SOLAR RELAY

INVERTER CONTROL
with SAJ

Models:
H2-x.xK-S2

Wiring Instructions

Ensure the data cable is rated for the voltages it will be in close proximity to.
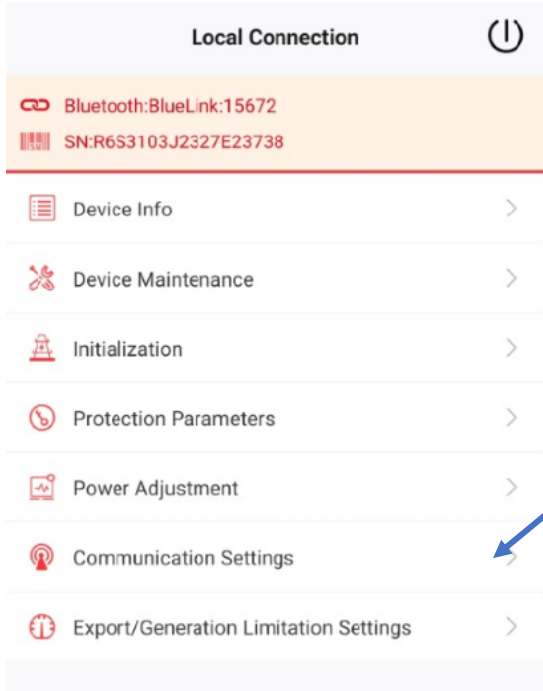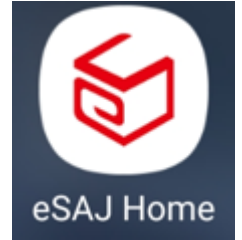A 120 Ohm terminating resistor may be required at the CATCH Relay terminals as shown in the diagram below if the cable run is longer than 10m.

RS485 A -> RJ45 Pin 7

RS485 B -> RJ45 Pin 8

SIGNALS

CATCH SOLAR relay™

Plug into the
EMS/METER
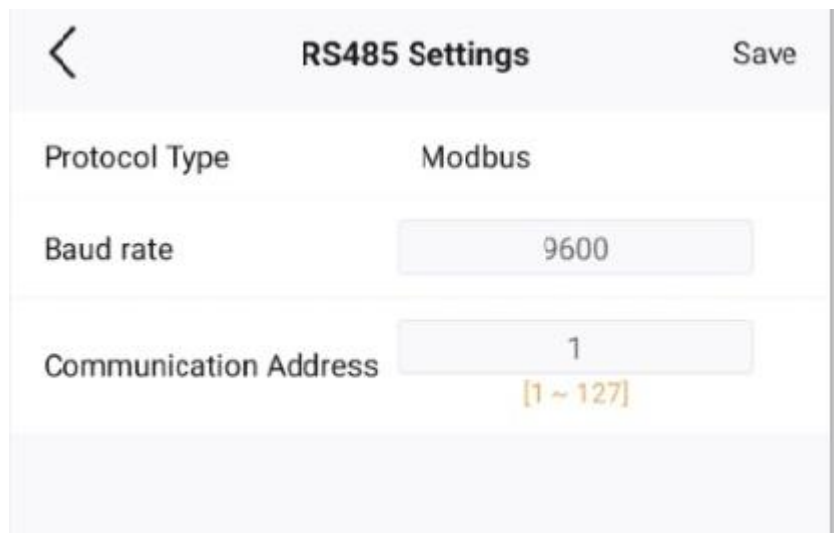socket
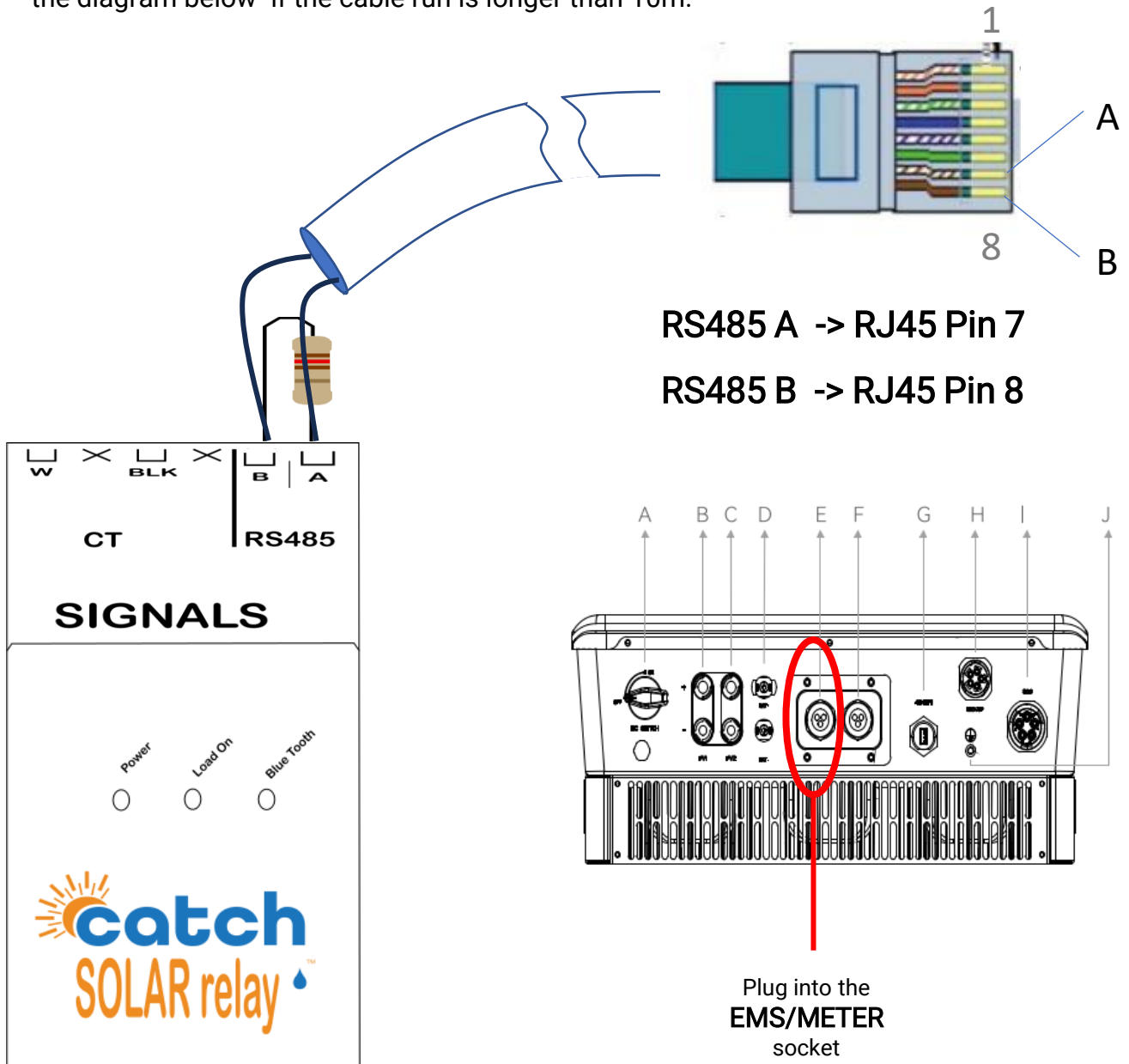
Inverter Setup

Using the eSAJ Home app supplied by SAJ:
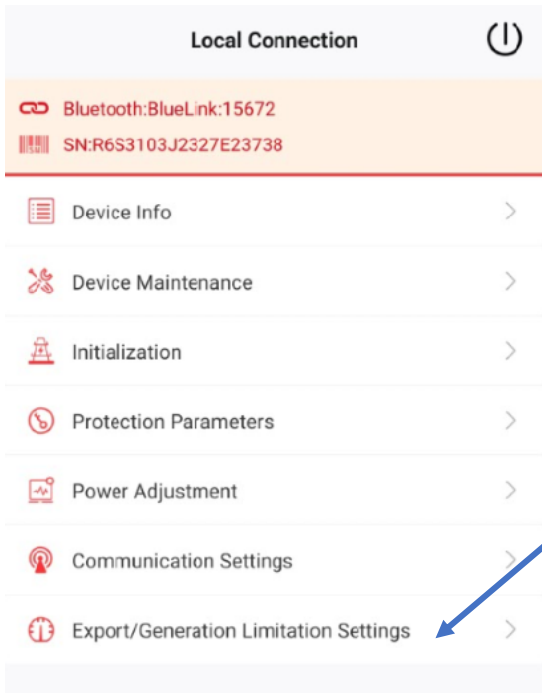

eSAJ Home

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

Local Connection

Bluetooth:BlueLink:15672
SN:R6S3103J2327E23738

Device Info

Device Maintenance

Initialization

Protection Parameters

Power Adjustment

Communication Settings

Export/Generation Limitation Settings

2. Choose the Export/Generation Limitation settings

Export/Generation Limitation Settings

Turn this on →

Export/Generation Limitation Settings — Enable

Please select the type — Total Power

0 W

[0 - 10000]

Set this to the appropriate export limit →

Hard/soft limit — soft export limit

Master/Slave Inverter ?

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/H2

Cluster Export Limit

0

Modbus Device ID
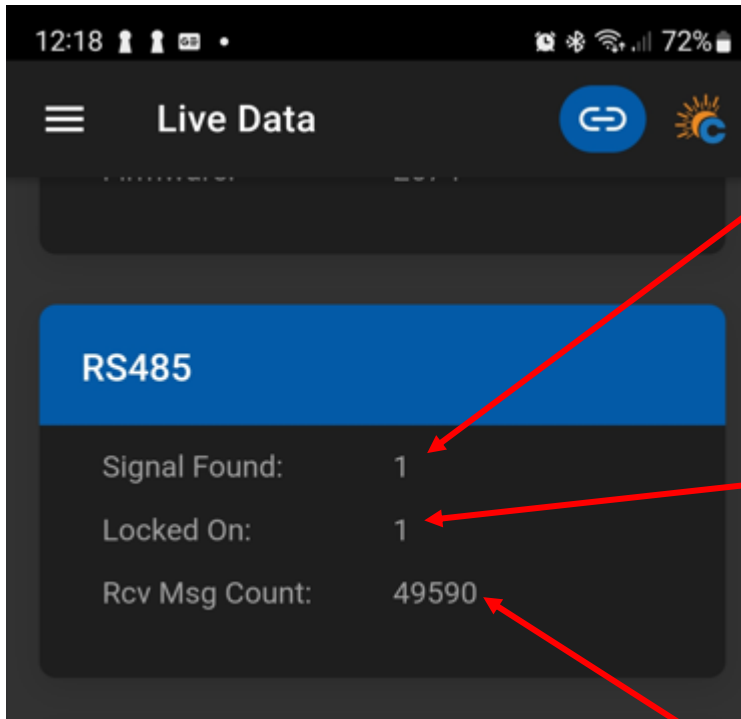
1

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.

On the front panel of the inverter, the communications indicator tells you if the inverter and meter are talking

Communication	Solid	Both BMS and meter communication are good
	On 1s, off 1s	Meter communication is good, BMS communication is lost
	On 1s, off 3s	Meter communication is lost, BMS communication is good
	Off	Both meter and BMS communication are lost

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

RTU Control
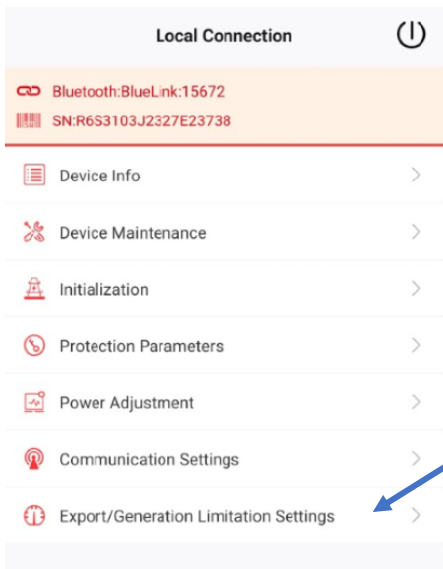## DYNAMIC / FLEXIBLE Export Control

NO NATIVE MONITORING
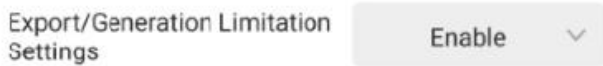If you choose to use RTU Control for this inverter, the inverter monitoring platform will not work

NO BATTERIES
RTU Control cannot be used on Hybrid inverters that have a battery connected.
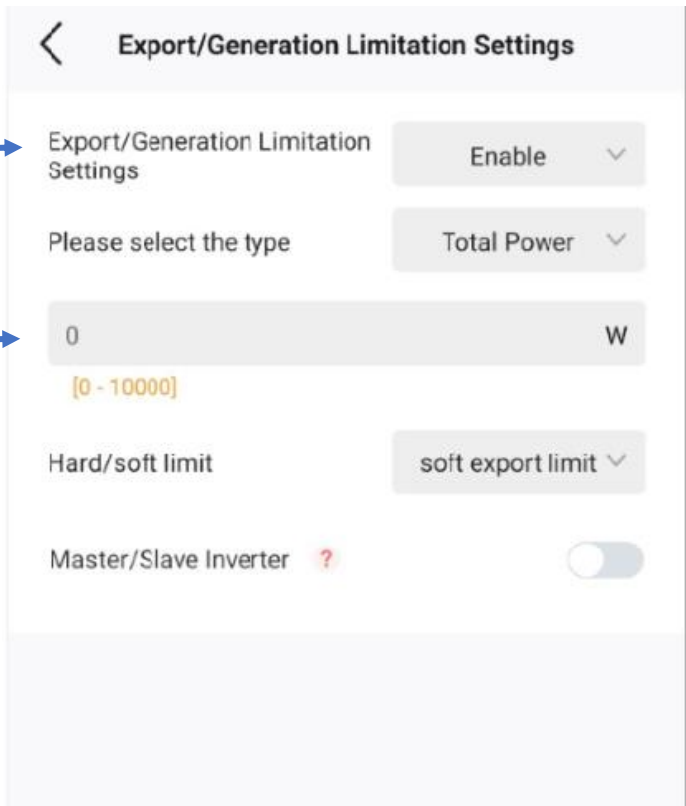

Local Connection

Bluetooth:BlueLink:15672
SN:R6S3103J2327E23738

- Device Info
- Device Maintenance
- Initialization
- Protection Parameters
- Power Adjustment
- Communication Settings
- Export/Generation Limitation Settings

Choose the Export/Generation Limitation settings

Export/Generation Limitation Settings

Export/Generation Limitation Settings — **Enable**

← Turn this on

Please select the type — **Total Power**

`0` W

`[0 - 10000]`

← Set this to ZERO

Hard/soft limit — **soft export limit**

Master/Slave Inverter ?

SUNSPEC Configuration

Sunspec Support requires the inverters have firmware specific to Australia. Contact SAJ support to confirm the firmware supports sunspec model 704 – AC Control

All SAJ inverters support a limited sunspec. When you run a sunspec scan it will be found, however without the AC Control features the inverter is not controllable.

There is no specific sunspec configuration needed.

Simply follow the sunspec configuration process in the CATCH Power Configurator App.

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