



SOLAR RELAY

INVERTER CONTROL
with SAJ



Models:
R6-x.xK-S3

CATCH Power
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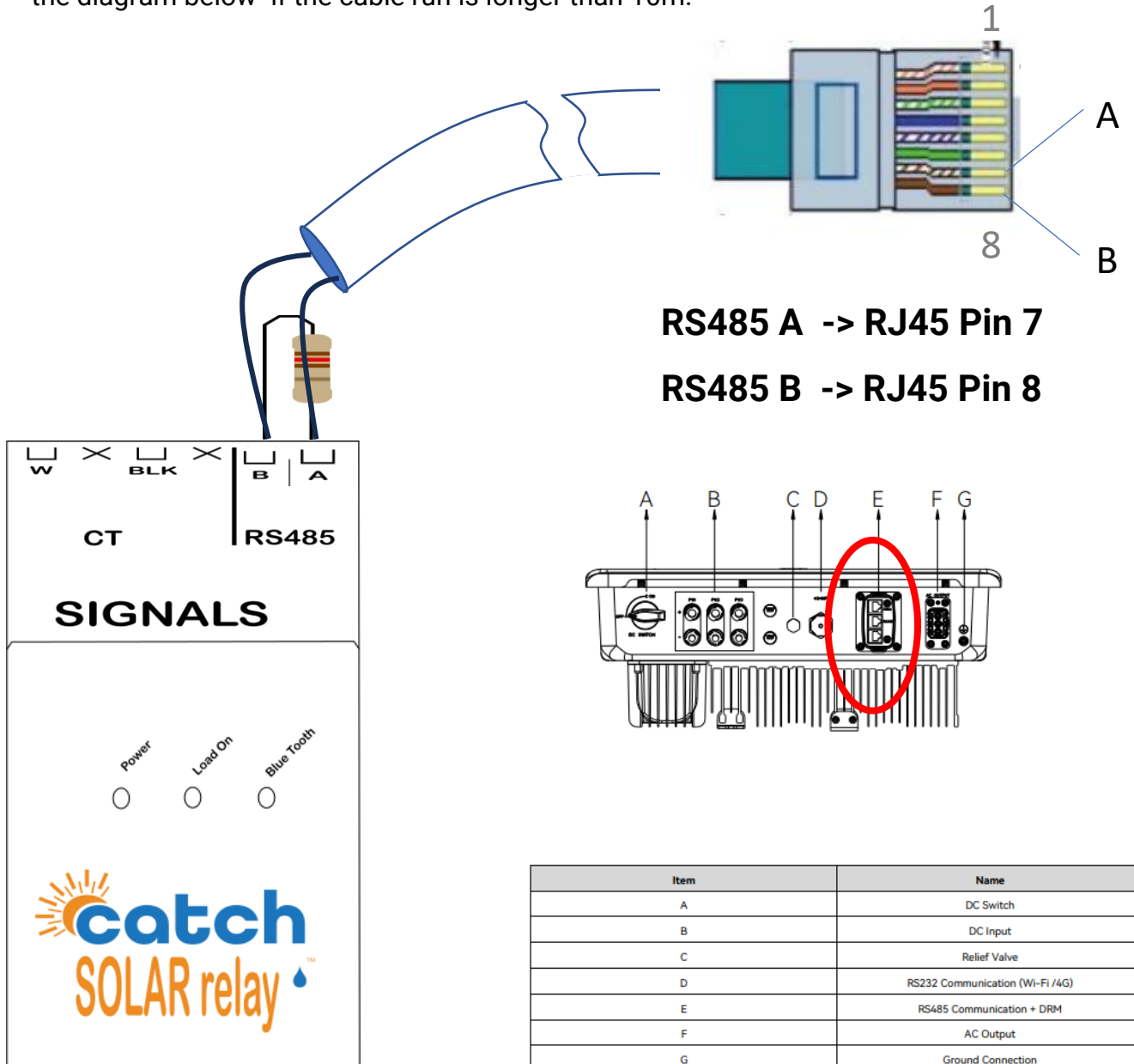
IMPORTANT



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

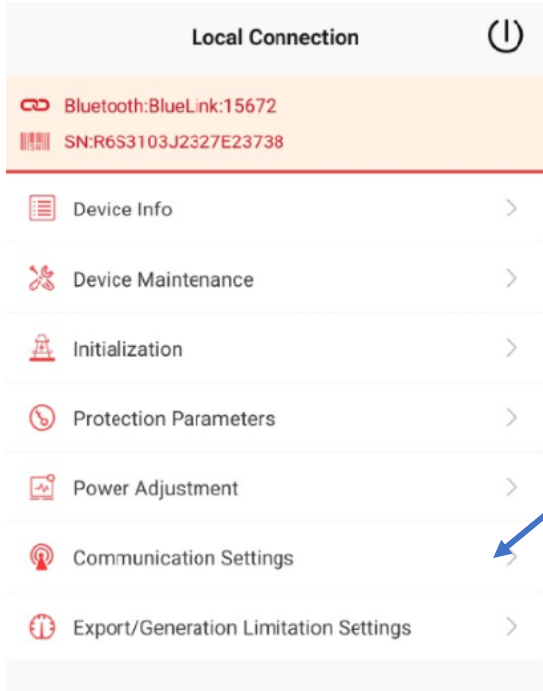
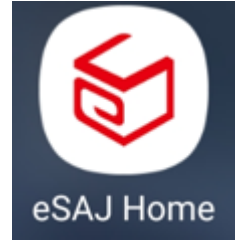
Wiring Instructions

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

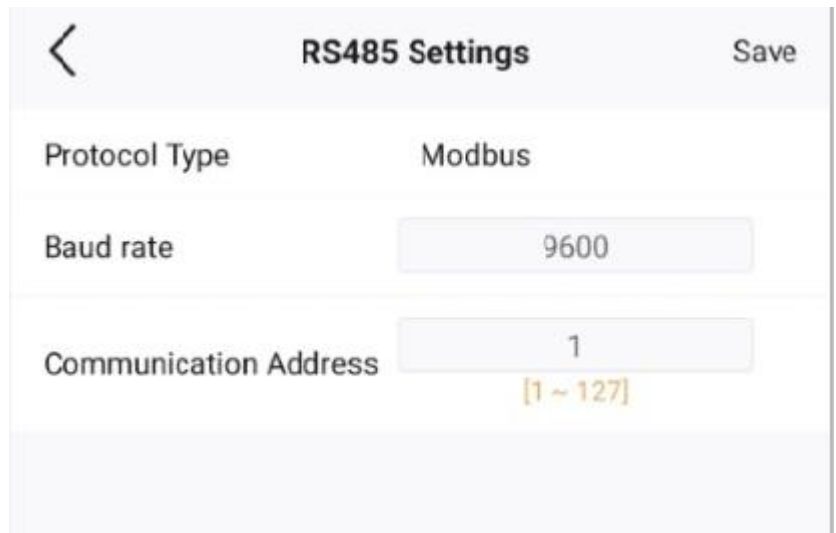
Using the eSAJ Home app supplied by SAJ:



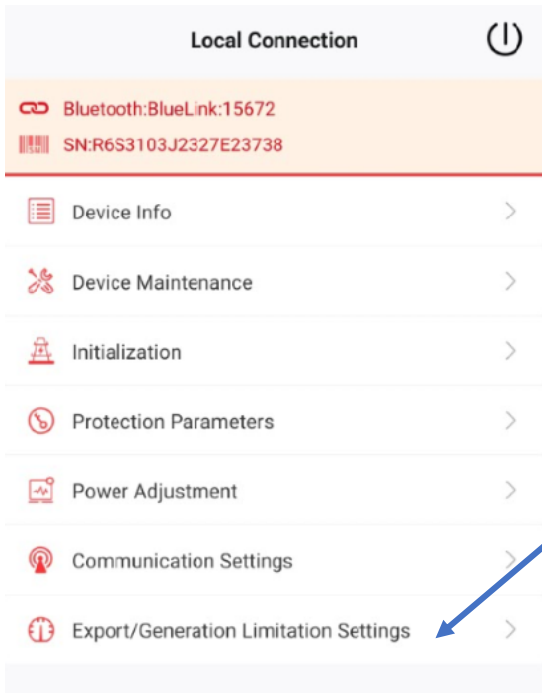
1. Choose the Communications settings

Ensure RS485 settings are as shown.

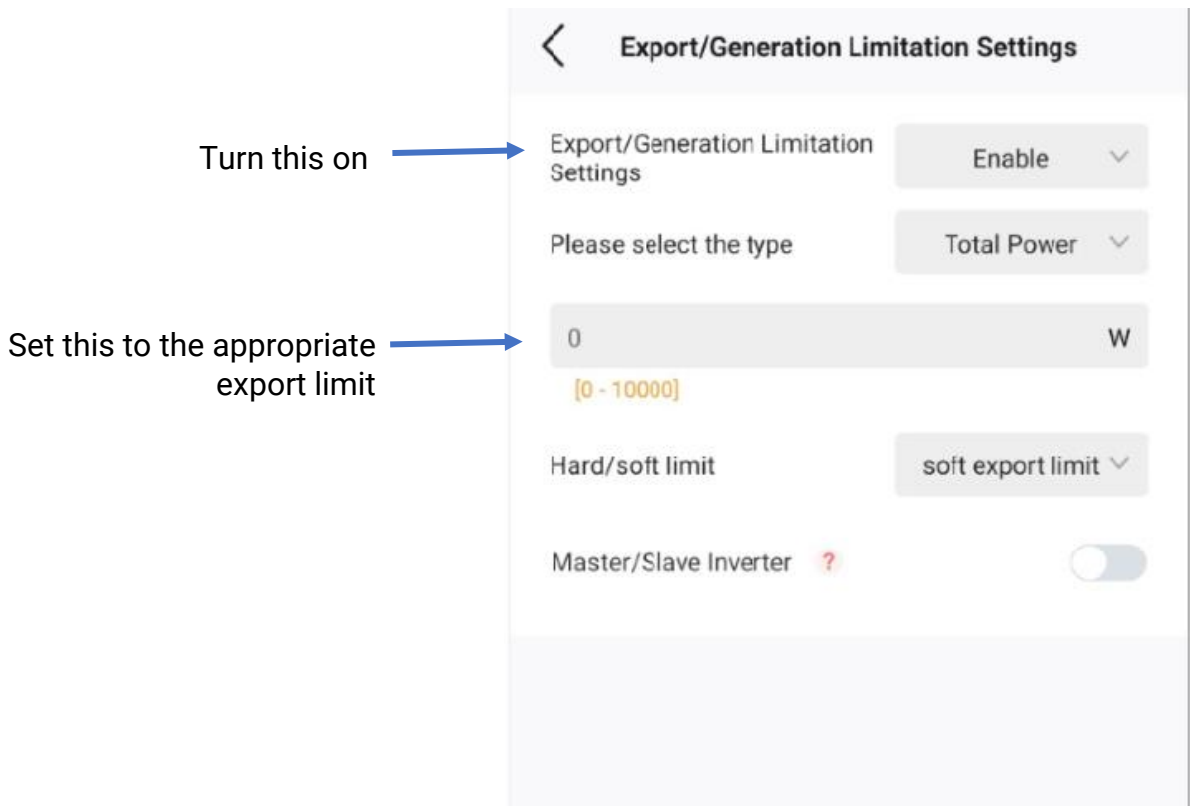
Note each time you come into this window the values default to 115200, that's ok. As long as you have set it to 9600 and saved it once.



Inverter Setup



2. Choose the Export/Generation Limitation settings



SOLAR RELAY Setup

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

Modbus Configuration

Emulated Meter
SAJ R5/R6

Cluster Export Limit
0

Modbus Device ID
1

Modbus Baud Rate
9600

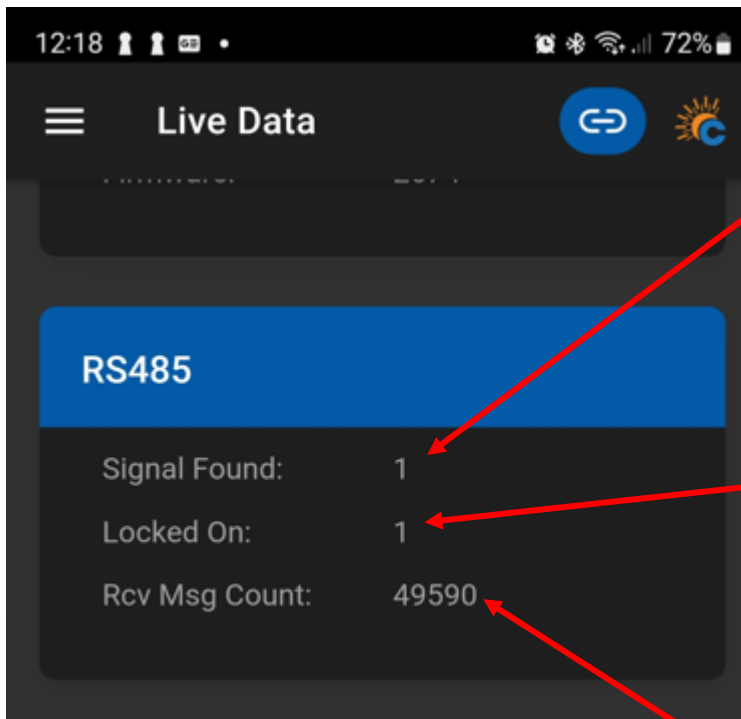
Modbus Stopbits
1

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**



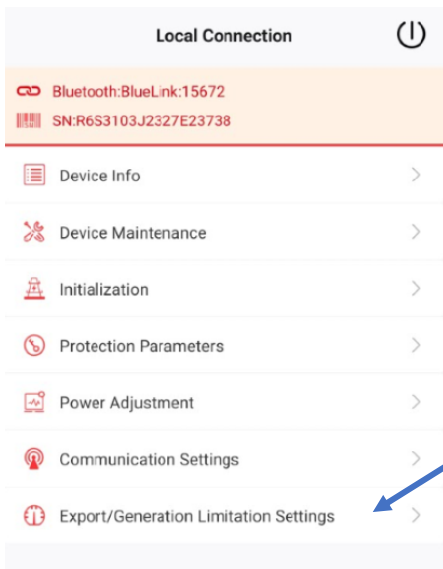
NO NATIVE MONITORING

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.



Choose the Export/Generation Limitation settings

Turn this on

Export/Generation Limitation Settings

Enable

Set this to ZERO

0

W

[0 - 10000]

Hard/soft limit

soft export limit

Master/Slave Inverter ?



SUNSPEC Configuration

SAJ 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

DYNAMIC / FLEXIBLE EXPORT CONTROL