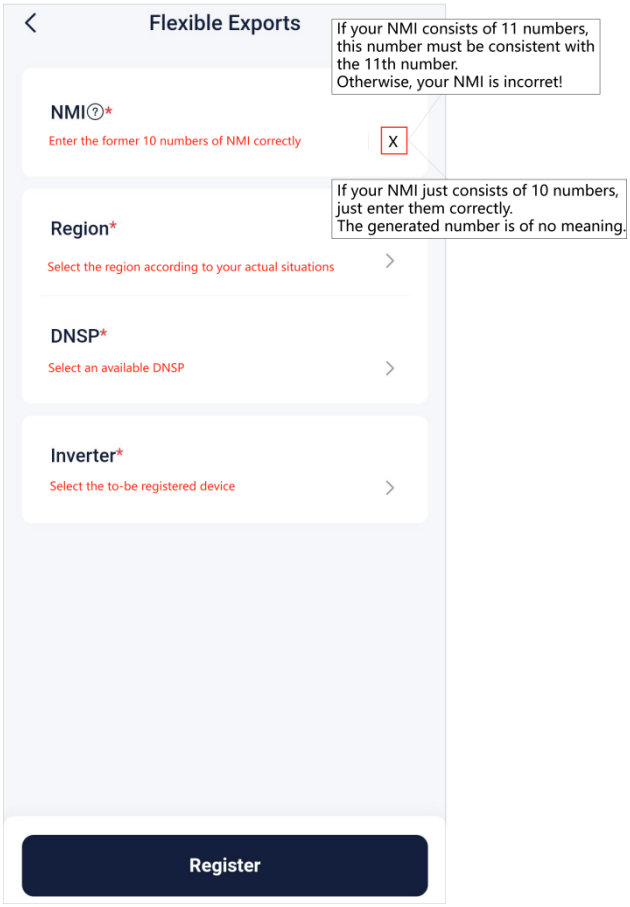
SAPN for example:

6. Registration on SolaXCloud APP (Distributor/Installer account only)

Step 1: Log in to the SolaXCloud App. Do as follows to get registration started.

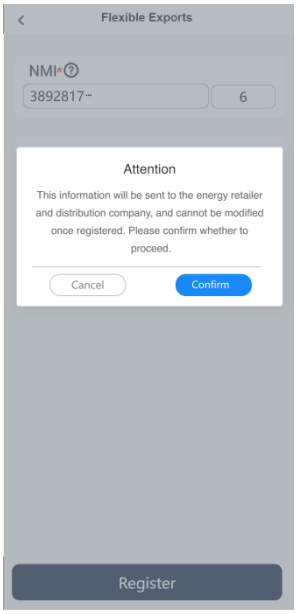


Step 2: Enter related information for device registration.

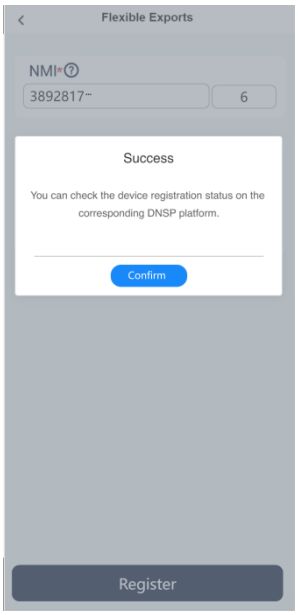


Note: In a multi-inverter parallel scenario, you only need to register for the master inverter.

Step 3: If your information filled is correct, tap **Confirm** to proceed registration.



Step 4: If the pop-up window shows that registration succeeds, tap **Confirm** and go to check the device registration status on the DNSP platform.



7. Registration process and Capability test on the DNSP platform

Please refer to DNSP's instruction.

SA-SAPN: https://www.sapowernetworks.com.au/industry/flexible-exports/installer-information-for-flexible-exports/

QLD-Ergon&Energex: https://www.ergon.com.au/network/our-services/connections/residential-and-commercial-connections/solar-connections-and-other-technologies/dynamic-connections-for-energy-exports/dynamic-connections-for-installers

QLD-Energex: https://www.energex.com.au/our-services/connections/residential-and-commercial-connections/solar-connections-and-other-technologies/dynamic-connections-for-energy-exports/dynamic-connections-for-installers

VIC-UE:
https://www.unitedenergy.com.au/partners/solar-installers/

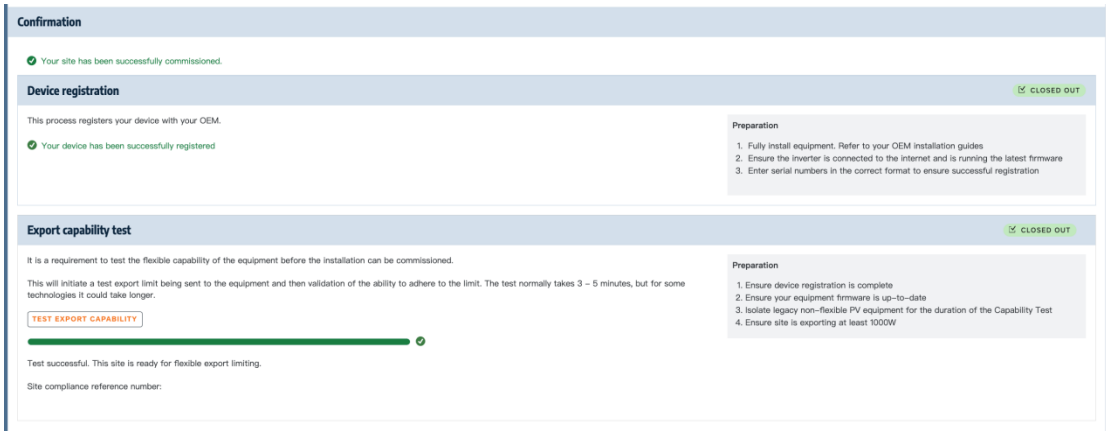
VIC- AUSNET: https://www.ausnetservices.com.au/renewable-solutions/industry-solar/solar-retailers-and-installers

VIC- JEMENA: https://www.jemena.com.au/electricity/solar-and-other-technologies/emergency-backstop-mechanism/

8. Completion check

Congratulations!!! You have passed the capability test and completed all the processes.
Thanks for your efforts.

Example from SAPN,


Confirmation
Your site has been successfully commissioned.
Device registration
CLOSED OUT
This process registers your device with your OEM.
Your device has been successfully registered
Preparation
1. Fully install equipment. Refer to your OEM installation guides
2. Ensure the inverter is connected to the internet and is running the latest firmware
3. Enter serial numbers in the correct format to ensure successful registration
Export capability test
CLOSED OUT
It is a requirement to test the flexible capability of the equipment before the installation can be commissioned.
This will initiate a test export limit being sent to the equipment and then validation of the ability to adhere to the limit. The test normally takes 3 – 5 minutes, but for some technologies it could take longer.
TEST EXPORT CAPABILITY
Test successful. This site is ready for flexible export limiting.
Site compliance reference number:
Preparation
1. Ensure device registration is complete
2. Ensure your equipment firmware is up–to–date
3. Isolate legacy non–flexible PV equipment for the duration of the Capability Test
4. Ensure site is exporting at least 1000W