

SOLAR RELAY

with SUNGROW SG5K-D / SGX.0RS / SHX.0RS





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SG5K-D

IMPORTANT



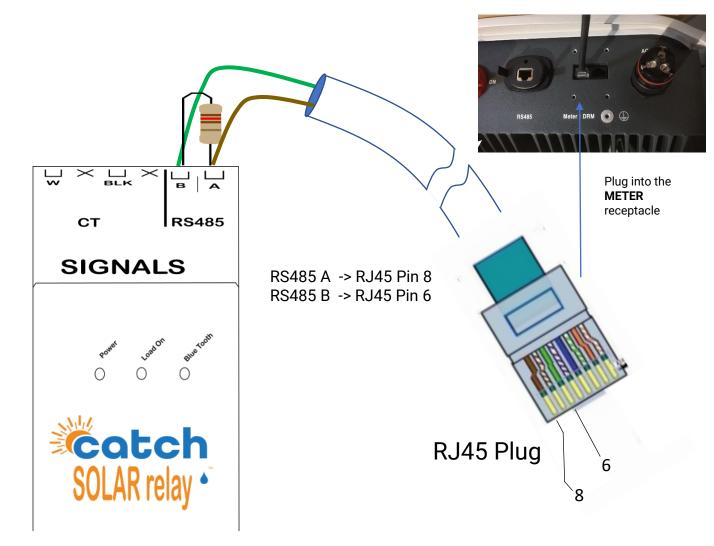
This guide discusses the specific wiring and configuration need to implement inverter control. Ensure the installation guide for both products is also followed.

Wiring Instructions – SG5K-D

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.



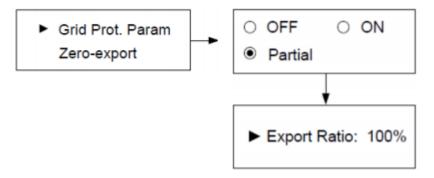


SG5K-D

Inverter Setup – SG5K-D

The next step is to set the unit up for export control.

Enter into "Settings", enter the password (111) and scroll to "Zero Export" and enter.



Export Ratio:

As an example value for this field. If you are configuring a 5kW inverter, and the export limit is 3kW. This should be set to 100* 3kw/5kw = 60.0



SGx-RS

IMPORTANT



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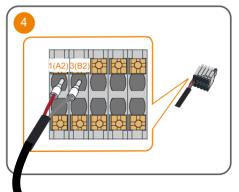
Wiring Instructions – SGx-RS

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

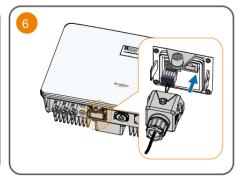
A 120 Ohm terminating resistor may be required at the CATCH Relay terminals as shown in the diagram below if the cable run is longer than 10m.



SG8.ORS







SG5.ORS

RS485 A -> 3(A2)

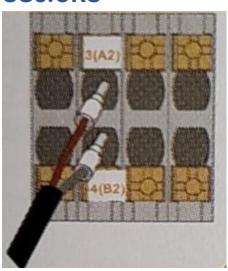
RS485 B -> 4(B2)

SG8.ORS

RS485 A -> 1(A2)

RS485 B -> 3(B2)

SG5.ORS





SHx.ORS

IMPORTANT



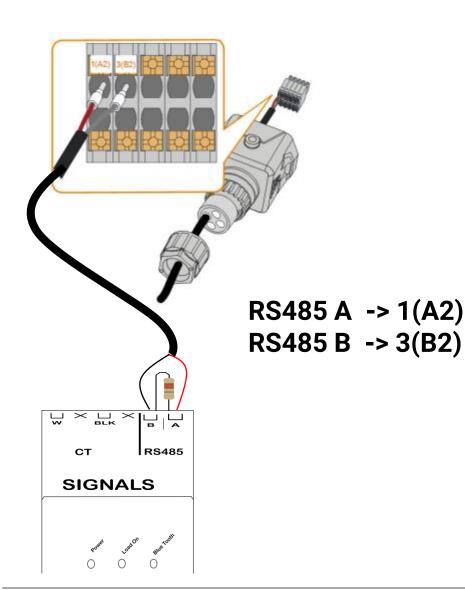
This guide discusses the specific wiring and configuration need to implement inverter control. Ensure the installation guide for both products is also followed.

Wiring Instructions – SHx.0RS

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

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SOLAR RELAY Setup

The screen below is from the CATCH Power Configuration App. The App can be downloaded from Google Play Store or the Apple iStore.

IMPORTANT



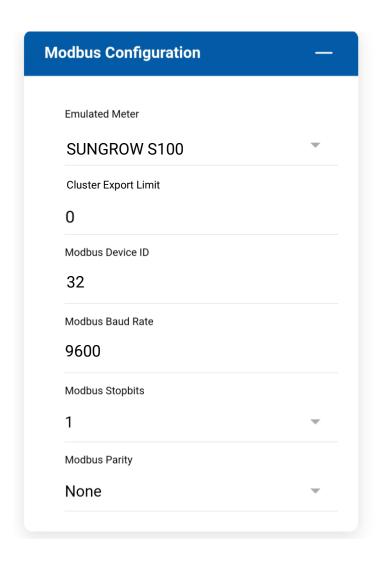
DO A FIRMWARE UPGRADE BEFORE YOU BEGIN

We are adding new inverters, and new control features all the time. Your relay firmware is most likely out of date already. Follow the onscreen instructions and perform a firmware update before you continue on



SOLAR RELAY Setup

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

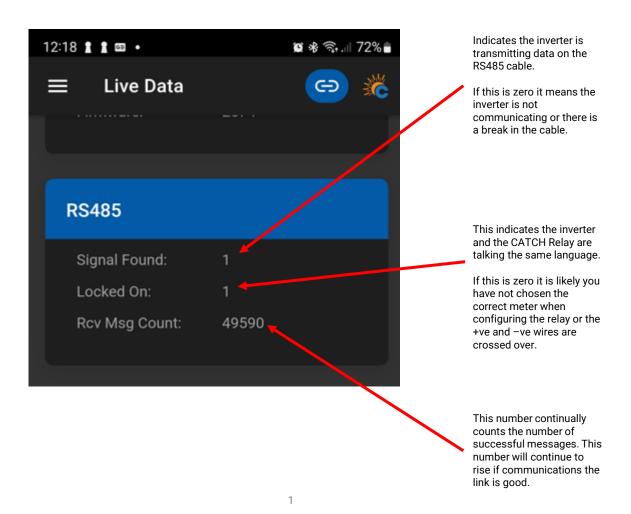




Checking the status of the RS485 interface

Within the CATCH Power app if you navigate to the bottom of the Live Data screen you will see something similar to the screen below.

The RS485 Status Can be used to confirm correct operation



THE FOLLOWING ONLY NEEDS
TO BE FOLLOWED IF YOU ARE ENABLING
DYNAMIC / FLEXIBLE EXPORTS

DYNAMIC / FLEXIBLE EXPORT CONTROL



RTU Control

DYNAMIC / FLEXIBLE Export Control



NO NATIVE MONITORING

If you choose to use RTU Control for this inverter, the inverter monitoring platform will not work



DYNAMIC / FLEXIBLE EXPORT CONTROI

NO BATTERIES

RTU Control cannot be used on Hybrid inverters that have a battery connected.

Set the inverter export limit to **ZERO**



DYNAMIC / FLEXIBLE EXPORT CONTRO

SUNSPEC Control

DYNAMIC / FLEXIBLE Export Control

SUNSPEC Configuration

SUNGROW Does not support SUNSPEC over modbusTCP

REGISTER SITE

DYNAMIC / FLEXIBLE Export Control

Follow the Configuration steps in the Electricians Guide to register the site for the MONOCLE, and for Dynamic / Flexible Exports

DYNAMIC / FLEXIBLE EXPORT CONTROL