SOLAR RELAY

INVERTER CONTROL
with
SOLPLANET & JINKO

Models:
ASWXXXX-S
ASWXXXXH-S2
JKS-XHLVS-GI

CATCH Power
A trademark of Project H Pty Ltd
180 Dumaresq Street
Glen Innes
NSW   2370
Australia
Ph: **+64** 2 5700 5717
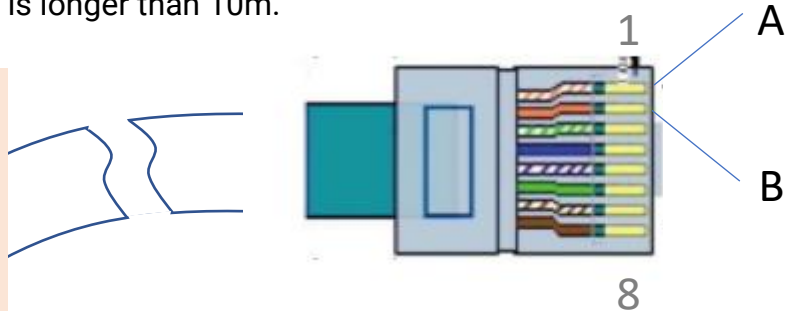W: www.Catchpower.com.au
E: sales@catchpower.com.au

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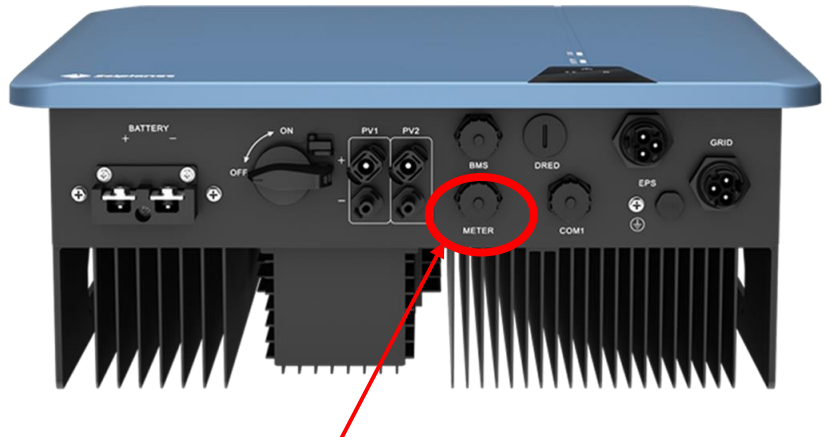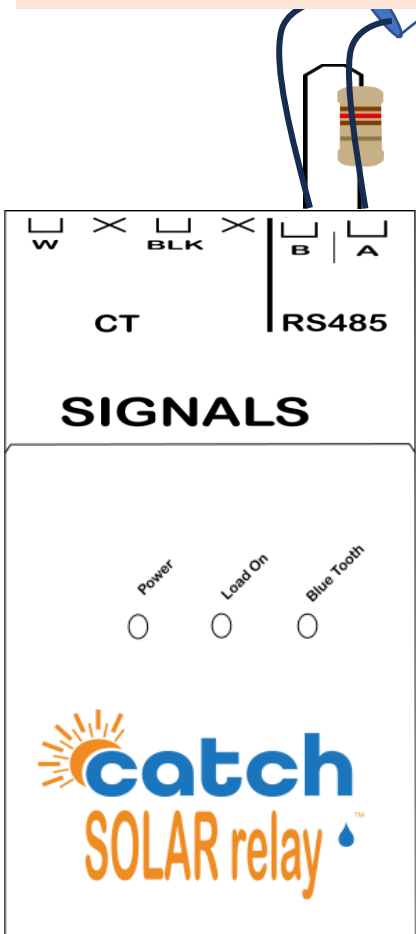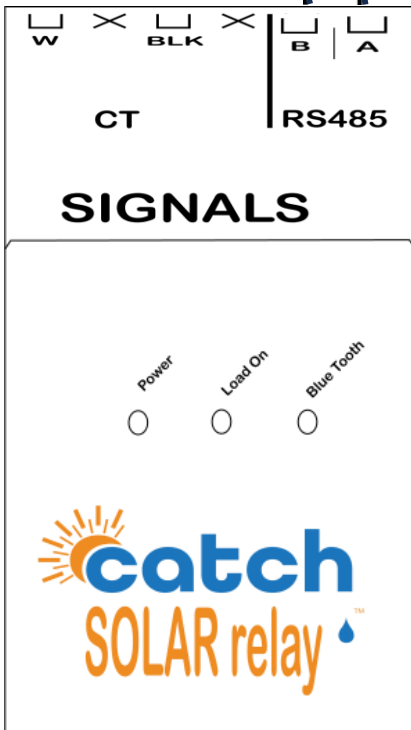
Wiring Instructions

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.

1
A

B

8

**ASWXXXXH-G2
JKS-XHLVS-GI
(HYBRID)**

RS485 A -> RJ45 Pin 1

RS485 B -> RJ45 Pin 2

W   BLK   B | A

CT   RS485

SIGNALS

Power   Load On   Blue Tooth

catch SOLAR relay™

BATTERY   ON   PV1 PV2   BMS   DRED   GRID

OFF   EPS

                METER   COM1

RS485 cable plugs into here

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.

ASWXXXX-S

1

A

B

8

RS485 A -> RJ45 Pin 1

RS485 B -> RJ45 Pin 2

W   BLK   B | A

CT   RS485

SIGNALS

Power   Load On   Blue Tooth

O   O   O

catch SOLAR relay
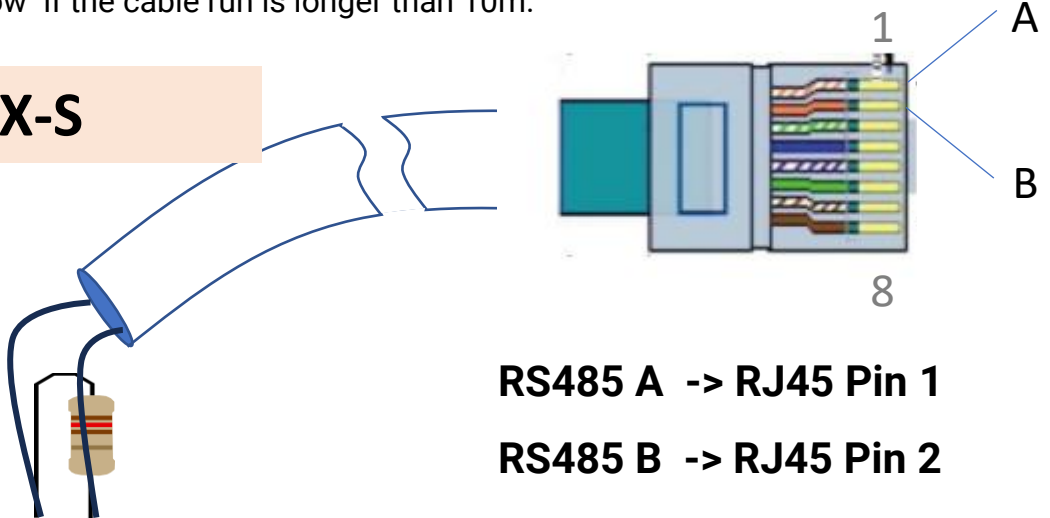
RS485 cable plugs into here
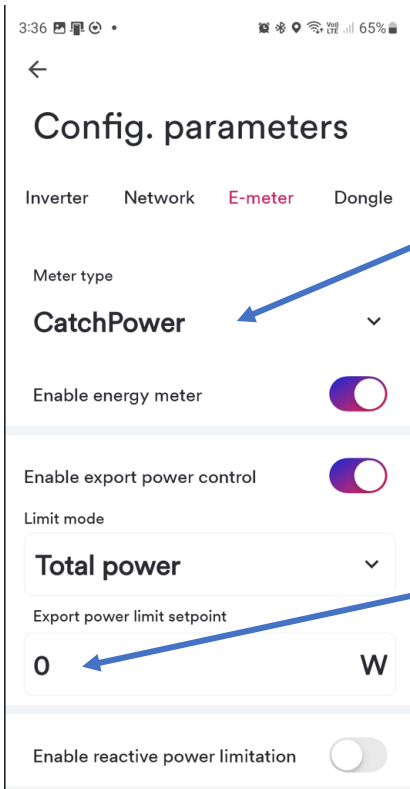
Inverter Setup

Using the Solplanet App setup the inverter as shown below:

| IMPORTANT | | The inverter needs to be upgrade with Australia specific firmware. Contact SOLPLANET support to get the inverter firmware upgraded first…

Tell them you are using CATCH Solar Relay |
|---|---|---|

1. Choose CATCH Power as the energy meter.

In order to change the energy meter you need to disable the meter first. Make the change then re-enable.

When CATCH Power is chosen as the energy meter this value is ignored.

SOLAR RELAY Setup

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

SOLAR RELAY Setup

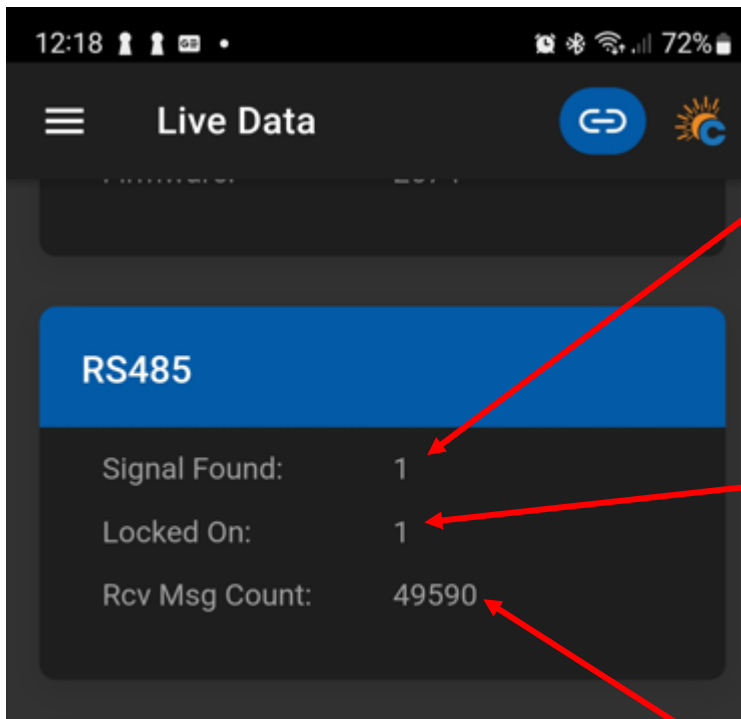Specify the site export limit via the static exports configuration as shown below.
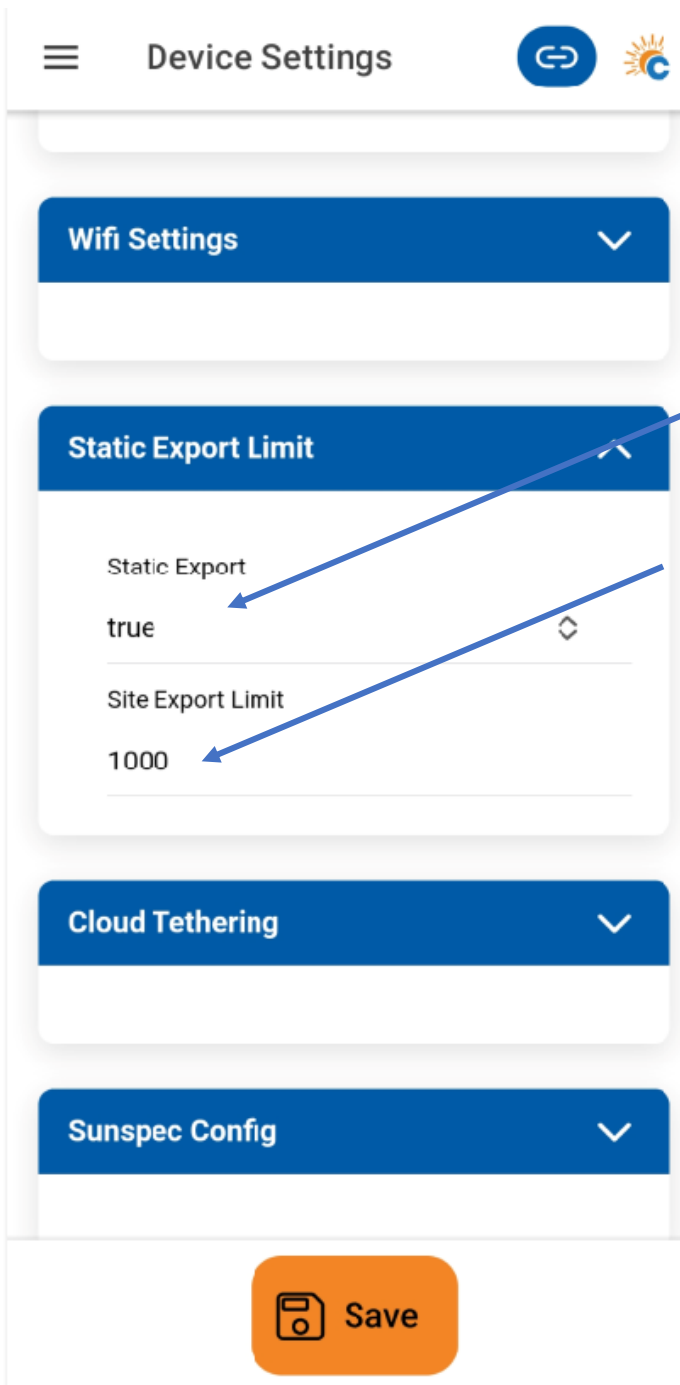
1. Set this to true

2. Set the site export limit

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

RTU Control

DYNAMIC / FLEXIBLE Export Control

- There is no special setup needed for RTU Control.

- The Native inverter monitoring platform is supported.

- Batteries are fully supported

SUNSPEC Configuration

SOLPLANET Does not support
SUNSPEC over modbusTCP

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