



SOLAR RELAY

INVERTER CONTROL with

**SOLIS 1P5K-4G (With Metering Interface)
SOLIS S5 SERIES**



CATCH Power
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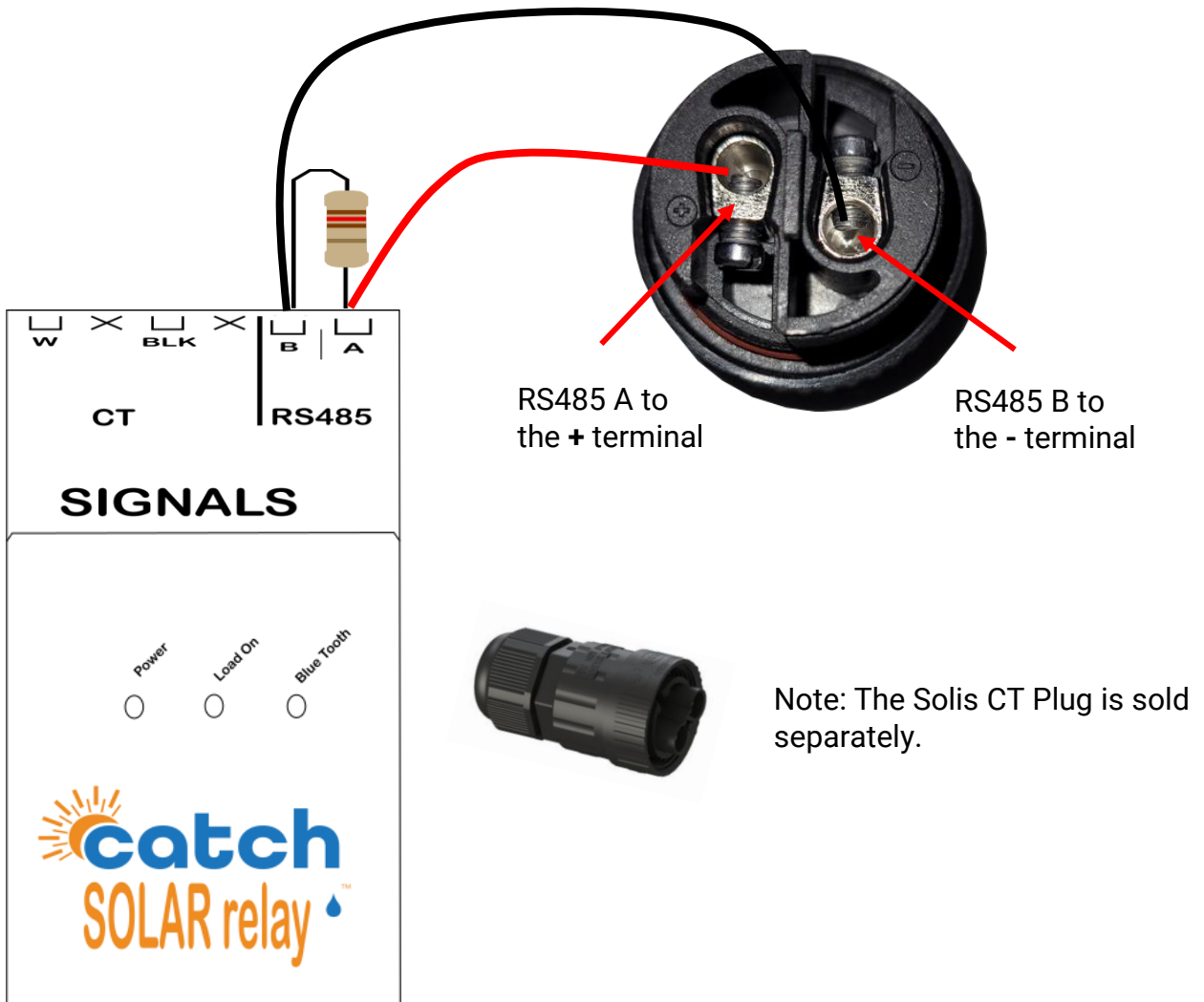
IMPORTANT



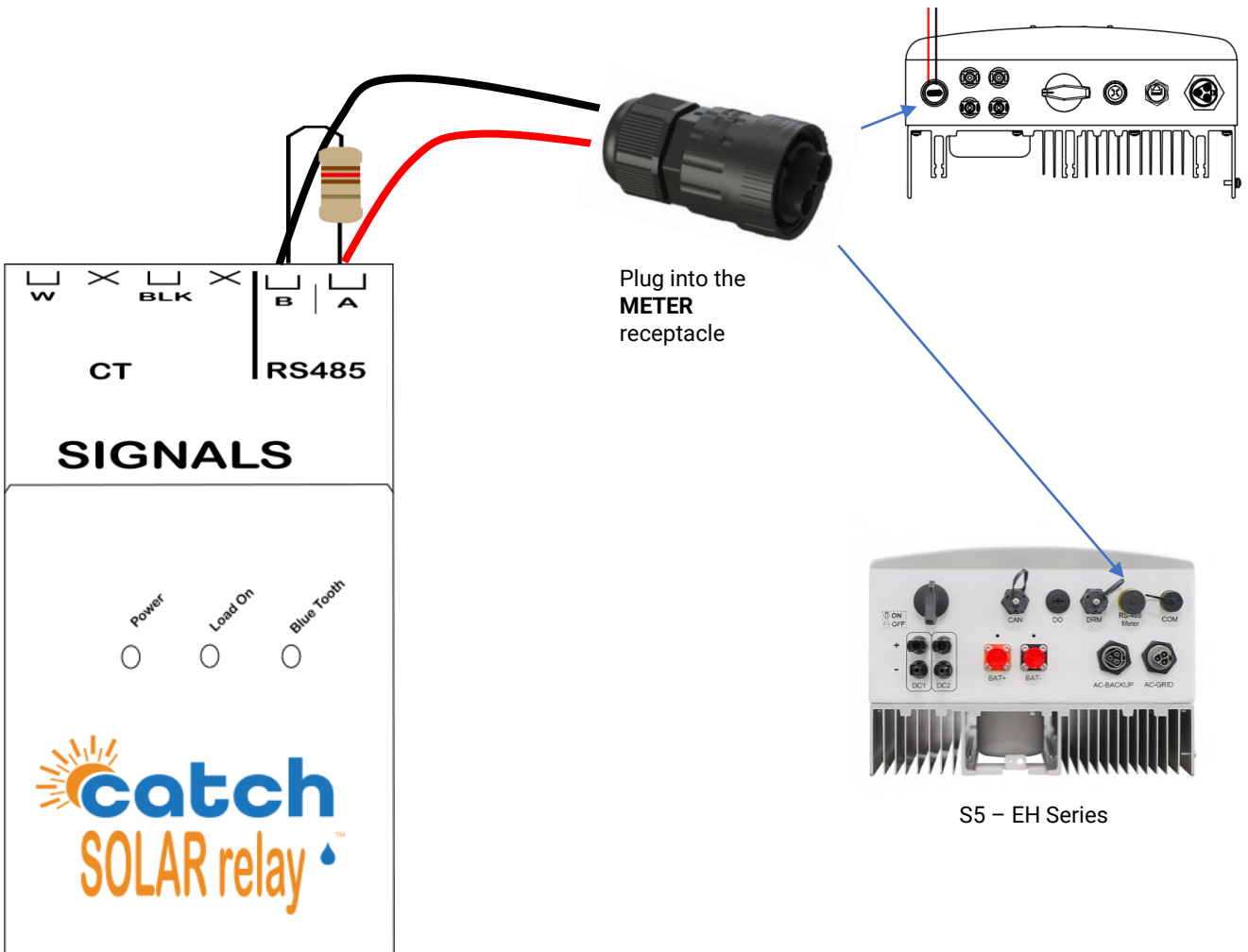
This guide discusses the specific wiring and configuration need to implement inverter control. Ensure the installation guide for both products is also followed.

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.

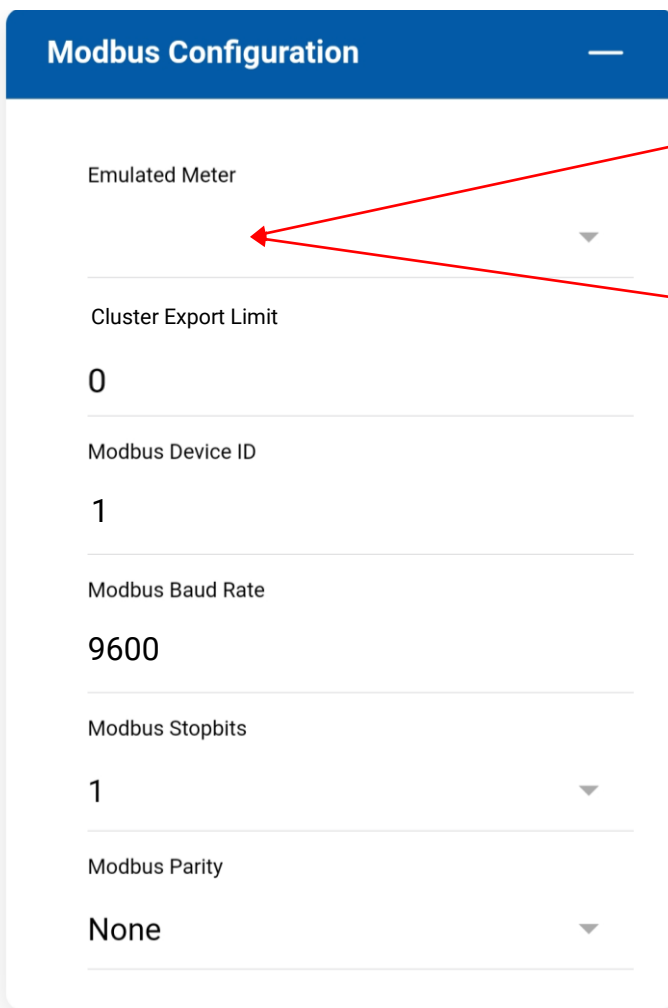


Wiring Instructions - Continued



SOLAR RELAY Setup

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



The image shows a mobile application interface for 'Modbus Configuration'. The form has a blue header with the title 'Modbus Configuration' and a minus sign on the right. Below the header, there are several input fields, each with a label and a value. The 'Emulated Meter' field is a dropdown menu with a downward arrow on the right. The 'Cluster Export Limit' field is a text input with the value '0'. The 'Modbus Device ID' field is a text input with the value '1'. The 'Modbus Baud Rate' field is a text input with the value '9600'. The 'Modbus Stopbits' field is a dropdown menu with the value '1' and a downward arrow on the right. The 'Modbus Parity' field is a dropdown menu with the value 'None' and a downward arrow on the right.

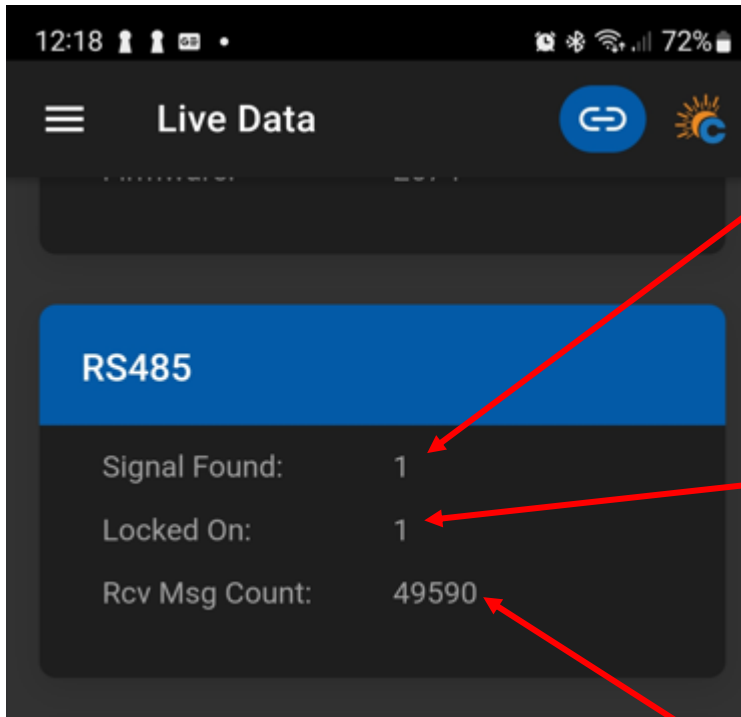
Model: 1P5K-4G
Choose: **Solis Acrel**

Model: S5 Series
Choose: **Solis S5 Series**

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.

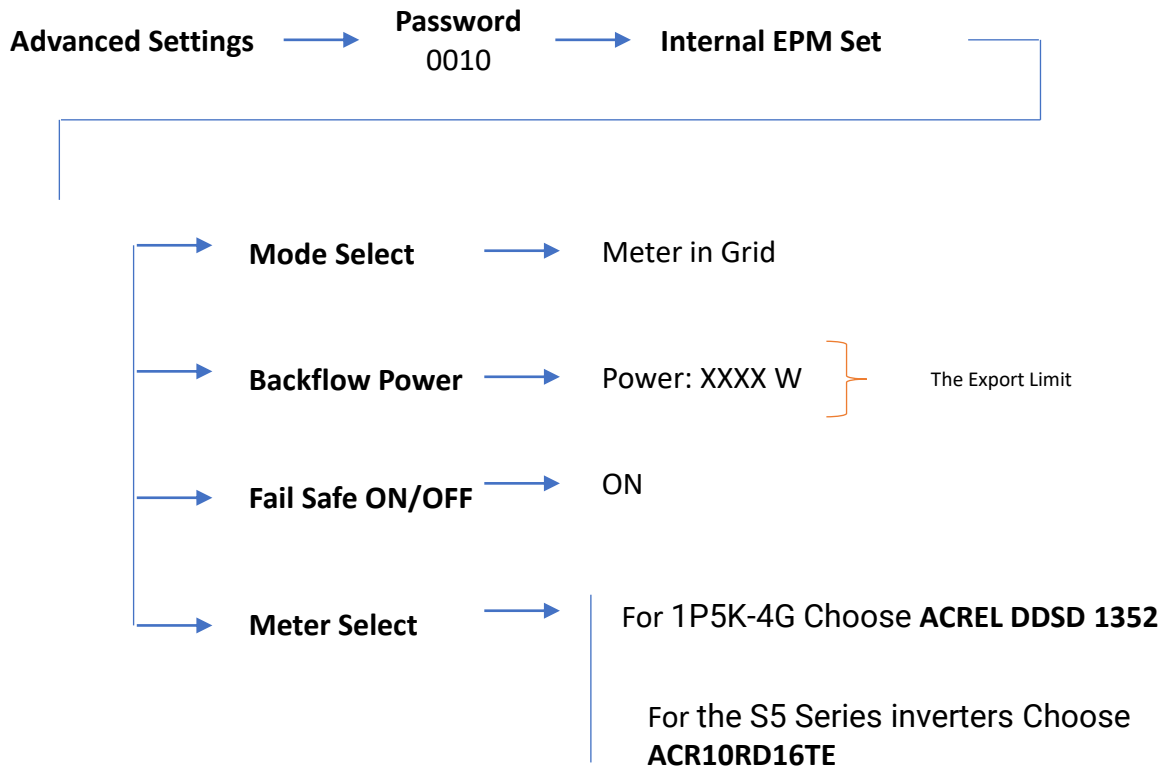
This indicates the inverter and the CATCH Relay are talking the same language.

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.

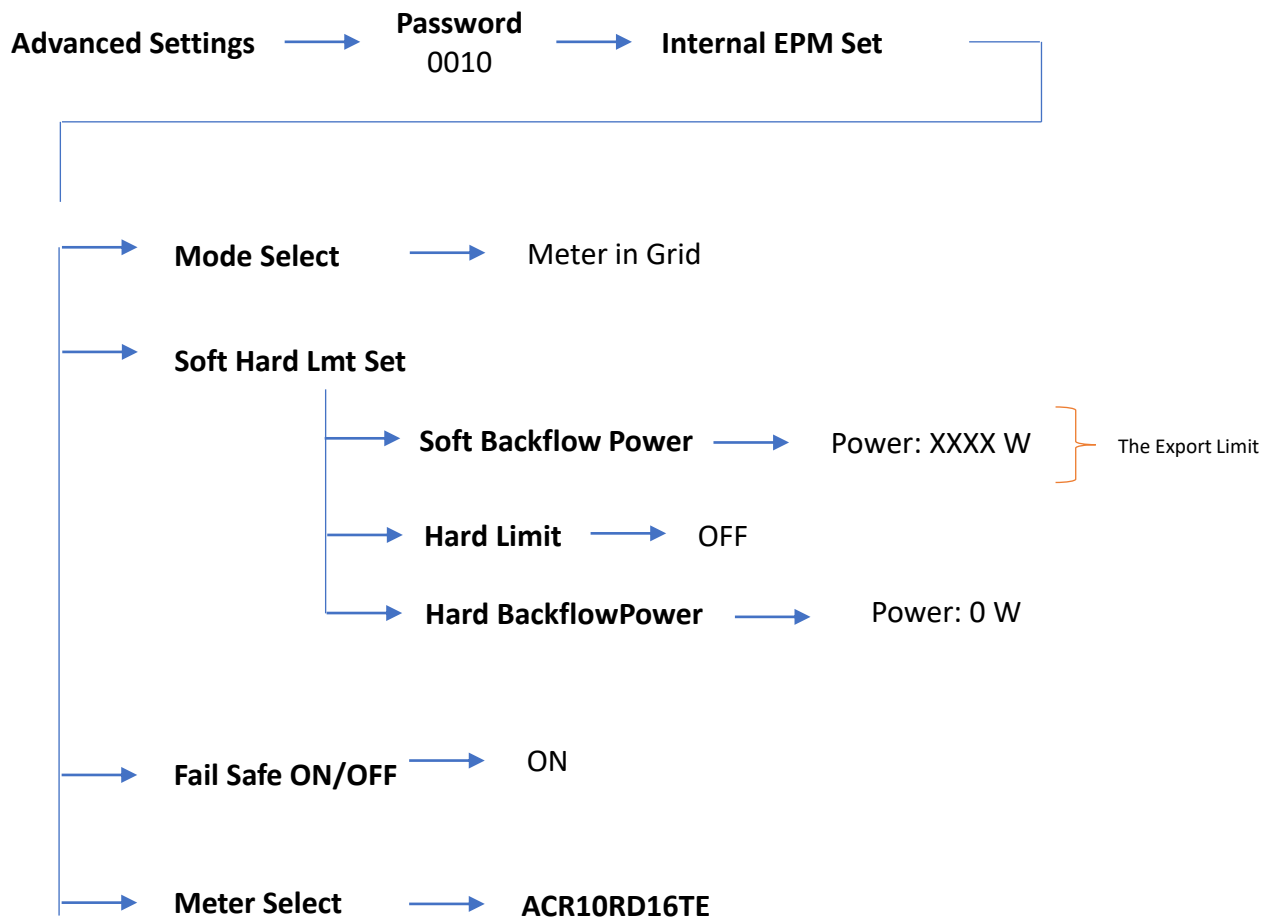
Inverter Setup - 1P5K-4G

The next step is to set the unit up for export control.



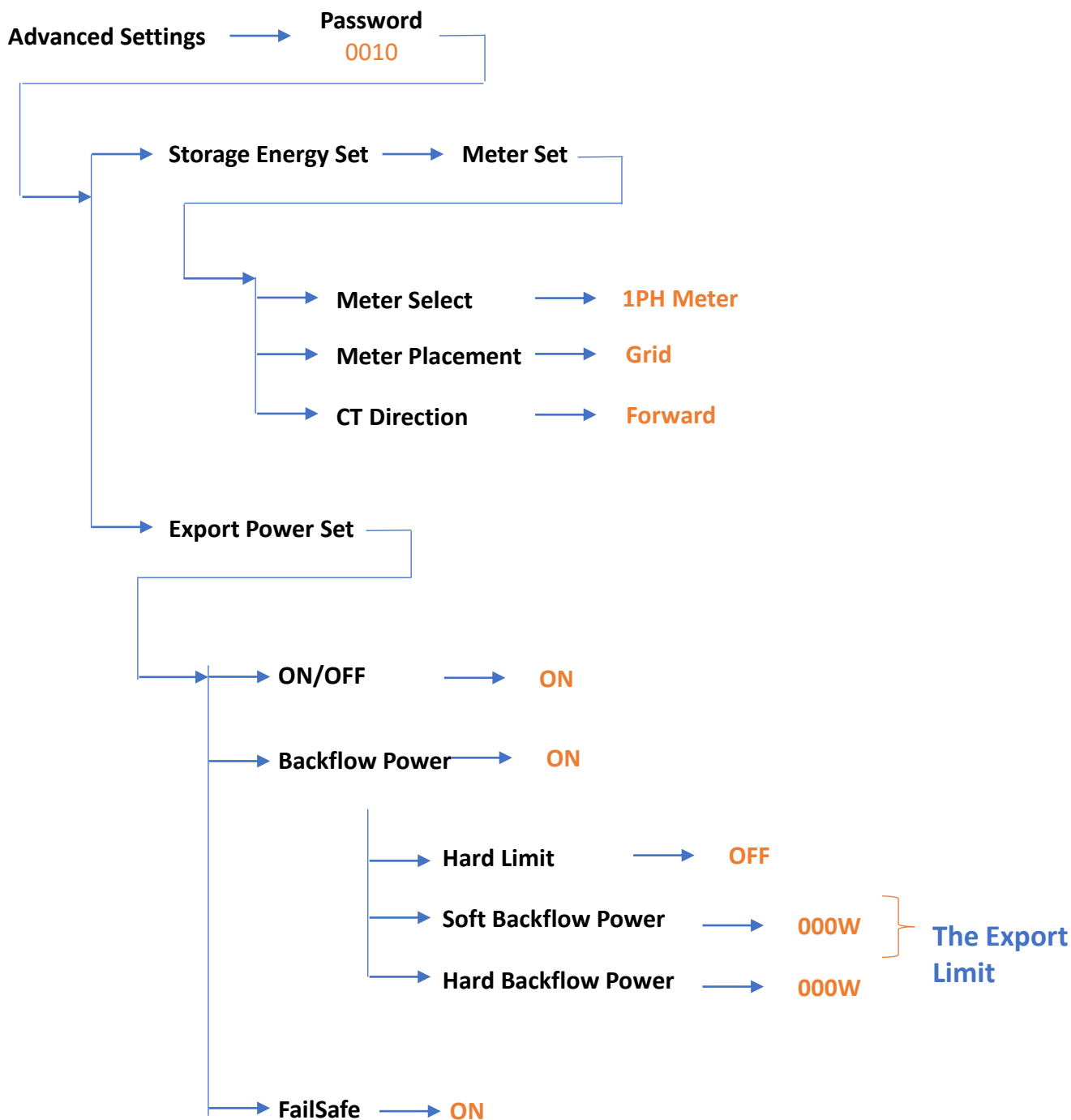
Inverter Setup – S5 Series (NON Hybrid)

The next step is to set the unit up for export control.



Inverter Setup – S5 EH Series (Hybrid)

The next step is to set the unit up for export control.



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



NO NATIVE MONITORING

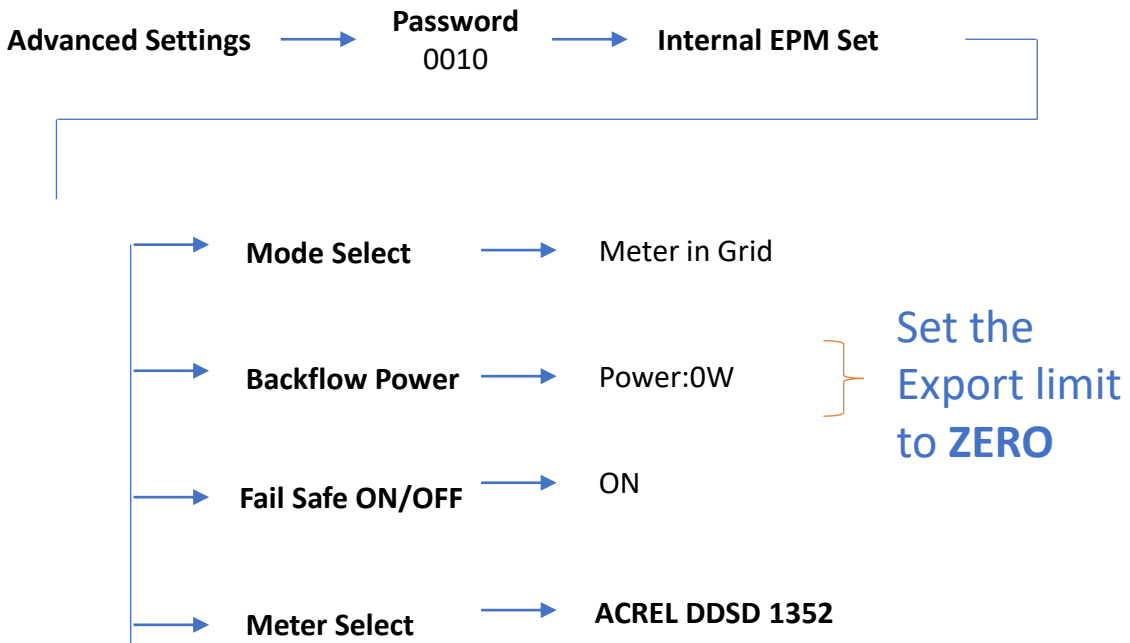
If you choose to use RTU Control for this inverter, the inverter monitoring platform will not work



NO BATTERIES

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

The inverter export limit needs to be set to ZERO





RTU Control – S5 Series

(Non Hybrid)

DYNAMIC / FLEXIBLE Export Control



NO NATIVE MONITORING

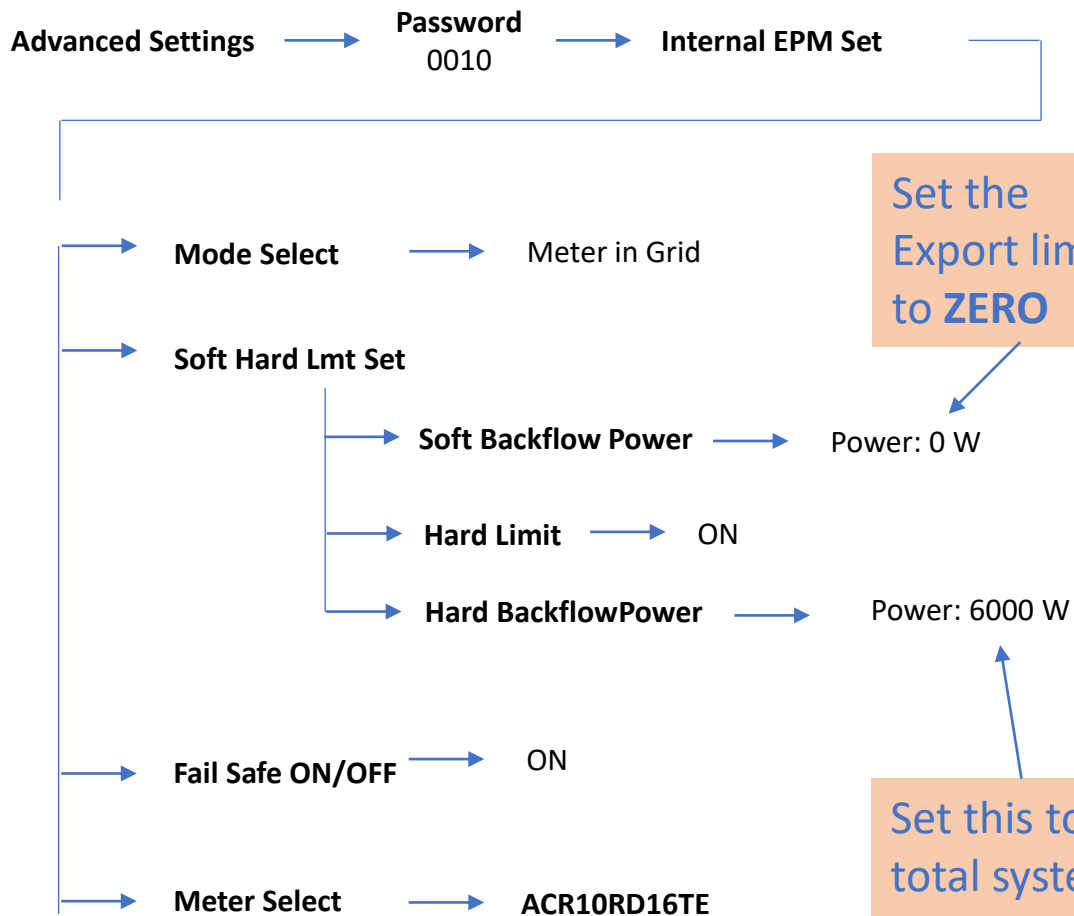
If you choose to use RTU Control for this inverter, the inverter monitoring platform will not work



NO BATTERIES

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

The inverter export limit needs to be set to ZERO



DYNAMIC / FLEXIBLE EXPORT CONTROL

DYNAMIC / FLEXIBLE EXPORT CONTROL



RTU Control – S5 EH Series (Hybrid)

DYNAMIC / FLEXIBLE Export Control



NO NATIVE MONITORING

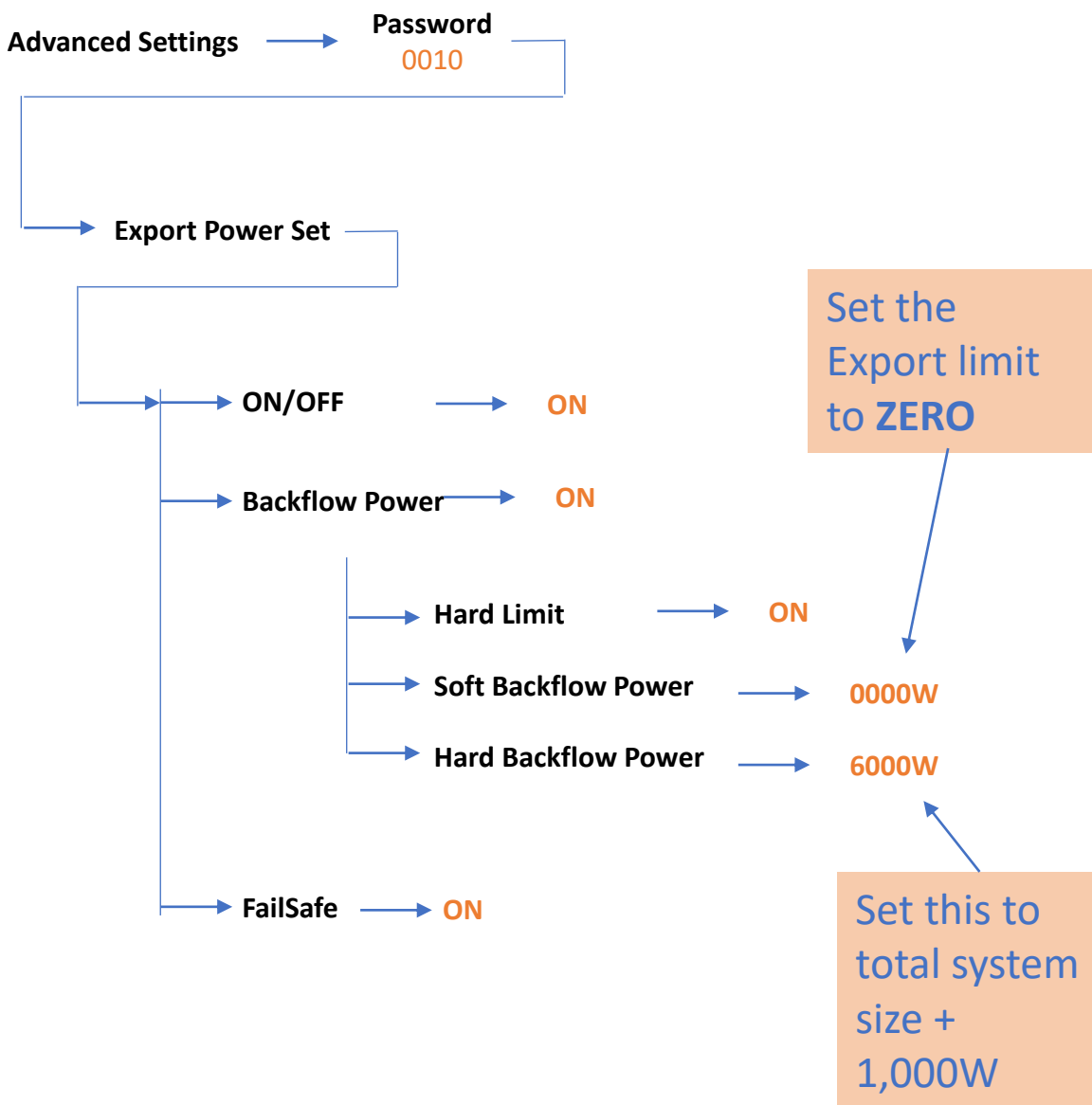
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DYNAMIC / FLEXIBLE EXPORT CONTROL

DYNAMIC / FLEXIBLE EXPORT CONTROL

SUNSPEC Configuration

SOLIS 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