



# **CONNECTION CABLES And ACCESSORIES**



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

4K4

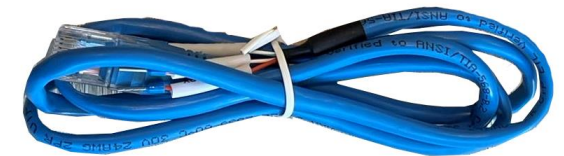
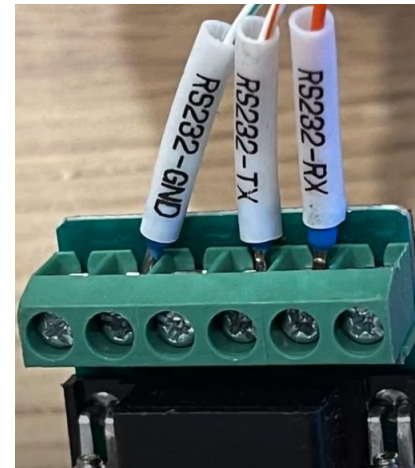
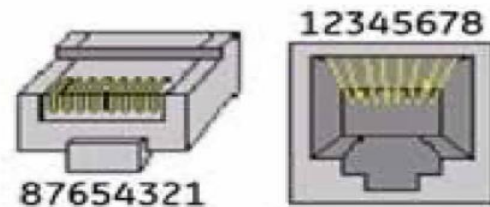


## PC MONITOR 232 / USB PC CONNECTION

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


WECCO-FES-Tools V1.30-Beta12\_20210323







Overview | Module Debug | ParallelOverview | Balance | Setting | DO\_Setting | Production setting | Production Test

### Cell Information

Cell Vol/(V)	1	2	3	4	5
1-5					
6-10					
11-15					
16-20					
Tmp /(°C)	1	2	3		
1-3					


















### Battery Information













DI1:   
DI2:   
DO1:   
DO2:   
Precharge Contactor:   
Main Contactor: 

Total Voltage: 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\_vol 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: ---

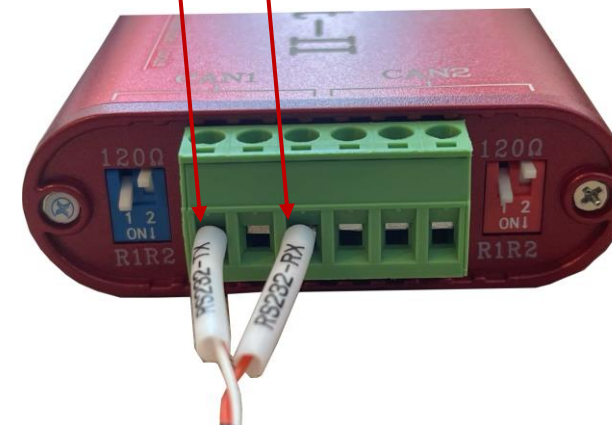
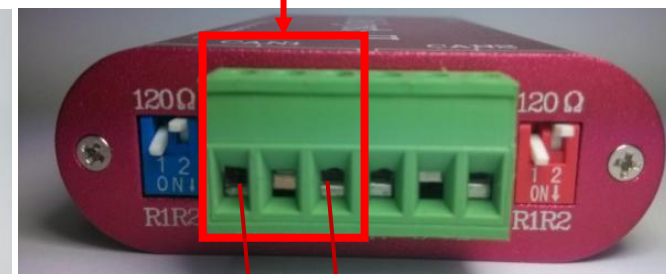
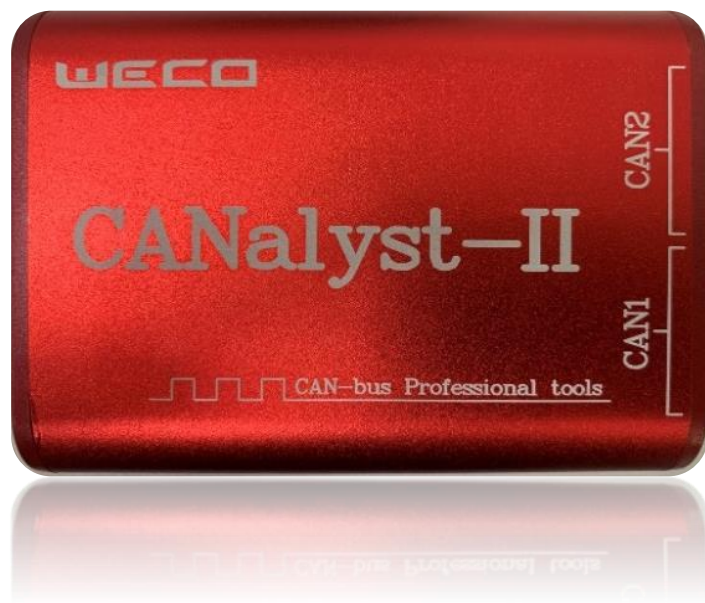
### Parameter

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: **SOLISCAN**  **Set**  
SOC: 0%  **Set**

**WECCO**



## 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**

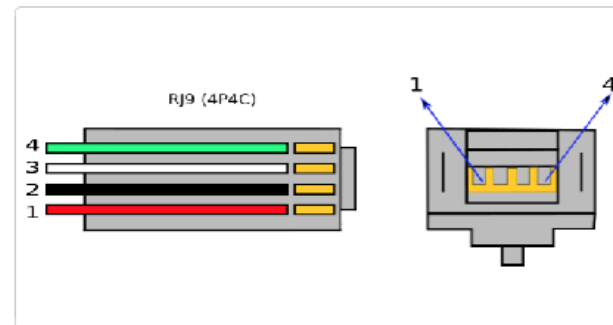
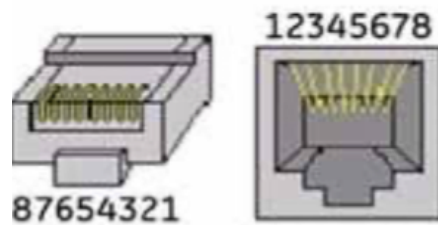
**PIN 04 TO 8= none**

**RJ9 SIDE**

**PIN 01 ---CAN H**

**PIN 02 ---CAN L**

**PIN 03 ---GND**



Inverter Protocol:

WeCoCAN

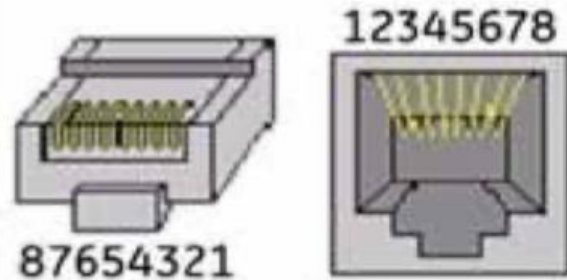
SOC: 70%



## 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%





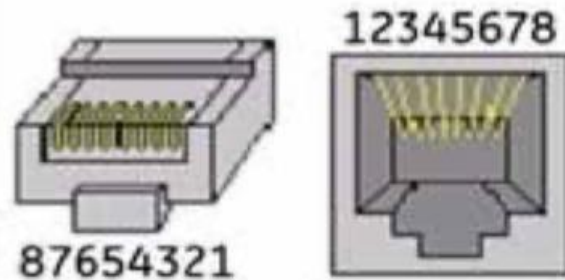


## KEHUA SPH SINGLE PHASE INVERTER

**BATTERY SIDE**


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

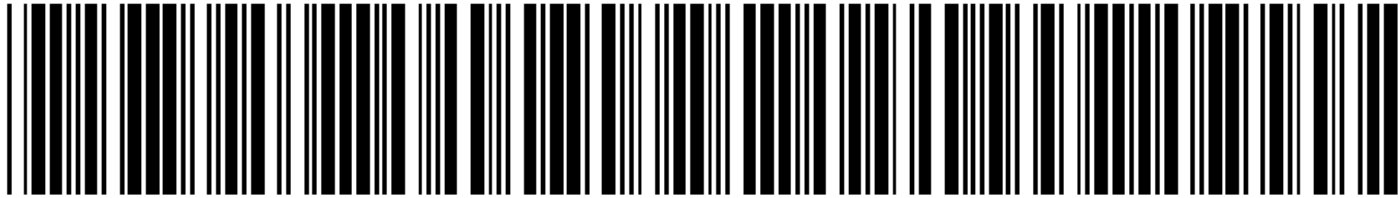
**INVERTER SIDE**



Inverter Protocol:

KEHUACAN	▼	Set
SOC:	0% ▼	Set





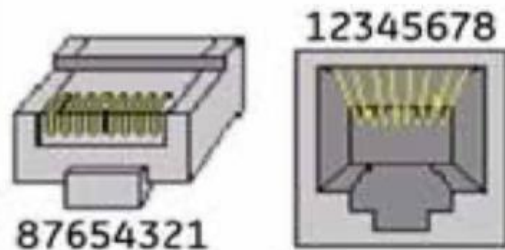
\*BMS-RJ45-GROWA-SPH\*

#### BATTERY SIDE

PIN 01 =-----  
PIN 02 =-----  
PIN 03 =-----  
PIN 06 TO 08= none

#### INVERTER SIDE

PIN 04 ---CAN H  
PIN 05 ---CAN L  
PIN 02 --- GND



#### WeCo Monitor PC Software

Inverter Protocol:

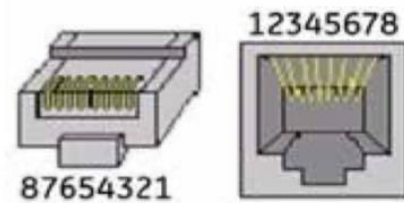
GROWATTCAN	▼	Set	
SOC:	0%	▼	Set



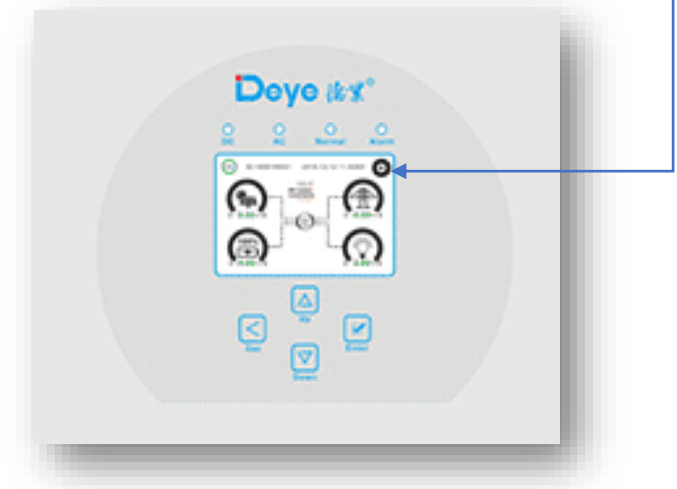


## DEYE HYBRID BMS / CAN PIN OUT

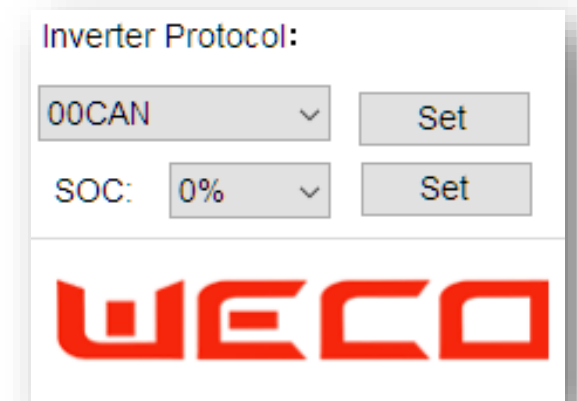
Terminal	Inverter Side RJ45	Battery Side RJ45
GND	PIN 2	PIN 3
CAN- L	PIN 5	PIN 2
CAN -H-	PIN 4	PIN1



FROM DEYE LCD SELECT – CAN 00



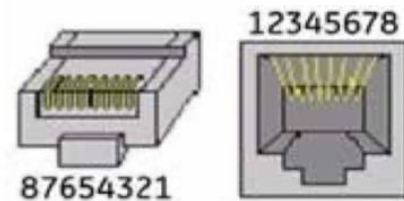
From WeCo Monitor Software





## SOLIS RHI BMS / CAN PIN OUT

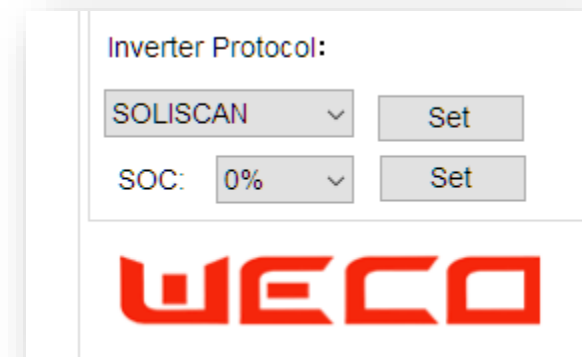
Terminal	Inverter Side RJ45	Battery Side RJ45
GND	PIN 2	PIN 3
CAN- L	PIN 5	PIN 2
CAN -H-	PIN 4	PIN1



FROM SOLIS RHI SELECT – WECO BATTERY



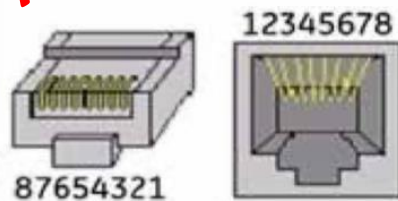
From WeCo Monitor Software



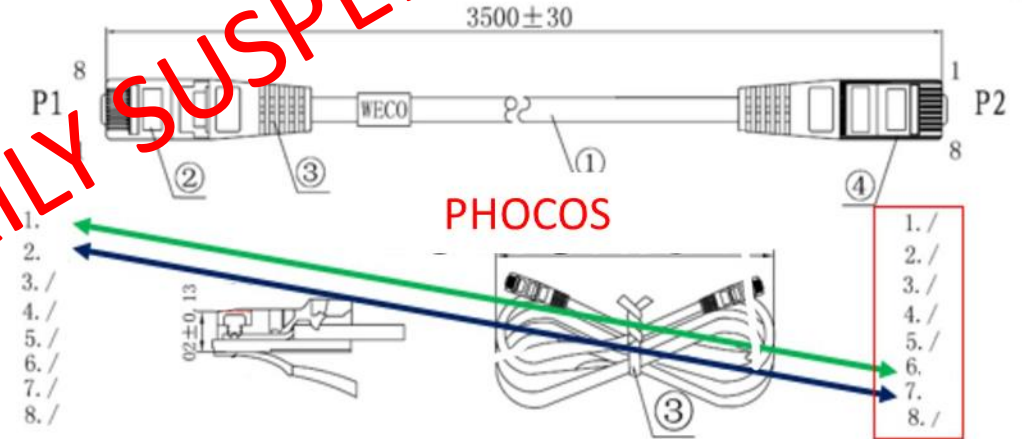


## PHOCOS ANY GRID PSW CAN PIN OUT

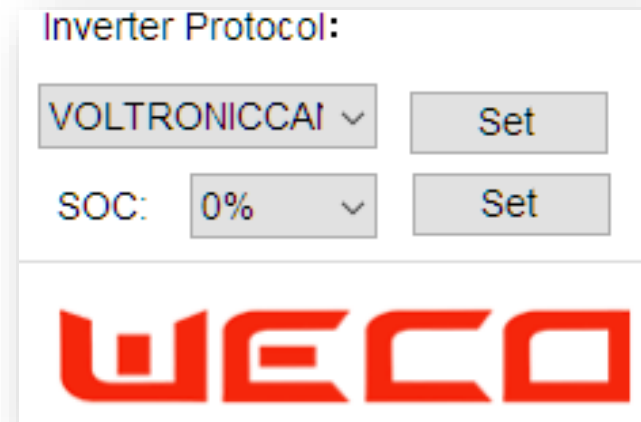
Terminal	Inverter Side RJ45	Battery Side RJ45
GND	-	-
CAN- L	PIN 7	PIN 2
CAN -H-	PIN 6	PIN1



SELECT UEC from PHOCOS LCD MENU  
\* Battery Selection



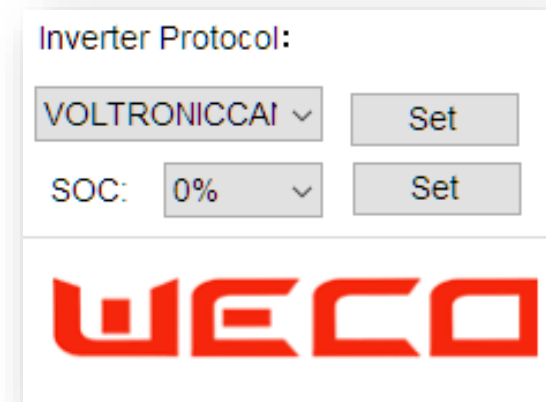
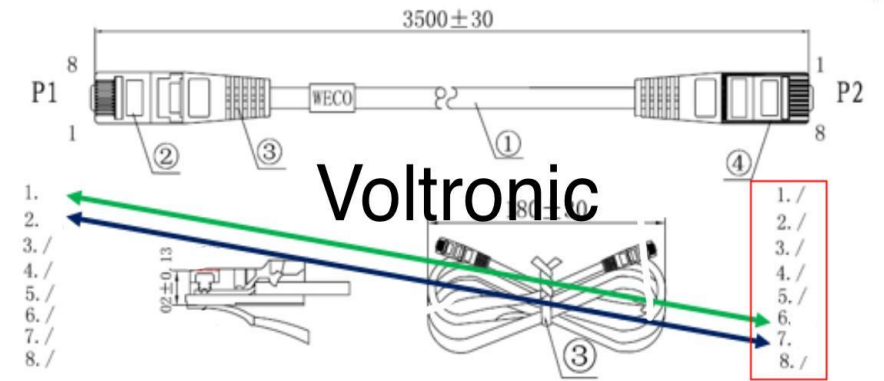
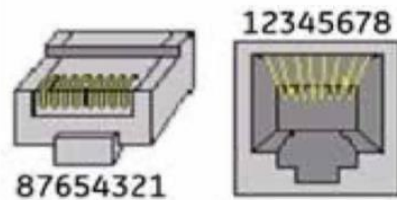
From WeCo Monitor Software





## VOLTRONIC COLOR CONTROL CAN PIN OUT

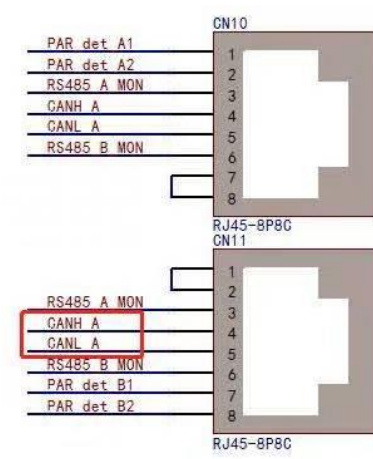
Terminal	Inverter Side RJ45	Battery Side RJ45
GND	-	-
CAN- L	PIN 7	PIN 2
CAN -H-	PIN 6	PIN1





## 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

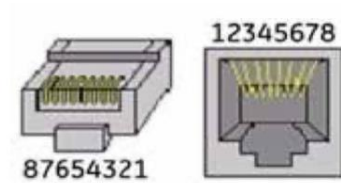


From WeCo Monitor Software



## 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%



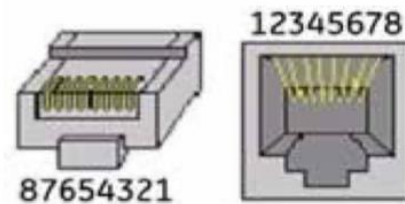


## AZZURRO ZCS HYD HIGH VOLTAGE THREEPHASE CAN CONNECTION

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 HV CAN ▾ Set



## SOLIS HYBRID HIGH VOLTAGE CAN CONNECTION

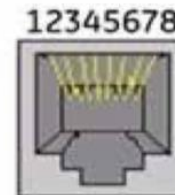
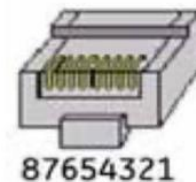
Terminal	Battery Side RJ45	Solis RJ 45 side
GND	PIN3	--
CAN- L	PIN 2	PIN 5
CAN -H-	PIN1	PIN 4

### INVERTER LCD SETTING:

Battery Selection → WECO

### HV BOX PROTOCOL SETTING:

Default Protocol → WECO CAN



Setting

Inverter:

WECO HV CAN

Set



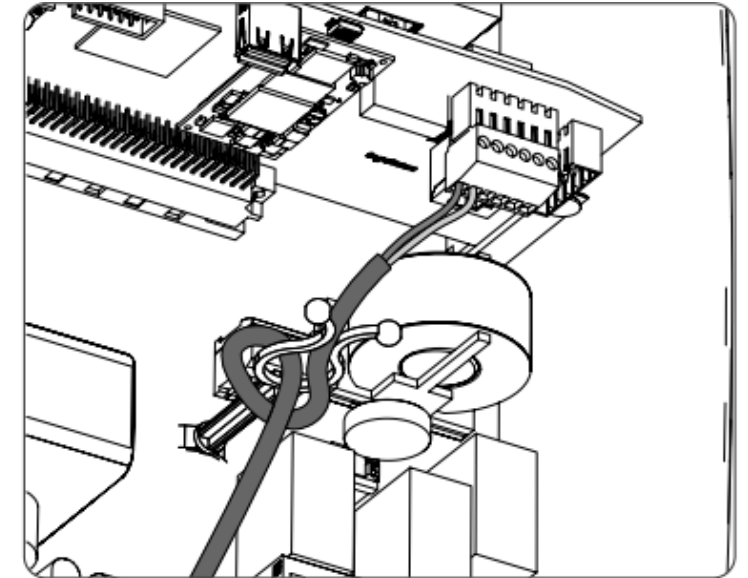
SINGLE PHASE LOW VOLTAGE CONFIGURATION

## 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

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

SOC: 70%



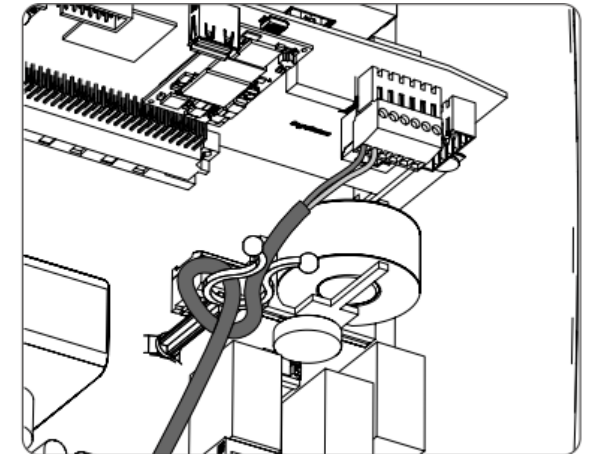
## HIGH VOLTAGE CONFIGURATION WITH HV BOX\_GEN2

-Setting-

Inverter:

INGE HV CAN

Set



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

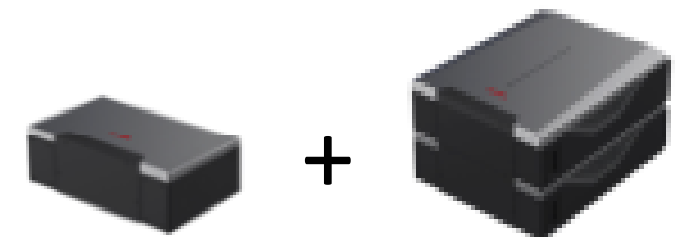
Cut one extreme and connect to the inverter as is specified in the following table:

**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

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**

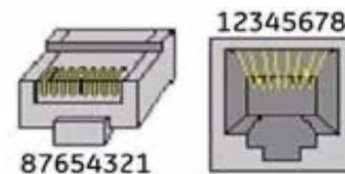
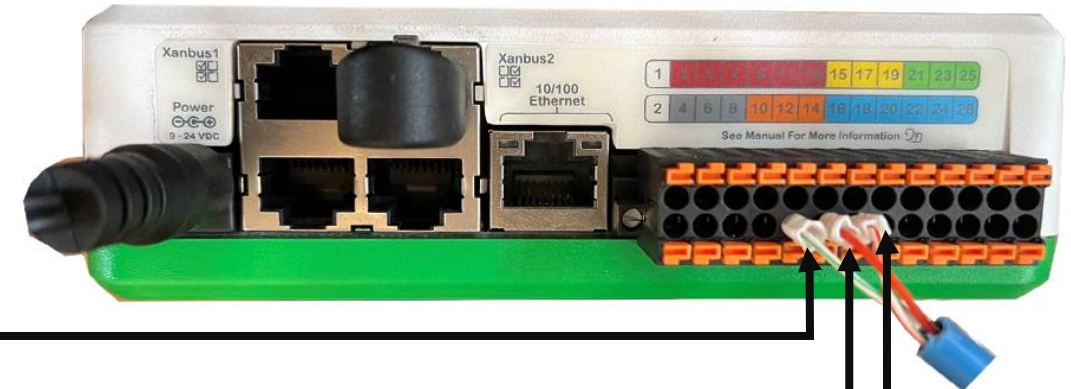


**HV-BOX\_GEN2**    **MINIMUM 2x5K3 LV/HV**



## SCHNEIDER XW PRO

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



Inverter Protocol:

CONEXTCAN

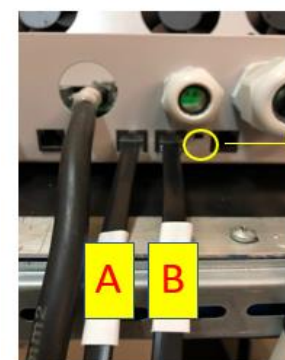
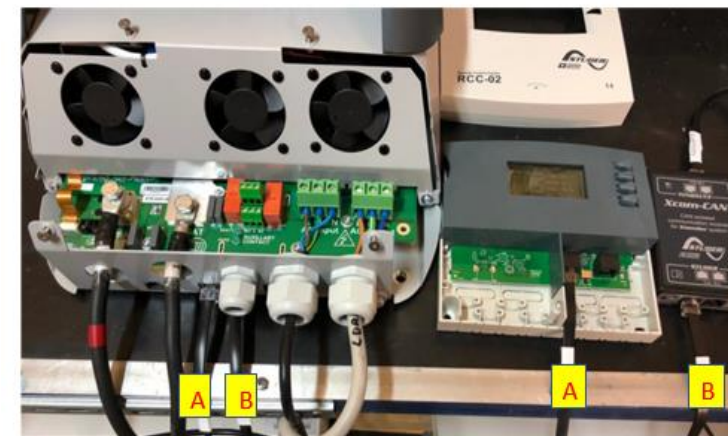
SOC: 70%



## STUDER INNOTECH EXTENDER



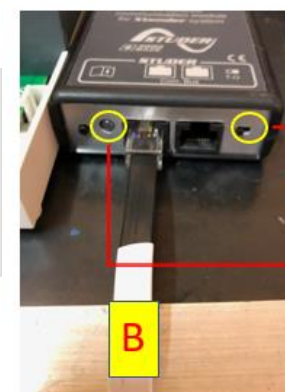
Remove the back cover losing the two screws on the back side



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

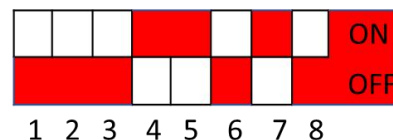


LED GREEN

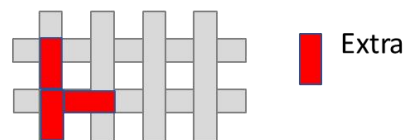
Make sure the LED blink 2 times- Interval  
If Blink Green + RED check the connection Again,  
the dialog is not correct.  
If the LED is RED the connection is wrong



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%