SOLAR RELAY

INVERTER CONTROL
with ESY SUNHM

Models:
HM6

CATCH Power
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Installation Overview

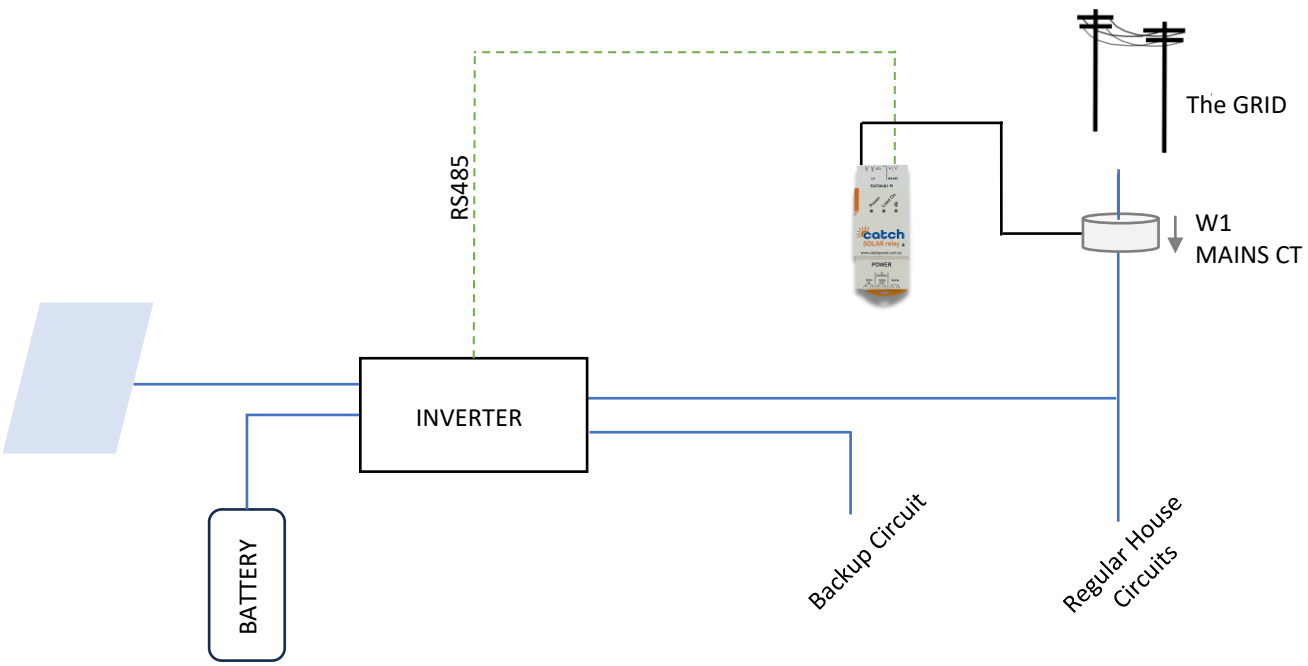
1. Install the Inverter as per the Inverter Installation Guide.
2. Install the CATCH Control as per the CATCH Electricians Guide.
3. Adjust the CATCH CT wiring as show in this document.
4. Connect the RS485 bus between the CATCH Control and the inverter as shown in this document.
5. Run the CATCH Commissioner wizard up to Step 6.
6. Complete the inverter Commissioning as per the manufacturers install guide.
7. Setup modify the inverter setup as outlined in this document.
8. Finish the CATCH Commissioner wizard.

CT Configuration

For ESYSUN HM installations it is not necessary to install the second CT (W2). We will extract the solar production data from the RS485 connection we make with the inverter.

You can use this CT to monitor another circuit if necessary.

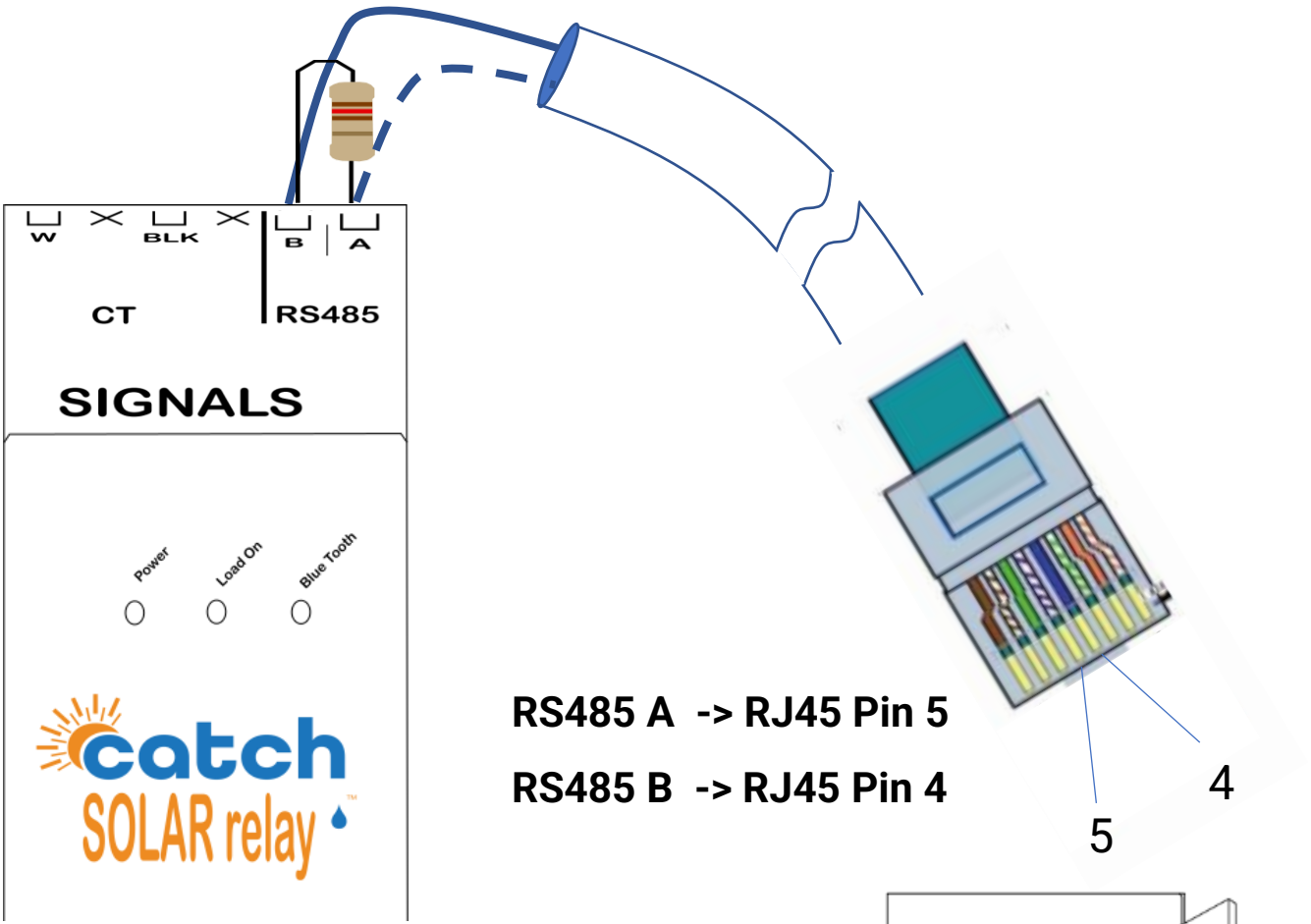
If you do decide to use W2 to monitor another consumption circuit make sure you specify the channel purpose as OTHER during the commissioning process.

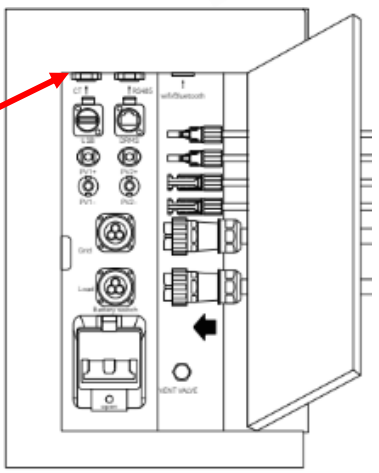


IMPORTANT

This guide discusses the specific wiring and configuration need to implement inverter control. Ensure the installation guide for both products is also followed.

Wiring Instructions





Ensure the data cable is rated for the voltages it will be in close proximity to.

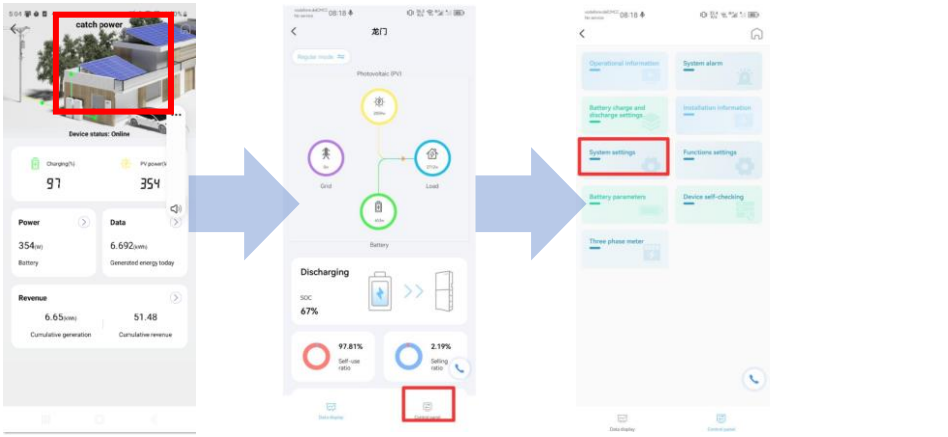
A 120 Ohm terminating resistor may be required at the CATCH Relay terminals as shown in the diagram below if the cable run is longer than 10m.

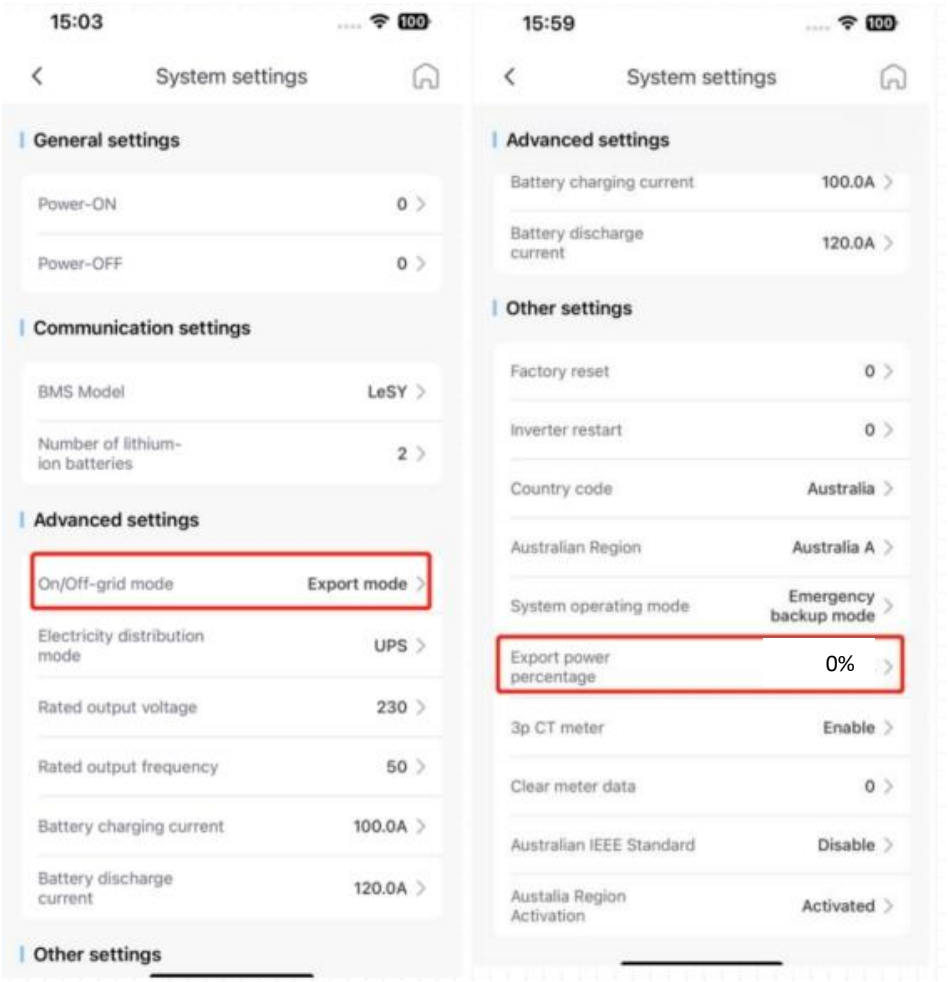
Inverter Setup

There are 2 apps. Make sure you are using the + app.

To set the desired site export limit following the screen flow below.

ESYSunHome+

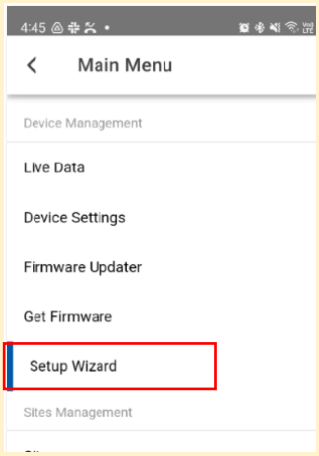




CATCH Commissioning Wizard

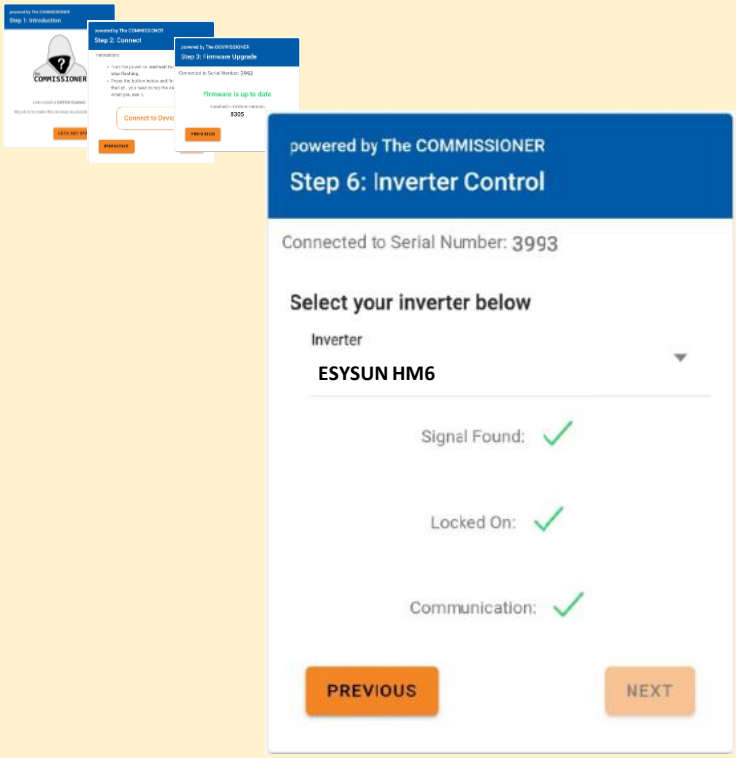
1. Log into the CATCH Configurator and run the Commissioner.

CATCH Power Configurator



2. Follow the Commissioner step by Step.

Step 6: Inverter Control
choose **ESYSUN HM6** as the meter.

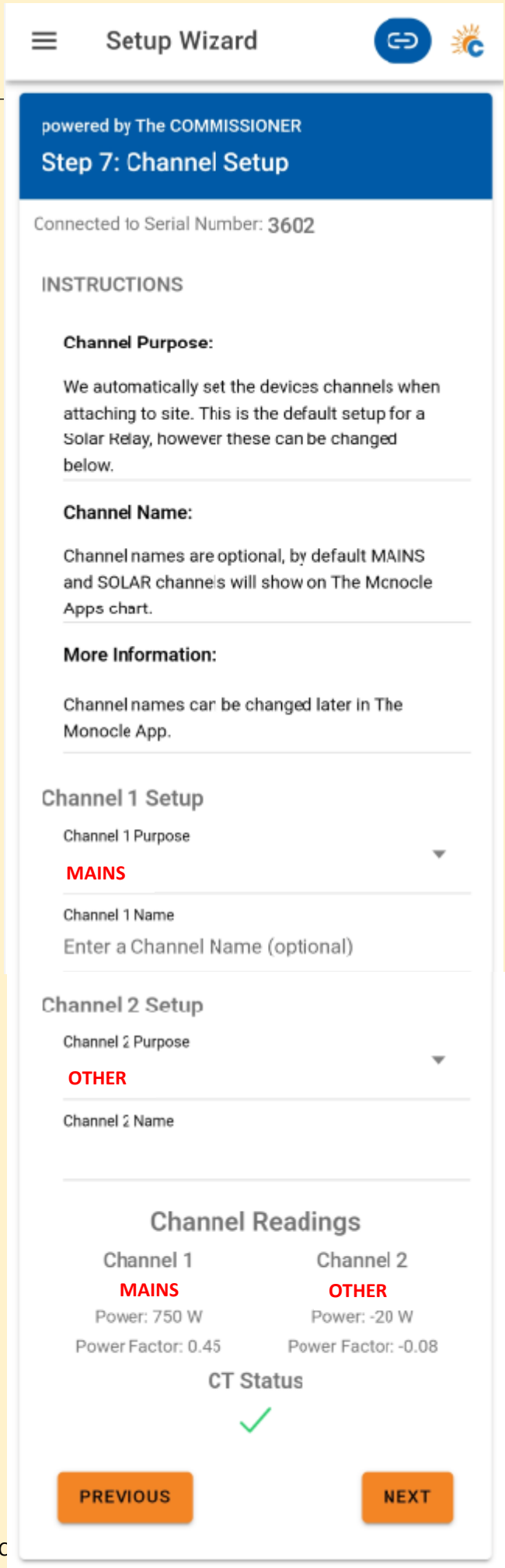


Choose: **ESYSUN HM6**

You will need to get All **GREEN** ticks before you can continue,

CATCH Commissioning Wizard

Step 7: Channel Setup
In the CT configuration is setup as shown with CH1 set as MAINS and CH2 is OTHER.



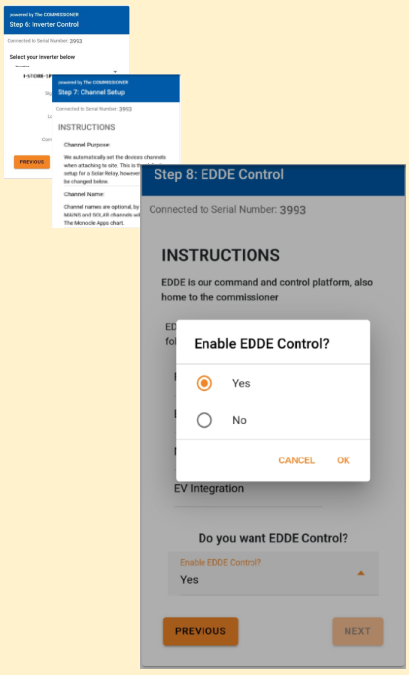
CATCH Commissioning Wizard

Now go back to the CATCH Configurator and restart the wizard.

Step 8: EDDE Control
choose if you want EDDE Control enabled.

You will need EDDE Control to be YES if you want any of the following features.

- Flexible Exports
- Inverter Control
- Market based pricing control such as AMBER curtailment
- EV Integration



SOLAR RELAY Setup

2. Follow the Commissioner step by Step.

Step 8: EDDE Control
choose if you want EDDE Control enabled. If you choose *Yes* you should have set the inverter export limit to zero in the inverter configuration earlier.

NOTE:
If you choose NO to Edde Control you need to go back and set the site export in the inverter to something other than zero.

You will need EDDE Control to be YES if you want any of the following features.

- Flexible Exports
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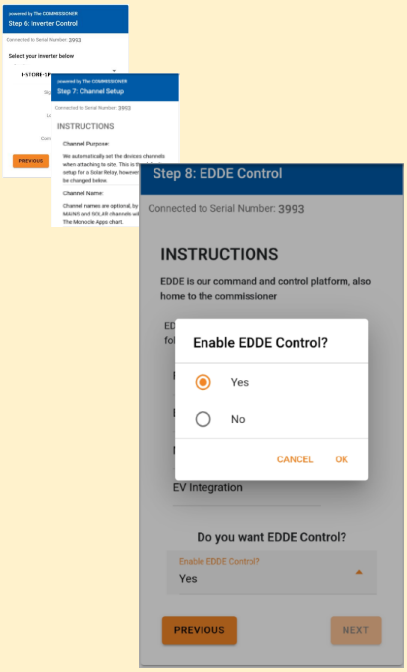
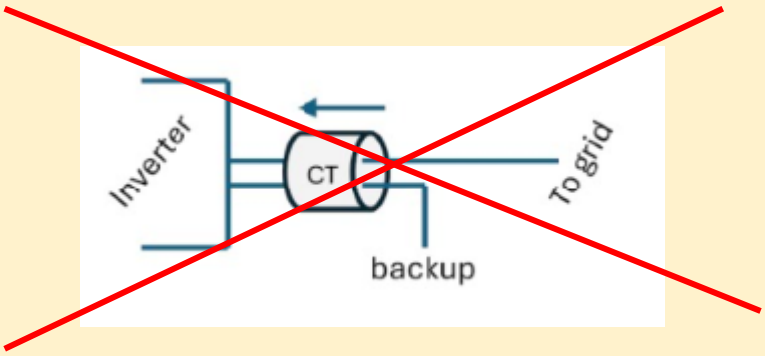
- EV Integration



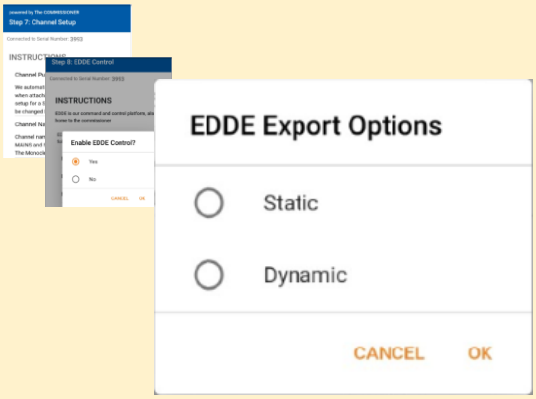
SOLAR RELAY Setup

Step 9: EDDE Export Control
If you choose YES for EDDE Control we will take care of the site export limit, not the inverter.

IGNORE THE INSTRUCTIONS ABOUT THE SOLAR CT…YOU DO NOT NEED TO DO THIS.



Tell us how the export limit is to be managed.



Static: Is when the DNSP tells you there is a fixed export limit. Example the connection application might say the site is limited to 5kW. This is a static export limit.

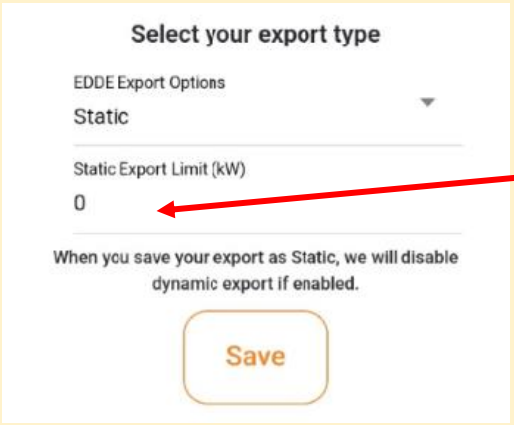
Dynamic: When you put the connection application in you would have nominated for the dynamic connection. The DNSP will adjust the export limit based on daily requirements.
You will need the NMI to complete the dynamic connection setup.

SOLAR RELAY Setup

2. Follow the Commissioner step by Step.

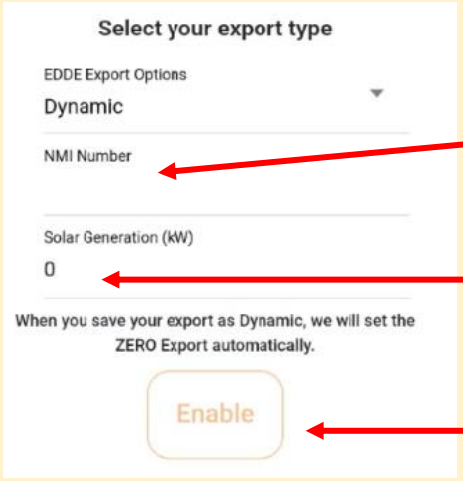
Step 9: EDDE Export Control..Continued

Static Export Configuration:



Fill out the export limit. For example if the site has a 5kw export limit type in 5 for the export limit and press **SAVE**

Dynamic Export Configuration:



Enter the customers NMI. This can be a 10 or 11 digit NMI.

Tells us the total amount of solar on site. Including any old systems.

Press Enable.

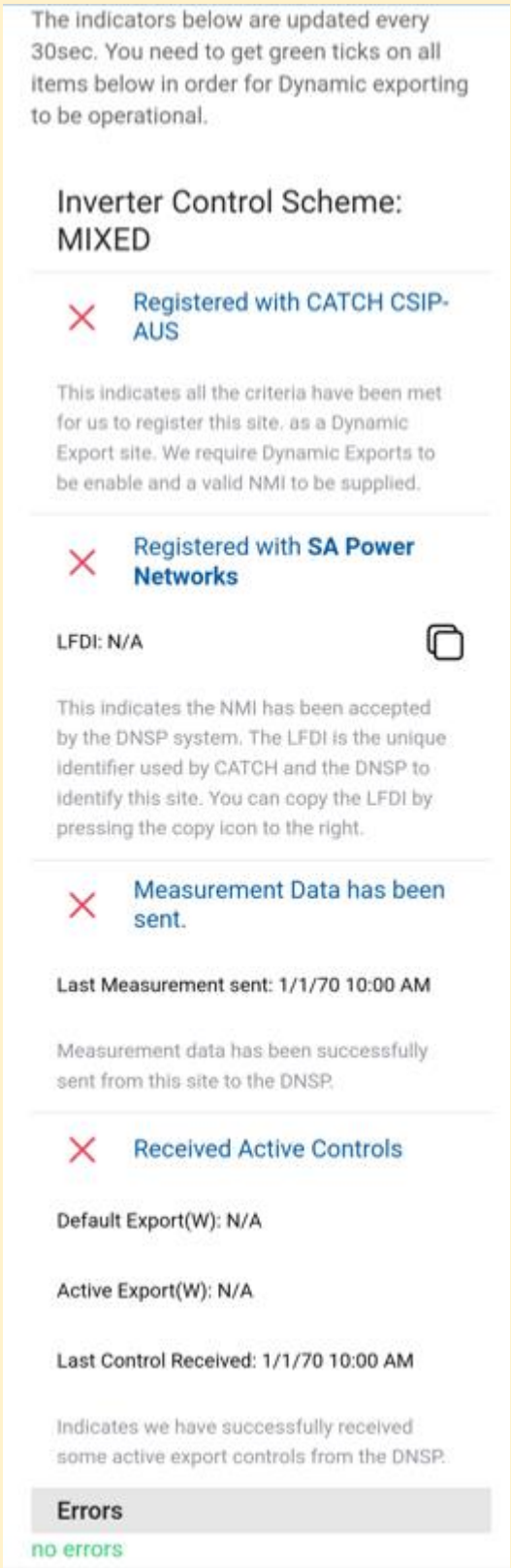
SOLAR RELAY Setup

2. Follow the Commissioner step by Step.

Step 9: EDDE Export Control..Continued

<u>Dynamic Export Configuration - Continued:</u>

Once you have filled out the required information and pressed save the follow appears and shows you how the registration for dynamic exports is progressing… You want to see all green ticks for everything to be working.

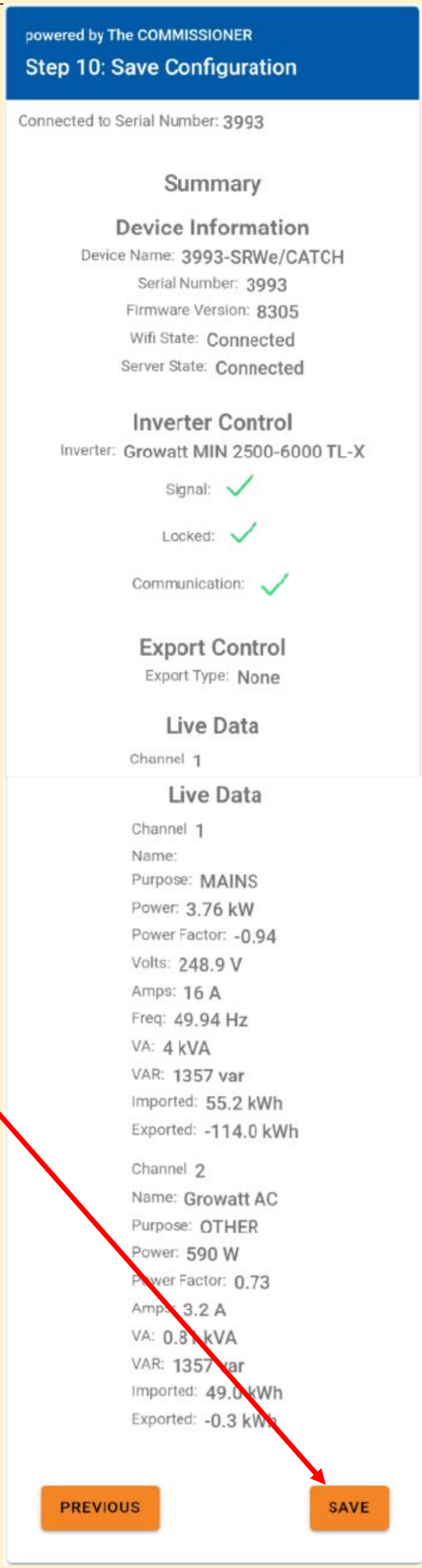


SOLAR RELAY Setup

2. Follow the Commissioner step by Step.

Step 10: Save Configuration

The final step is to review the configuration, and Press **SAVE**.



SOLAR RELAY Setup

Navigate to the Configuration page, and under the Modbus configuration set the parameters as shown.