



# CATCH Control

INVERTER CONTROL  
with  
SUNGROW  
SG5K-D



**CATCH Power**  
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**IMPORTANT**



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

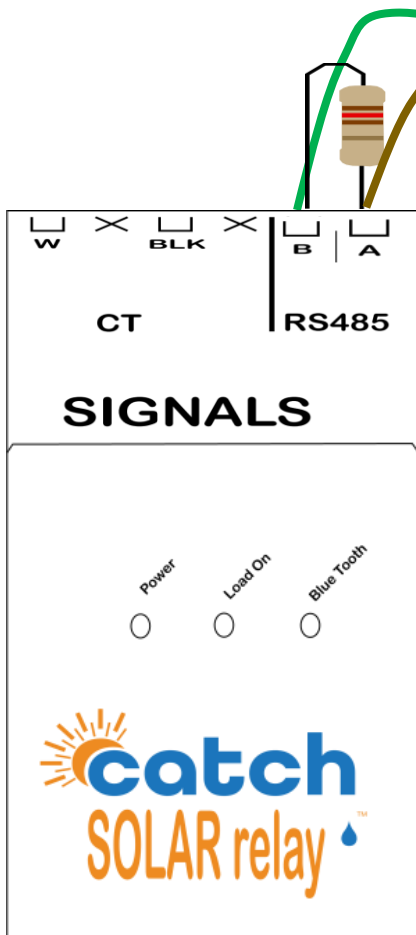
## Wiring Instructions – SG5K-D

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

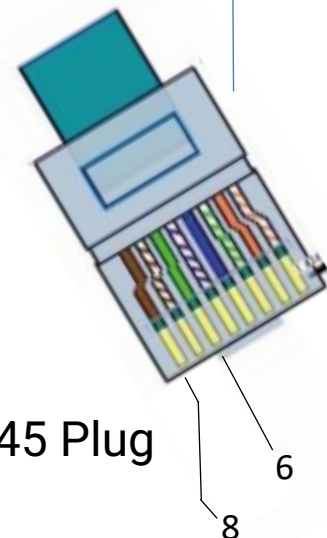
A 120 Ohm terminating resistor may be required at the CATCH Control terminals as shown in the diagram below if the cable run is longer than 10m.



Plug into the **METER** receptacle



RS485 A -> RJ45 Pin 8  
RS485 B -> RJ45 Pin 6



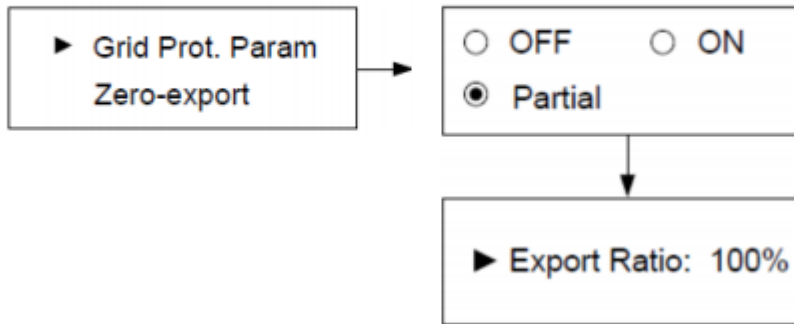
RJ45 Plug

6  
8

## 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  $100 * 3\text{kw} / 5\text{kw} = 60.0$

# CATCH Control 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 Your relay firmware is most likely out of date already.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

# CATCH Control Setup

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

### Modbus Configuration

Emulated Meter  
**SUNGROW S100**

Cluster Export Limit  
**0**

Modbus Device ID  
**32**

Modbus Baud Rate  
**9600**

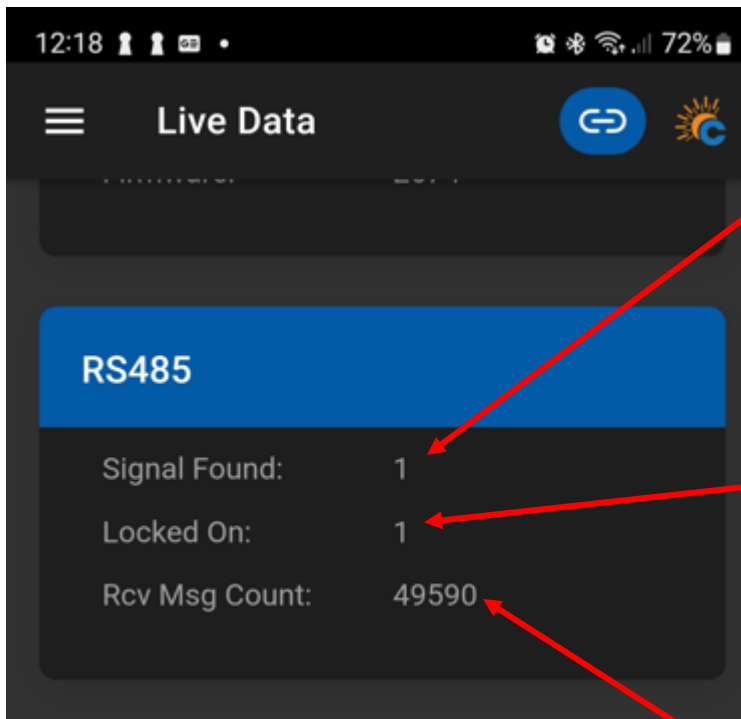
Modbus Stopbits  
**1**

Modbus Parity  
**None**

# 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



Indicates the inverter is transmitting data on the RS485 cable.

If this is zero it means the inverter is not communicating or there is a break in the cable.

This indicates the inverter and the CATCH Relay are talking the same language.

If this is zero it is likely you have not chosen the correct meter when configuring the relay or the +ve and -ve wires are crossed over.

This number continually counts the number of successful messages. This number will continue to rise if communications the link is good.

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



## NO NATIVE MONITORING

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



## NO BATTERIES

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

Set the inverter export limit to **ZERO**



## SUNSPEC Configuration

SUNGROW Does not support  
SUNSPEC over modbusTCP



# REGISTER SITE

DYNAMIC / FLEXIBLE Export Control

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

DYNAMIC / FLEXIBLE EXPORT CONTROL

DYNAMIC / FLEXIBLE EXPORT CONTROL