SOLAR RELAY

INVERTER CONTROL
with SAJ

Models:
R5-x.xK-S2-15

CATCH Power
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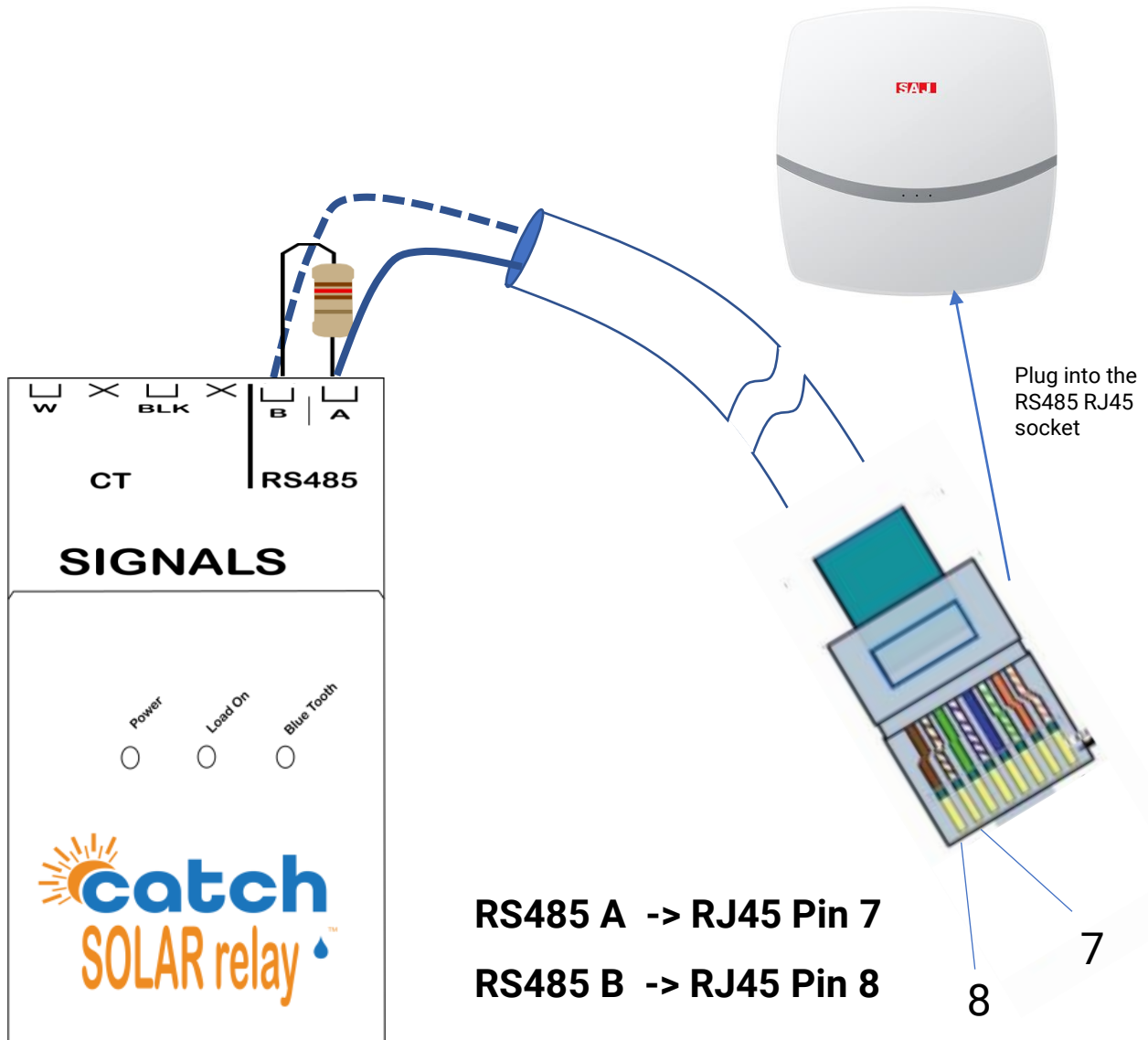E: sales@catchpower.com.au

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.
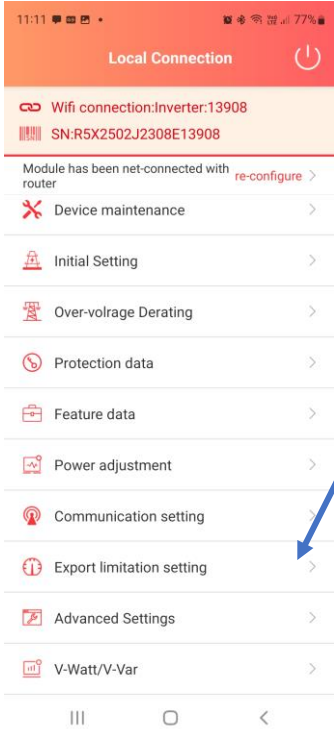
SAJ

Plug into the RS485 RJ45 socket

W   BLK   B   A

CT   RS485

SIGNALS

Power   Load On   Blue Tooth

catch SOLAR relay

RS485 A -> RJ45 Pin 7

RS485 B -> RJ45 Pin 8

7

8

Inverter Setup

Using the eSolar O&M app supplied by SAJ:

eSolar O&M

1. Choose the Export Limitation Menu option

Turn this on →

Set this to the appropriate export limit →

Run in master mode →

SOLAR RELAY Setup

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

Modbus Configuration —

Emulated Meter

SAJ R5-XX-S2-15 ▾

Cluster Export Limit

0

Modbus Device ID

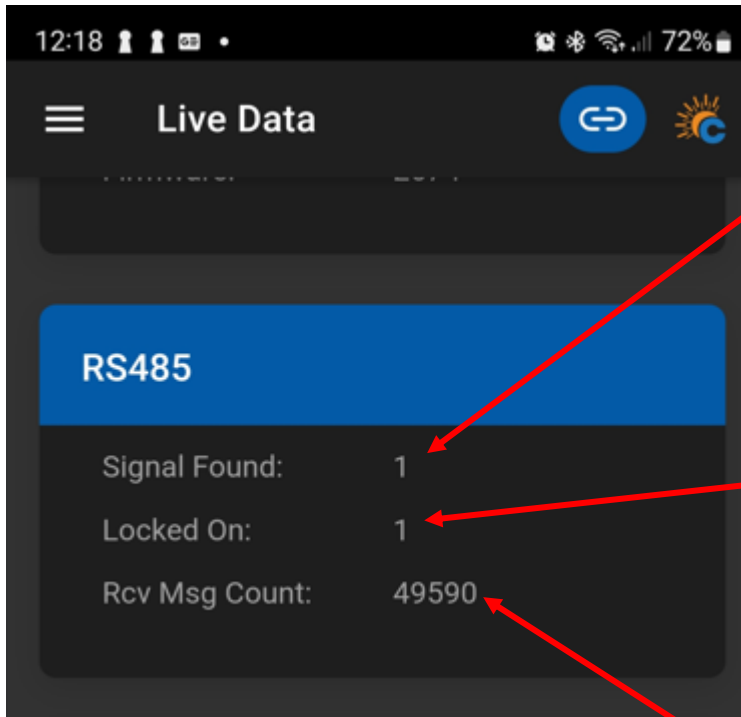1

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.

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

CatchPower™

RTU Control
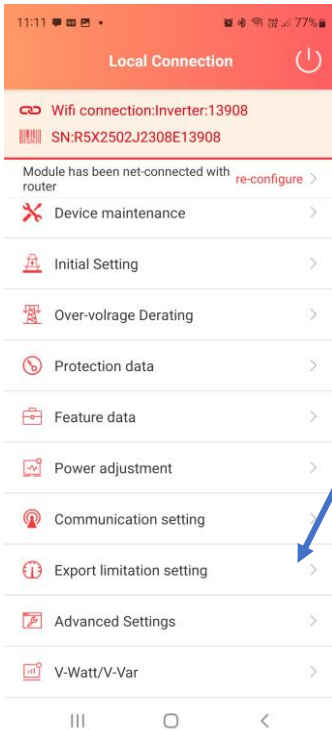## DYNAMIC / FLEXIBLE Export Control

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☝ **NO NATIVE MONITORING**
If you choose to use RTU Control for this inverter, the inverter monitoring platform will not work
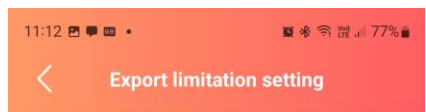
🔋 **NO BATTERIES**
RTU Control cannot be used on Hybrid inverters that have a battery connected.

Export limit the inverter to ZERO

1. Choose the Export Limitation Menu option

Turn this on → Export limitation

Set this to the appropriate export limit

Run in master mode → Master/Slave inverter

SUNSPEC Configuration

SAJ Does not support SUNSPEC over modbusTCP

DYNAMIC / FLEXIBLE EXPORT CONTROL

DYNAMIC / FLEXIBLE EXPORT CONTROL

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