



CONNECTION CABLES

And ACCESSORIES

WECO

PIN OUT FOR 4K4, 4K4 PRO and 5K3

4K4

4^{PRO}K4

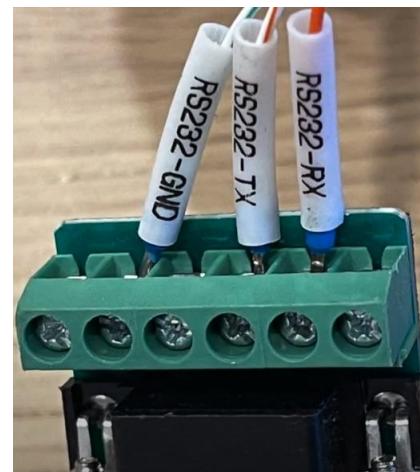
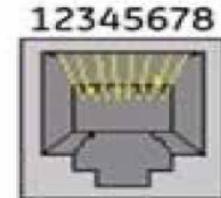
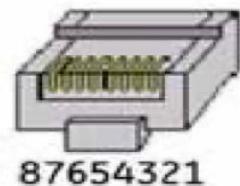
5K3

PC MONITOR 232 / USB PC CONNECTION

| Screw Terminal Side | Cable 232 / RJ45 |
|---------------------|------------------|
| PIN1 | - |
| PIN 2 T/R- | RX |
| PIN 3 RXD+ | TX |
| PIN 4 | - |
| PIN 5 | GND |
| PIN 6 | - |

RJ 45 TO WIRE - PIN DEFINITION-

PIN 01 = TX
PIN 02 = RX
PIN 03 = GND
PIN 04 = none
PIN 05 = none
PIN 06 = none
PIN 07 = none
PIN 08 = none





WeCo Monitor, PROTOCOL SETTING PAGE

WECO-FES-Tools V1.30-Beta12_20210323

Overview Module Debug Parallel/Overview Balance Setting DO_Setting Production setting Production Test

| Cell Information | | | | | |
|----------------------|---|---|---|---|---|
| Cell Vol(V) | 1 | 2 | 3 | 4 | 5 |
| ► 1-5 | 2 | | | | |
| 6-10 | | | | | |
| 11-15 | | | | | |
| 16-20 | | | | | |
| Tmp /($^{\circ}$ C) | 1 | 2 | 3 | | |
| 1-3 | | | | | |

Battery Information

| | |
|------------------------------|------------------|
| | Total Voltage: 0 |
| DI1: | 0 |
| DI2: | 0 |
| DO1: | 0 |
| DO2: | 0 |
| Precharge Contactor: | 0 |
| Main Contactor: | 0 |
| Current: 0 | |
| SOC: 0% | |
| Capacity: 0 | |
| Running Time: 0 | |
| Charge-Discharge State: --- | |
| Cell Voltage Difference: --- | |
| Temperature Difference: --- | |
| Battery Cycle: --- | |
| Discharge Ah: --- | |
| Charge Energy: --- | |
| Discharge Energy: --- | |
| Charge Time: --- | |
| Discharge Time: --- | |
| Standby Time: --- | |

Battery State

| | |
|---------------------------------|-----|
| Cell Voltage High Warning: | --- |
| Cell Voltage High Fault: | --- |
| Cell Voltage Low Warning: | --- |
| Cell Voltage Low Fault: | --- |
| Charge TEMP High Warning: | --- |
| Charge TEMP High Fault: | --- |
| Discharge TEMP High Warning: | --- |
| Discharge TEMP High Fault: | --- |
| Charge TEMP Low Warning: | --- |
| Charge TEMP Low Fault: | --- |
| Discharge TEMP Low Warning: | --- |
| Discharge TEMP Low Fault: | --- |
| Discharge Current High Warning: | --- |
| Discharge Current High Fault: | --- |
| Charge Current High Fault: | --- |
| Battery Voltage High Fault: | --- |
| Battery Voltage Low Fault: | --- |
| Parallel Total Cur: --- | |
| Parallel SOC: --- | |

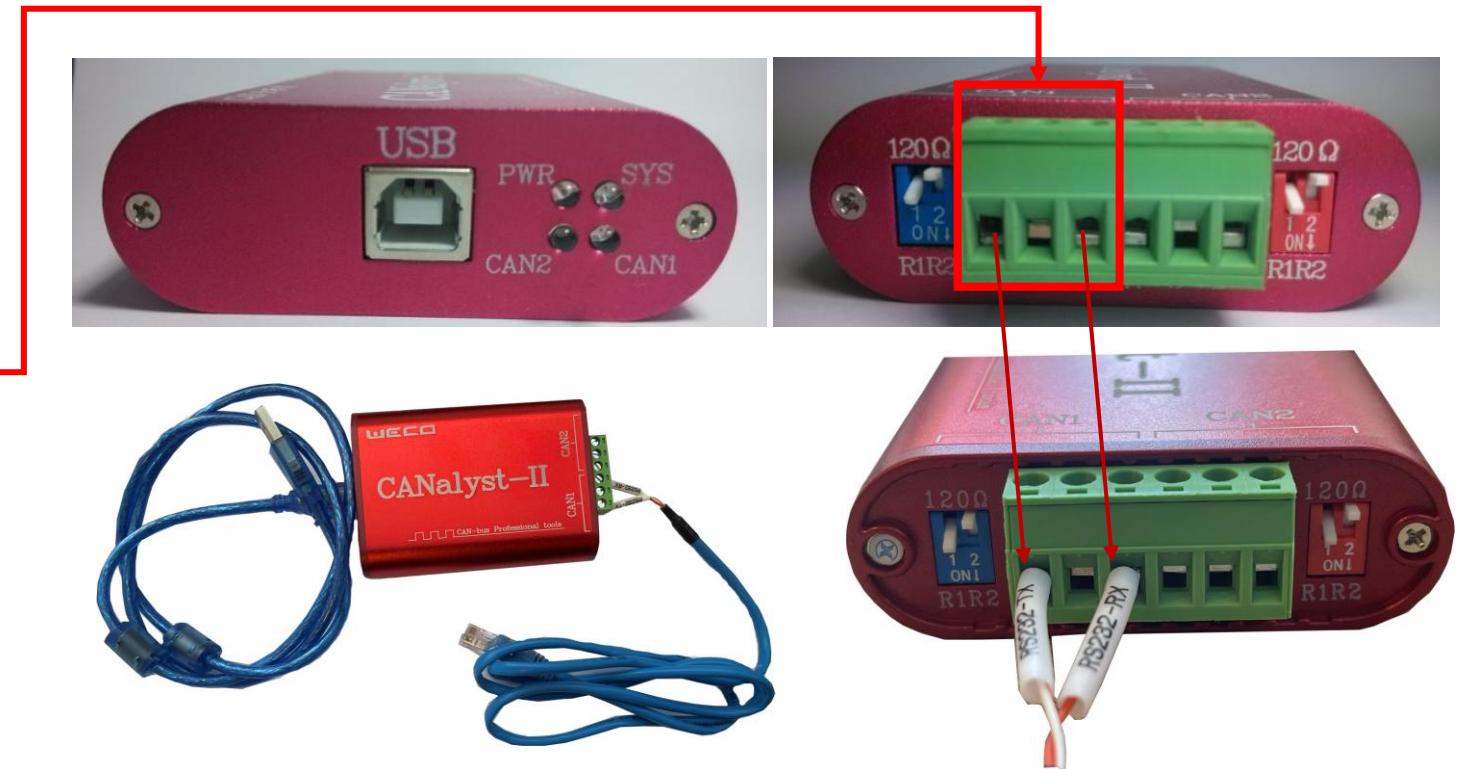
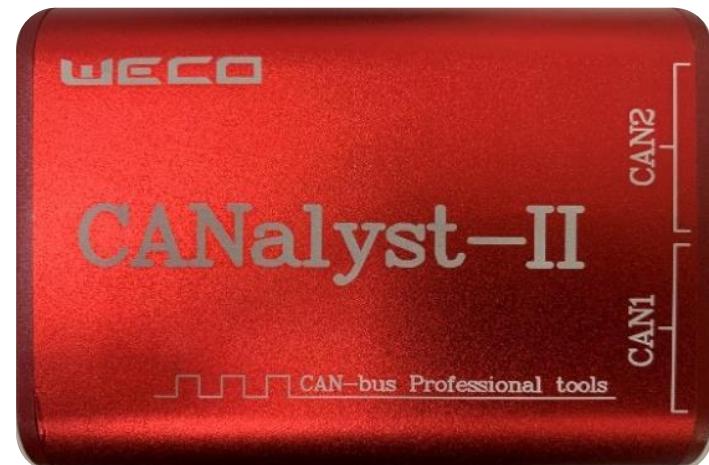
Other State

| | |
|------------------------------|-----|
| Cell Voltage Diff Warning: | --- |
| Cell Voltage Diff Fault: | --- |
| SOC Low Warning: | --- |
| Serious Ov_volt warning: | --- |
| BMS Internal Fault: | --- |
| Pack Vol Imbalance: | --- |
| Voltage normal: | --- |
| Temperature normal: | --- |
| BMS normal reading: | --- |
| Conext Inverter Comm: | --- |
| BMS Send To Inverter: --- | |
| BMS set Max Volt: --- | |
| BMS set Min Volt: --- | |
| BMS set Max Charge A: --- | |
| BMS set Max Discharge A: --- | |
| BMS set Parallel Charge: --- | |
| BMS set Parallel Disch: --- | |
| Actual Voltage Reading: --- | |
| Actual Charging Current: --- | |
| Actual Dischar. Current: --- | |
| Actual C Rate sent: --- | |
| Restriction Imposed by: --- | |

Parameter

| |
|-------------------------|
| Battery Model: --- |
| Battery SN: --- |
| Address: --- |
| Battery Type: --- |
| Cell Number: --- |
| Inverter Protocol: --- |
| BMS Type: --- |
| BMS SN: --- |
| BMS Date: --- |
| Firmware Version: --- |
| PCB(BMS) Version: --- |
| Bootloader Version: --- |
| DO1_SOC1: --- |
| DO1_SOC2: --- |
| DO2_SOC1: --- |
| DO2_SOC2: --- |
| Inverter Protocol: |
| Set |
| SOC: 0% |

WeCo

CAN to USB WeCo Converter PIN DEFINITION

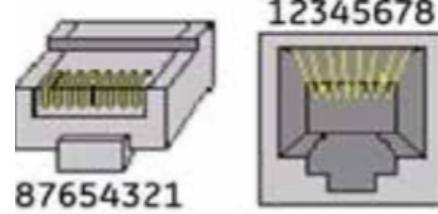


INVERTER PIN OUT

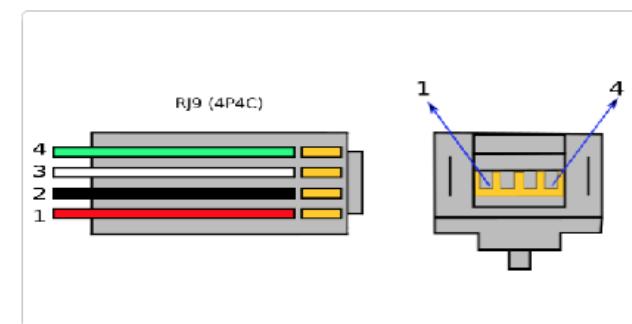
ZCS AZZURRO SINGLE PHASE SERIES

RJ 45 SIDE

PIN 01 =-----PIN 01 ---CAN H
PIN 02 =-----PIN 02 ---CAN L
PIN 03 =-----PIN 03 ---GND
PIN 04 TO 8= none

**RJ9 SIDE**

PIN 01 ---CAN H
PIN 02 ---CAN L
PIN 03 ---GND



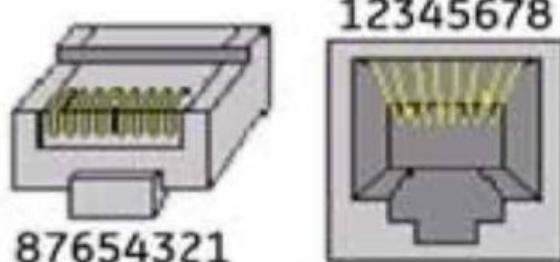
Inverter Protocol:

| | |
|----------|-----|
| WeCoCAN | Set |
| SOC: 70% | Set |

SMA SUNNY ISLAND SINGLE PHASE INVERTER

BATTERY SIDE

| Terminal | Inverter Side RJ45 | Battery Side RJ45 |
|----------|--------------------|-------------------|
| CAN L | 4 | PIN 2 |
| CAN H | 5 | PIN 1 |
| GND | - | PIN 3 |



Inverter Protocol:

SMACAN

SOC: 0%

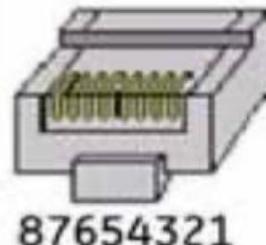
KEHUA SPH SINGLE PHASE INVERTER

BATTERY SIDE

PIN 01 =-----

PIN 02 =-----

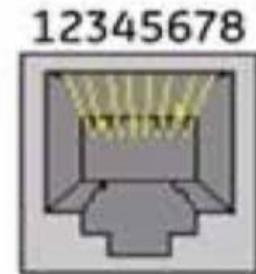
PIN 03 TO 8= **none**



INVERTER SIDE

PIN 01 ---CAN H

PIN 02 ---CAN L



Inverter Protocol:

KEHUACAN

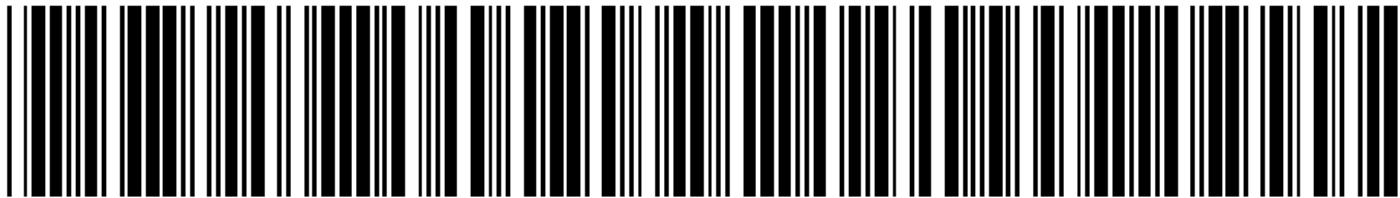
Set

SOC: 0%

Set

WECO

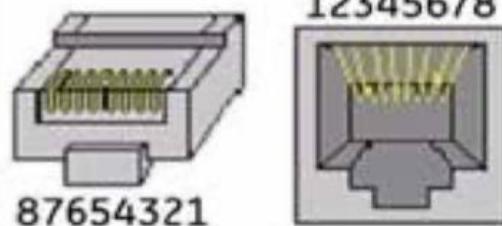
WEKO



BMS-RJ45-GROWA-SPH

BATTERY SIDE

PIN 01 =-----PIN 04 ---CAN H
PIN 02 =-----PIN 05 ---CAN L
PIN 03 =-----PIN 02 --- GND
PIN 06 TO 08= none

**INVERTER SIDE**

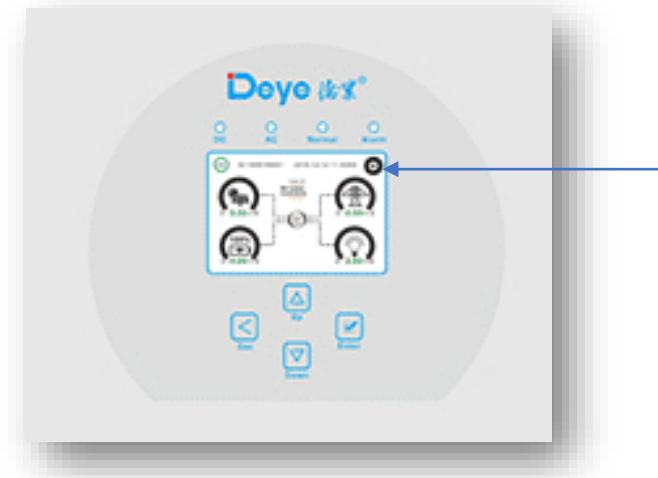
WeCo Monitor PC Software

Inverter Protocol:

| | |
|-------------|-----|
| GROWATT CAN | Set |
| SOC: 0% | Set |

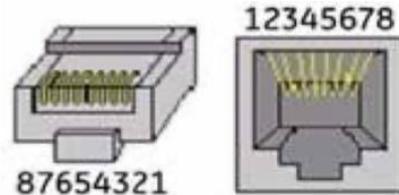
WEKO

FROM DEYE LCD SELECT – CAN 00

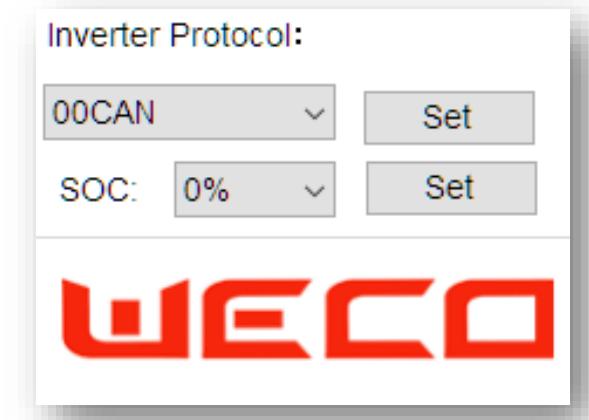


DEYE HYBRID BMS / CAN PIN OUT

| Terminal | Inverter Side RJ45 | Battery Side RJ45 |
|----------|--------------------|-------------------|
| GND | PIN 2 | PIN 3 |
| CAN- L | PIN 5 | PIN 2 |
| CAN -H- | PIN 4 | PIN1 |

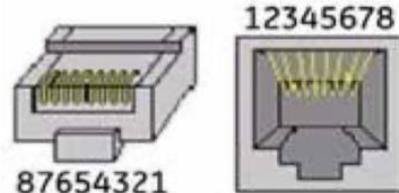


From WeCo Monitor Software

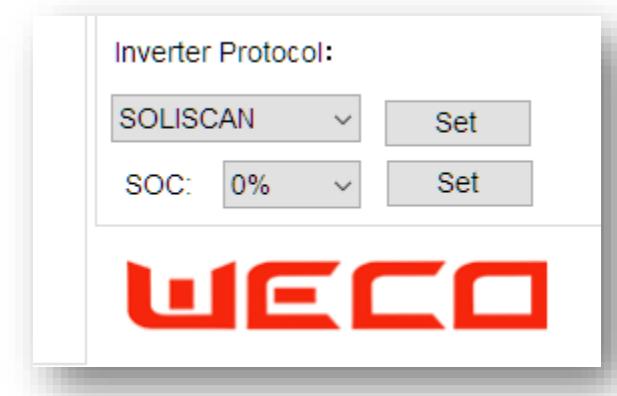


SOLIS RHI BMS / CAN PIN OUT

| Terminal | Inverter Side RJ45 | Battery Side RJ45 |
|----------|--------------------|-------------------|
| GND | PIN 2 | PIN 3 |
| CAN- L | PIN 5 | PIN 2 |
| CAN -H- | PIN 4 | PIN1 |



From WeCo Monitor Software



WECO

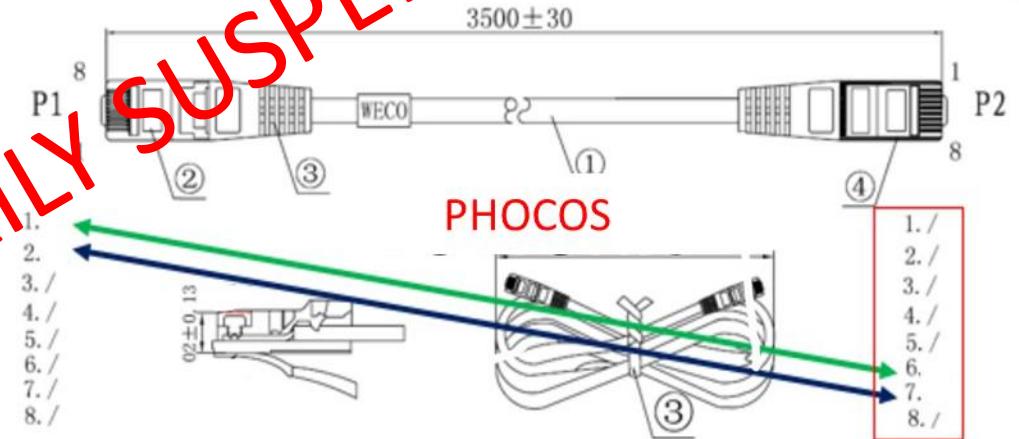
PHOCOS ANY GRID PSW CAN PIN OUT

| Terminal | Inverter Side RJ45 | Battery Side RJ45 |
|----------|--------------------|-------------------|
| GND | - | - |
| CAN- L | PIN 7 | PIN 2 |
| CAN -H- | PIN 6 | PIN1 |



26/11/21

SELECT UEC from PHOCOS LCD MENU
* Battery Selection



From WeCo Monitor Software

Inverter Protocol:

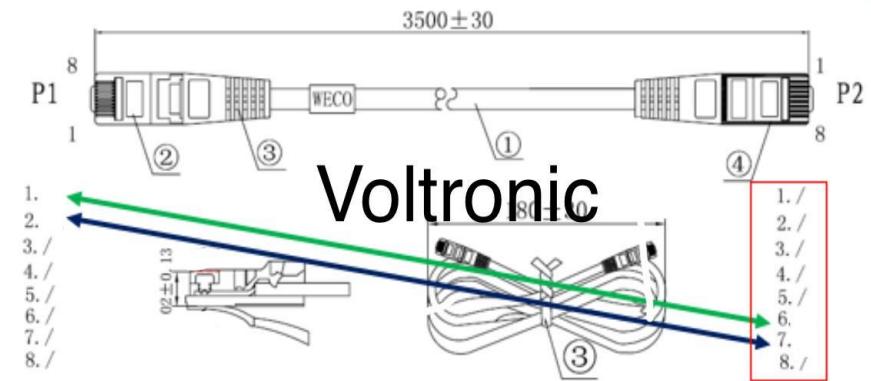
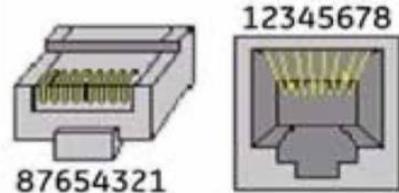
| | |
|--------------|------------------------------------|
| VOLTRONICCAI | <input type="button" value="Set"/> |
| SOC: 0% | <input type="button" value="Set"/> |

WECO

MOD_1.8_BMS to INVERTER PIN OUT

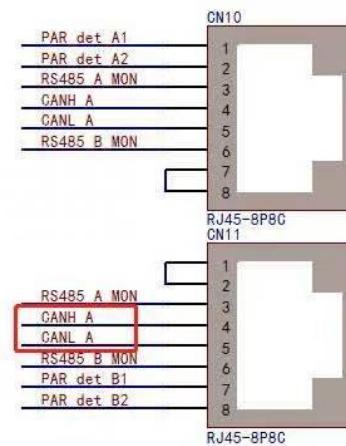
VOLTRONIC COLOR CONTROL CAN PIN OUT

| Terminal | Inverter Side RJ45 | Battery Side RJ45 |
|----------|--------------------|-------------------|
| GND | - | - |
| CAN- L | PIN 7 | PIN 2 |
| CAN -H- | PIN 6 | PIN1 |

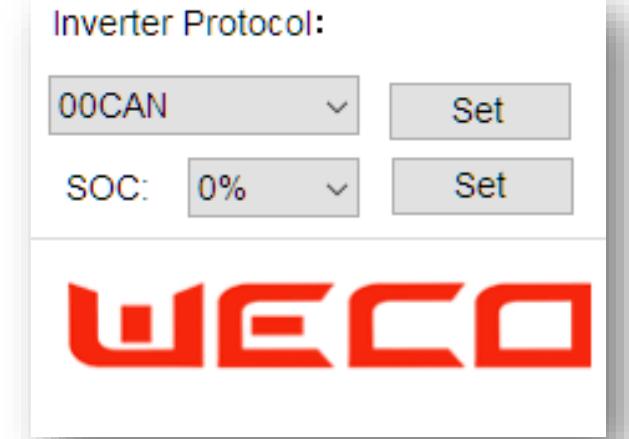


TBB CAN PIN OUT AND PROTOCOL SELECTION

| Terminal | Battery Side RJ45 | TBB TERMINAL |
|----------|-------------------|--------------|
| GND | PIN3 | -- |
| CAN- L | PIN 2 | PIN 5 |
| CAN -H- | PIN1 | PIN 4 |



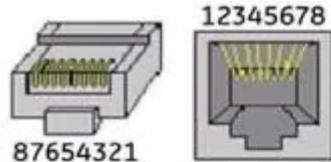
From WeCo Monitor Software





VICTRON COLOR CONTROL CAN PIN OUT

| Terminal | Inverter Side RJ45 | Battery Side RJ45 |
|----------|--------------------|-------------------|
| GND | PIN 3 | PIN3 |
| CAN- L | PIN 8 | PIN 2 |
| CAN -H- | PIN 7 | PIN1 |



BATTERY PROTOCOL SET: VICTRON CAN

Inverter Protocol:

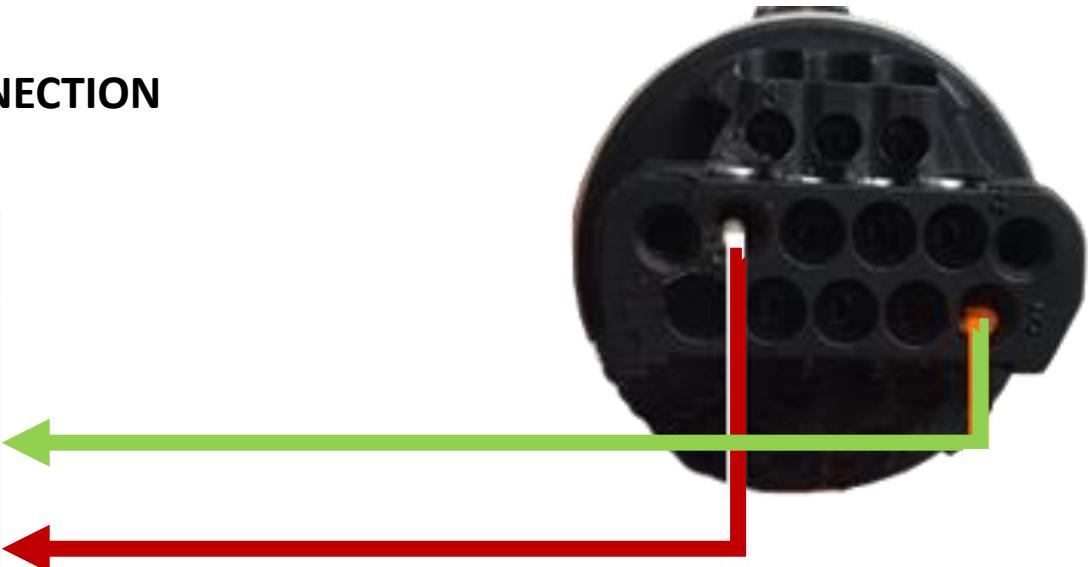
VICTRONCAN

SOC: 70%

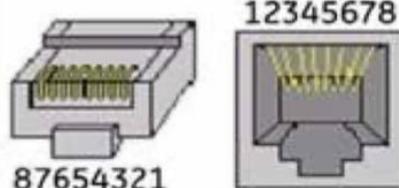


AZURRO ZCS HYD HIGH VOLTAGE THREEPHASE CAN CONNECTION

| Terminal | Battery Side RJ45 | ZCS Terminal |
|----------|-------------------|--------------|
| GND | PIN3 | -- |
| CAN- L | PIN 2 | PIN 8 |
| CAN -H- | PIN1 | PIN 7 |



HV BOX PROTOCOL SET: **WECOCAN**



Setting

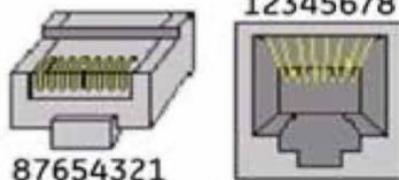
Inverter:

WECO



SOLIS HYBRID HIGH VOLTAGE CAN CONNECTION

| Terminal | Battery Side RJ45 | Solis RJ 45 side |
|----------|-------------------|------------------|
| GND | PIN3 | -- |
| CAN- L | PIN 2 | PIN 5 |
| CAN -H- | PIN1 | PIN 4 |



INVERTER LCD SETTING:

Battery Selection → WECO

HV BOX PROTOCOL SETTING:

Default Protocol → WECO CAN

- Setting

Inverter:

WECO HV CAN

Set

LOW VOLTAGE CONFIGURATION WITH 5K3



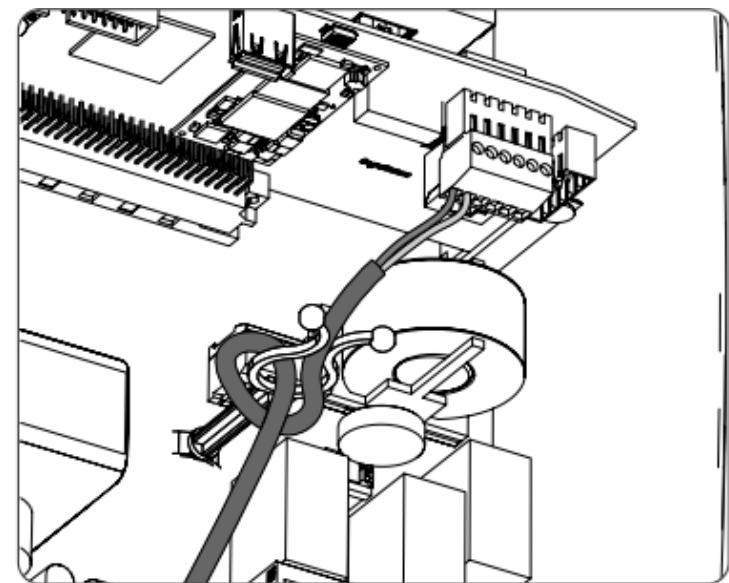
Connect in the HV BOX the CAN Cable in CAN2-A connector.

Cut one extreme and connect to the inverter as is specified in the following table:

Attention: Interface E: RJ45 port corresponding to the CAN bus pin definition

| | Pin | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|---|------------|---|---|---|---|---|-----|-------|-------|
| | Definition | | | | | | GND | CAN L | CAN H |
| 8 | • • • 1 | | | | | | | | |

| Ethernet Cable | INGECON SUN STORAGE 1PLAY TL M | HV BOX |
|----------------|--------------------------------|-------------|
| Pin 1 | J8 BMS CAN H | RJ45 CAN2-A |
| Pin 2 | J8 BMS CAN L | RJ45 CAN2-A |



BATTERY PROTOCOL SET: WECOCAN

Inverter Protocol:

| | |
|----------|-----|
| WeCoCAN | Set |
| SOC: 70% | Set |

HIGH VOLTAGE CONFIGURATION WITH HV BOX_GEN2

Setting

Inverter:

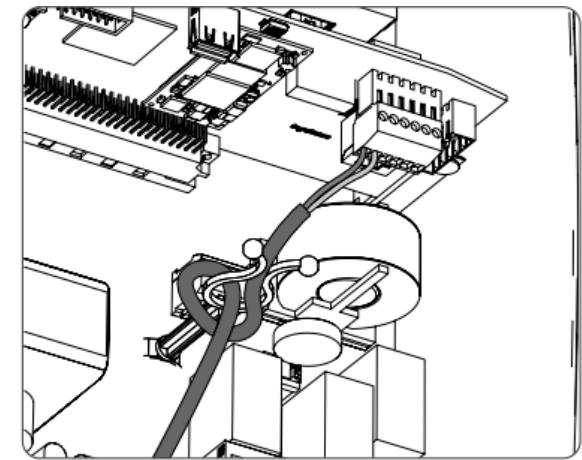
Connect in the HV BOX the CAN Cable in CAN2-A connector.

Cut one extreme and connect to the inverter as is specified in the following table:

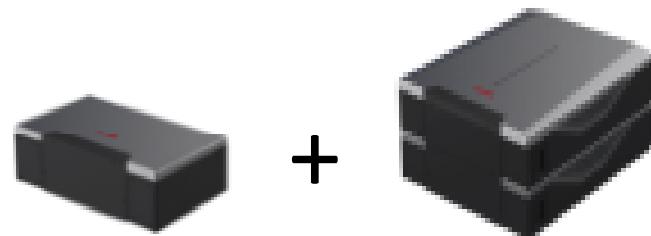
Attention: Interface E: RJ45 port corresponding to the CAN bus pin definition

| Pin | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | |
|------------|---|---|---|---|---|---|-----|-------|-------|
| Definition | 8 | • | • | • | • | 1 | GND | CAN L | CAN H |

| Ethernet Cable | INGECON SUN STORAGE 1PLAY TL M | HV BOX |
|----------------|--------------------------------|-------------|
| Pin 1 | J8 BMS CAN H | RJ45 CAN2-A |
| Pin 2 | J8 BMS CAN L | RJ45 CAN2-A |



HV BOX PROTOCOL SET: INGE HV CAN

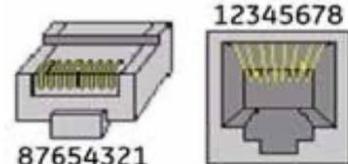
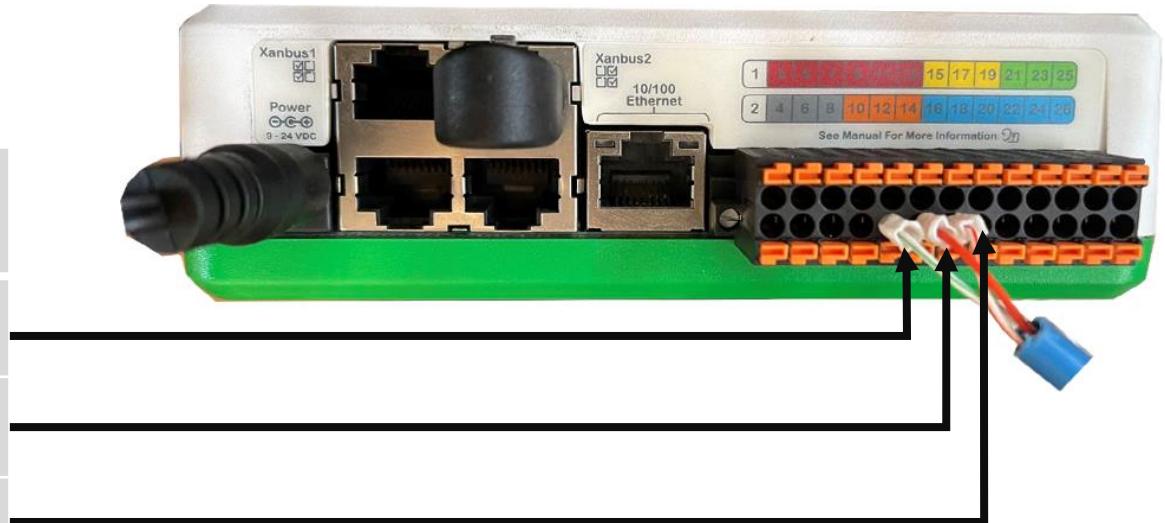


HV-BOX_GEN2 + MINIMUM 2x5K3 LV/HV

WECCO**Schneider**
Electric

SCHNEIDER XW PRO

| Terminal | Battery Side RJ45 | Schneider Gateway |
|----------|-------------------|-------------------|
| GND | PIN3 | 10 |
| CAN- L | PIN 2 | 12 |
| CAN -H- | PIN1 | 14 |



Inverter Protocol:

| | |
|-----------|------------------------------------|
| CONEXTCAN | <input type="button" value="Set"/> |
| SOC: 70% | <input type="button" value="Set"/> |

WECCO

WECO

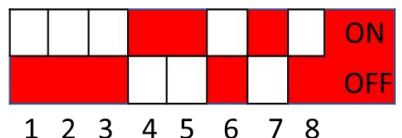
STUDER INNOTEC EXTENDER



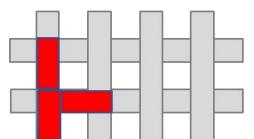
Remove the back cover loosing the two screws on the back side



From the original position of the DIP switch move it as shown in the picture



Jumper position as per below scheme
(3 are used on a total of 4 jumpers kit)



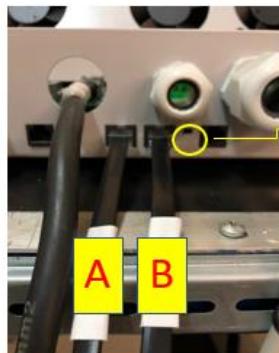
Inverter Protocol:

STUDERCAN SOC: 70%

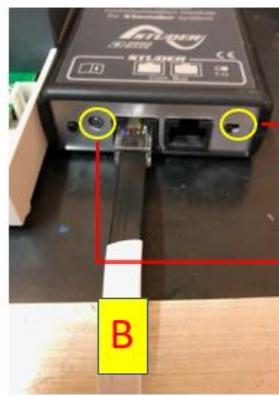
WECO



Extender Bottom Side
A- CAN port 1 of the Inverter RJ45 Port
B- CAN port 2 of the inverter RG45 Port



Termination Switch> Right side (2 ports)



X-Com Bus Side
B- CAN port 1 of the inverter RG45 Port
@ Port 2 Empty

Termination Switch> Right side

LED GREEN
Make sure the LED blink 2 times- Interval
If Blink Green + RED check the connection Again,
the dialog is not correct.
If the LED is RED the connection is wrong