



# CONNECTION CABLES And ACCESSORIES



**FIRMWARE 6.35 or ABOVE  
DIP SEQUENCE OF THE 5K3 LV/HV HAS BEEN MODIFIED  
Please read carefully page 5**



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

4K4

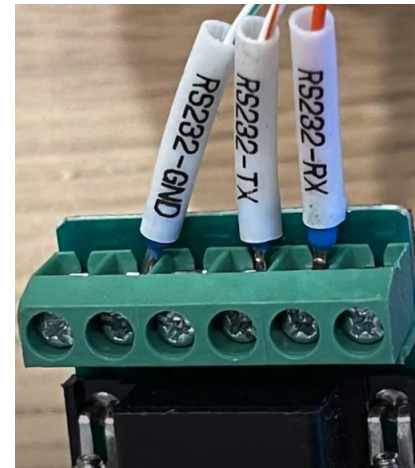
4K4 PRO

5K3

5K3 XP

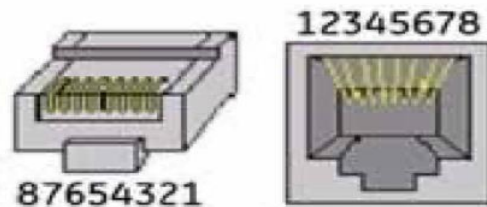
# PC MONITOR 232 / USB PC CONNECTION

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



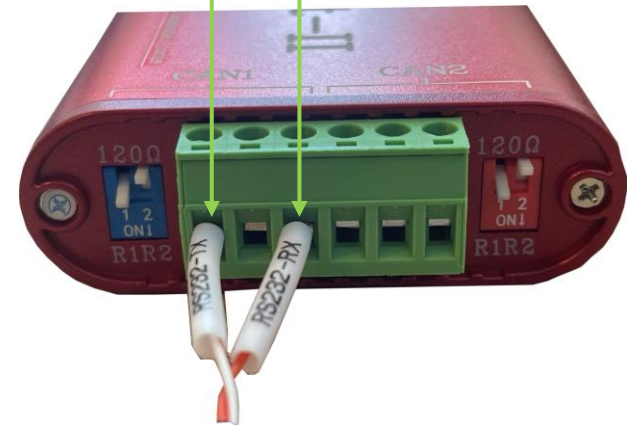
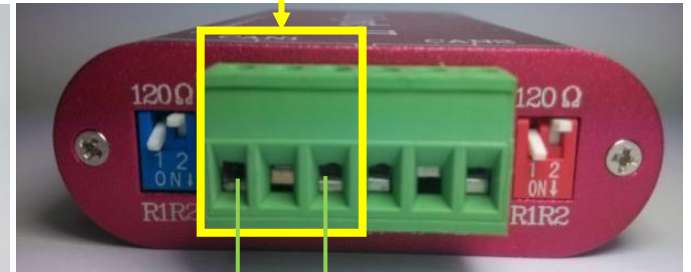
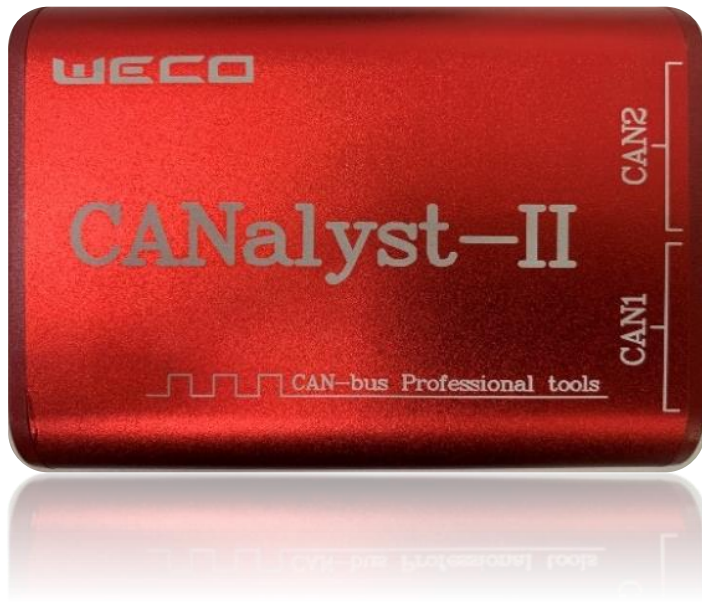
## RJ 45 TO WIRE - PIN DEFINITION-

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





## CAN to USB WeCo Converter PIN DEFINITION



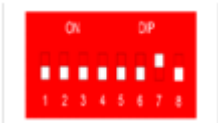
# 5K3 LV and LV/HV



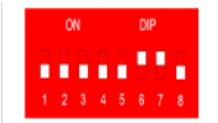
**ATTENTION PLEASE**

ANY 5K3 ( LV or LV/HV) upgraded to the Firmware 6.35 or above must follow the DIP Setting as shown below  
The modification only affects the Battery 6 and 7

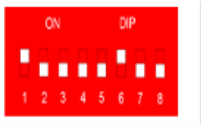
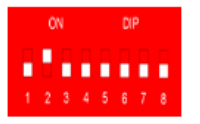
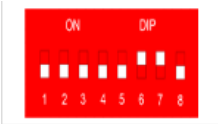
Single battery



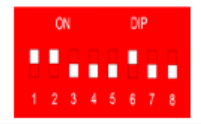
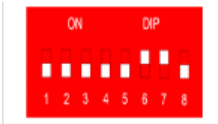
2 batteries



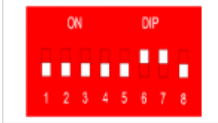
3 batteries



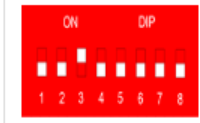
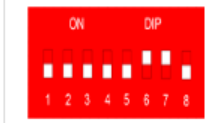
4 batteries



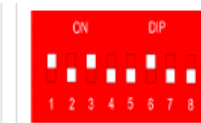
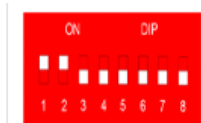
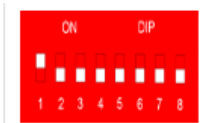
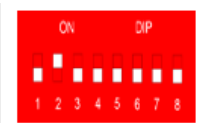
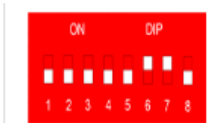
5 batteries



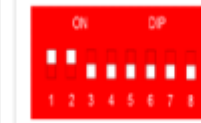
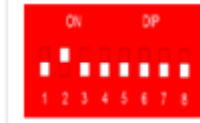
6 batteries



7 batteries



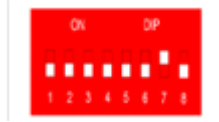
8 batteries



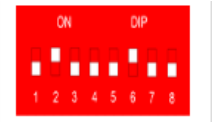
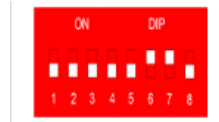
# 4K4-8 DIP SETTINGS VALID WITH ANY FIRWARE



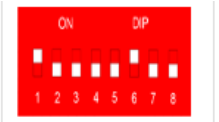
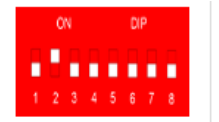
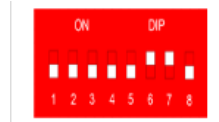
Single battery



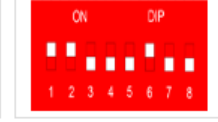
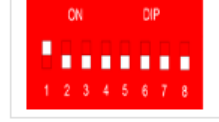
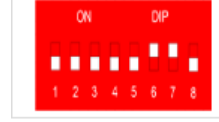
2 batteries



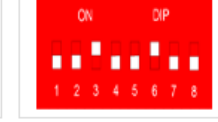
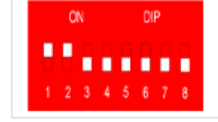
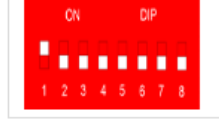
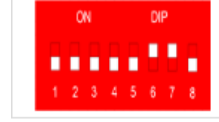
3 batteries



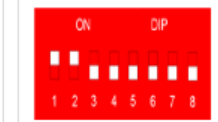
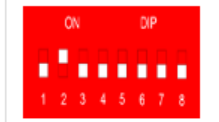
4 batteries



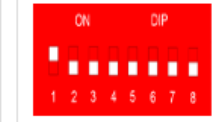
5 batteries



6 batteries



7 batteries



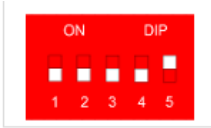
8 batteries



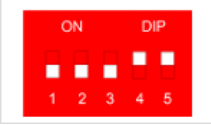
# 4K4-5 DIP DIP SETTINGS VALID FOR ANY FIRMWARE

# 4K4

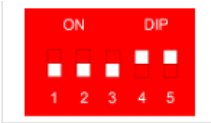
Single battery



2 batteries



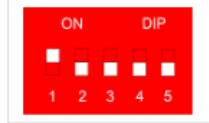
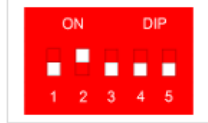
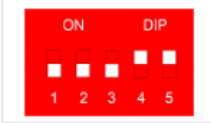
3 batteries



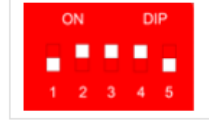
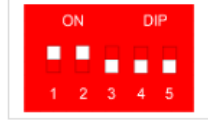
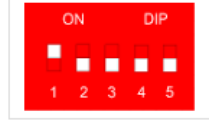
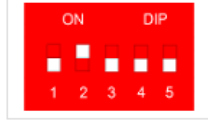
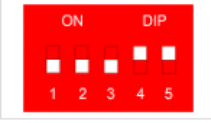
4 batteries



5 batteries



6 batteries



7 batteries



8 batteries





## WeCo Monitor, PROTOCOL SETTING PAGE


WECO-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
















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: ---

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

### 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: ---

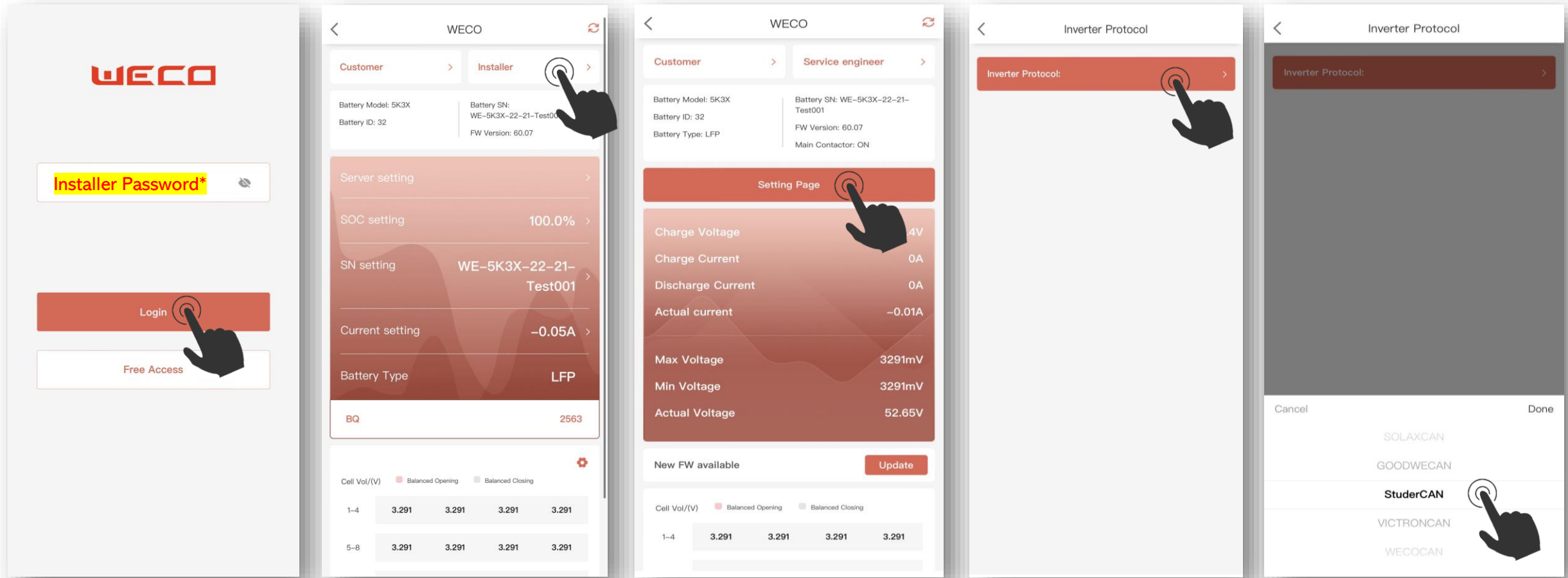
Inverter Protocol: **SOLISCAN** Set  
SOC: 0% Set

Protocol Drop List Menu





## BLUETOOTH APP- PROTOCOL SETTING PAGE



\*Installer Password is provided by email only to approved installers



# **INVERTER PIN OUT**

## **LV and HV**

## ZCS AZZURRO SINGLE PHASE SERIES

**RJ 45 SIDE**

**PIN 01**

**PIN 02**

**PIN 03**

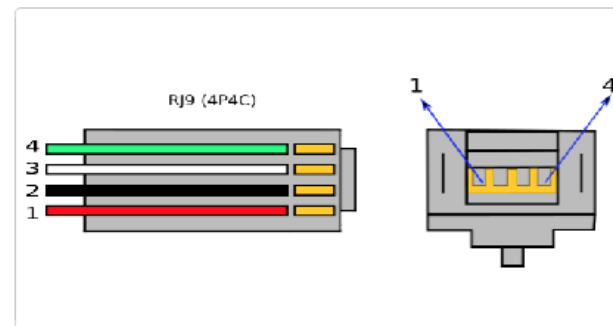
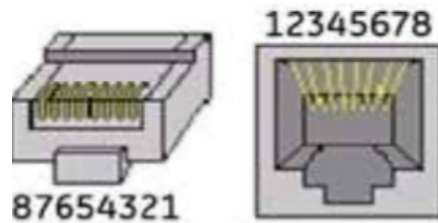
**PIN 04 TO 8= none**

**RJ9 SIDE**

**PIN 01 ---CAN H**

**PIN 02 ---CAN L**

**PIN 03 ---GND**



Inverter Protocol:

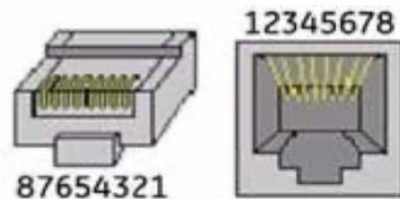
WeCoCAN

SOC: 70%

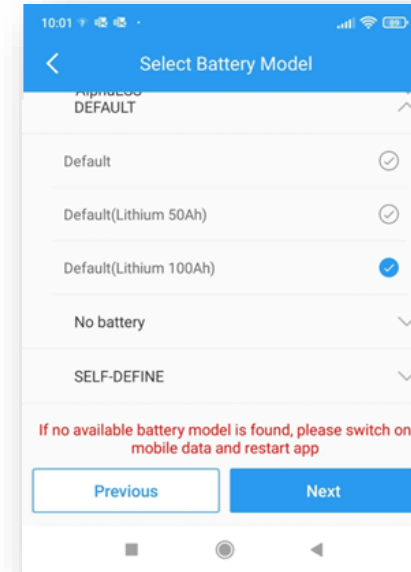


## GOODWE LOW VOLTAGE INVERTERS

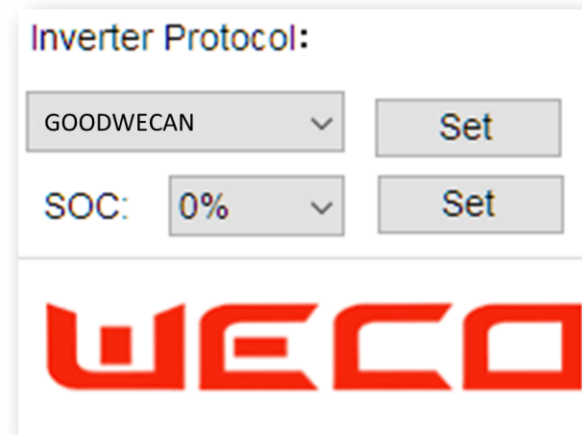
Terminal	INVERTER Side RJ45	WECO Side RJ45
GND	PIN 2	PIN 3
CAN- L	PIN 5	PIN 2
CAN -H-	PIN 4	PIN1



FROM GOODWE APP SELECT  
**DEFAULT – 100Ah Battery**



From WeCo Monitor Software

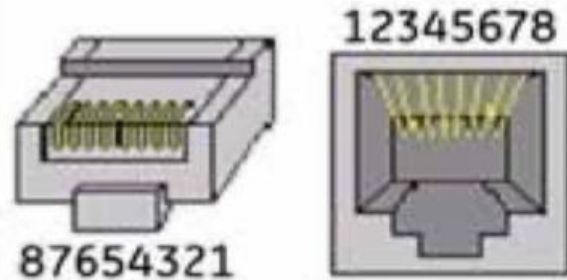




## SMA SUNNY ISLAND SINGLE PHASE INVERTER

### 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%





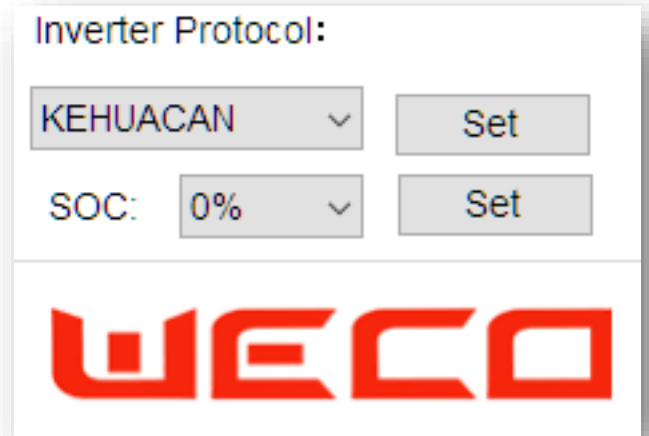
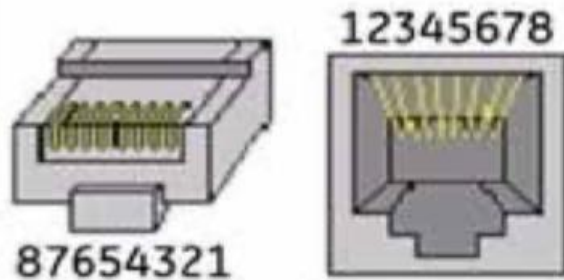
## KEHUA SPH SINGLE PHASE INVERTER

**BATTERY SIDE**

**PIN 01 =**  
**PIN 02 =**  
**PIN 03 TO 8= none**

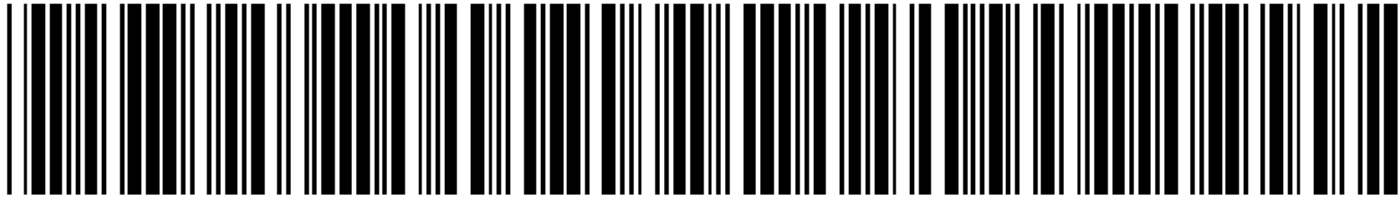
**INVERTER SIDE**

**PIN 01 ---CAN H**  
**PIN 02 ---CAN L**





## GROWATT LOW VOLTAGE SPH HYBRID INVERTER



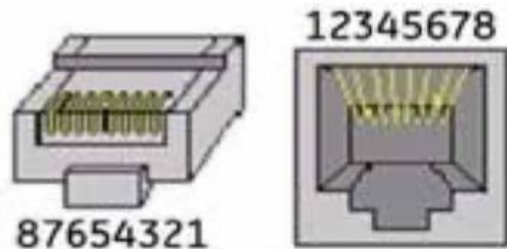
\*BMS-RJ45-GROWA-SPH\*

### 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

SOC: 0%

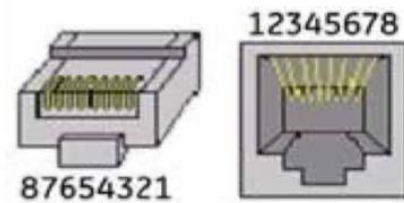




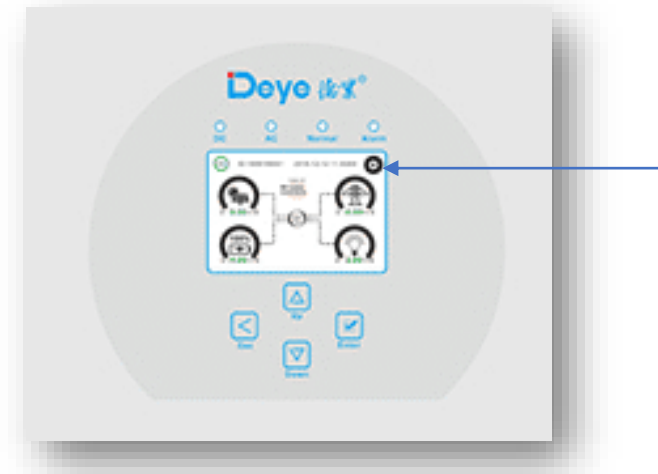


### DEYE HYBRID BMS / CAN PIN OUT

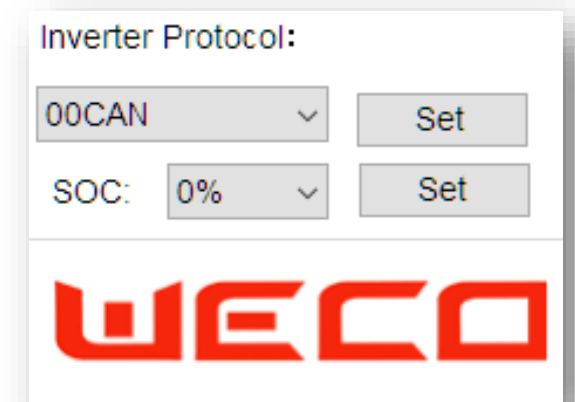
Terminal	DEYE Side RJ45	WECO Side RJ45
GND	PIN 2	PIN 3
CAN- L	PIN 5	PIN 2
CAN -H-	PIN 4	PIN1



FROM DEYE LCD SELECT – CAN 00



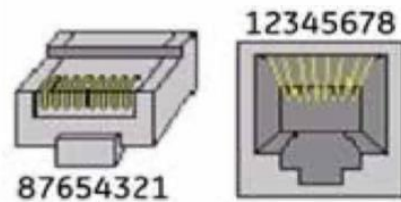
From WeCo Monitor Software





### SOLIS RHI BMS / CAN PIN OUT

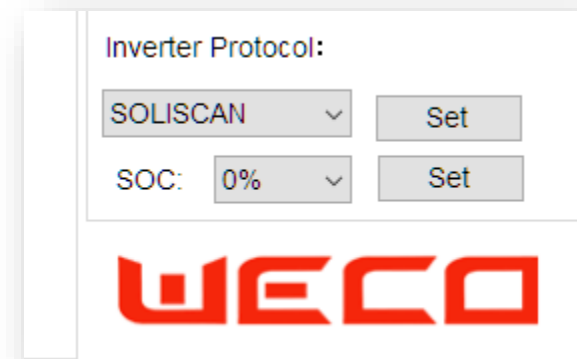
Terminal	Inverter Side RJ45	Battery Side RJ45
GND	PIN 2	PIN 3
CAN- L	PIN 5	PIN 2
CAN -H-	PIN 4	PIN1



FROM SOLIS RHI SELECT – WECCO BATTERY



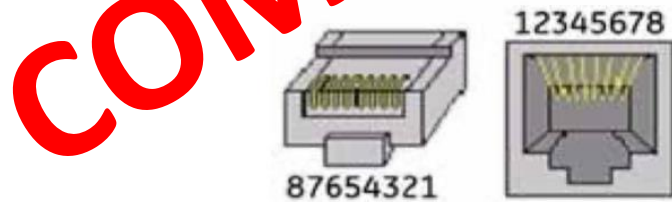
From WeCo Monitor Software



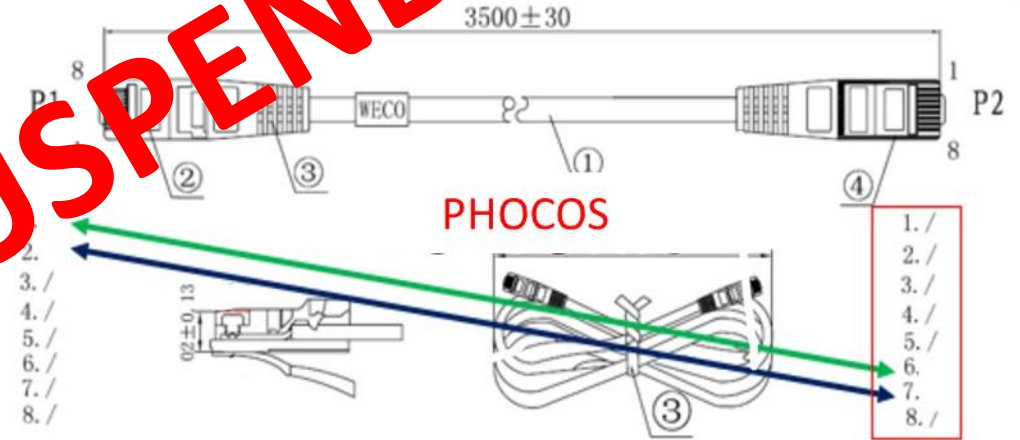


### PHOCOS ANY GRID PSW CAN PIN OUT

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

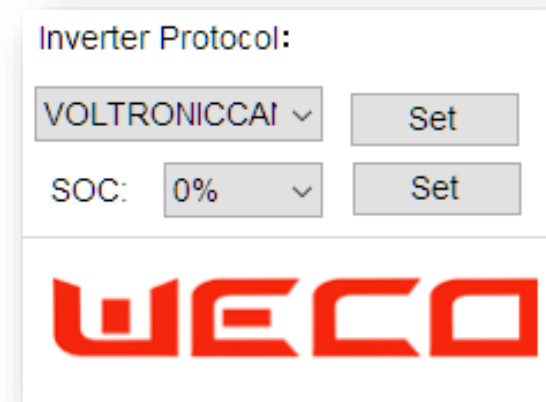
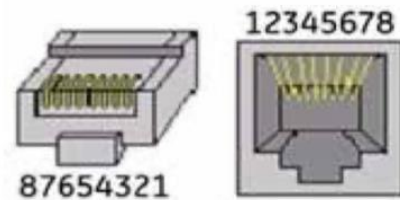
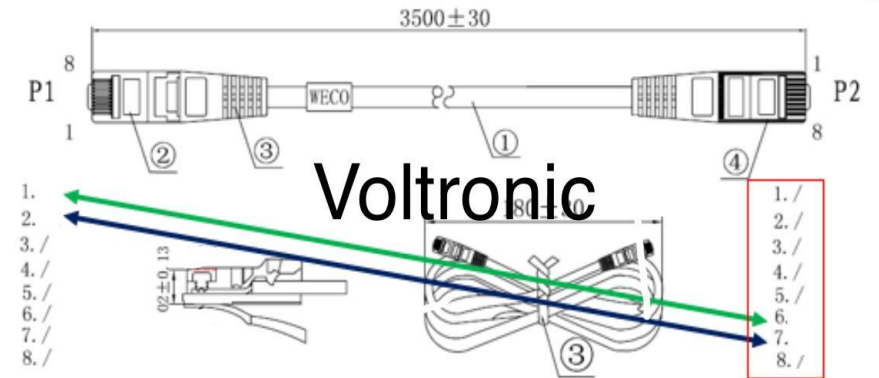


From WeCo Monitor Software



## VOLTRONIC COLOR CONTROL CAN PIN OUT Valid For MPP and any Inverter OEM by Voltronic

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

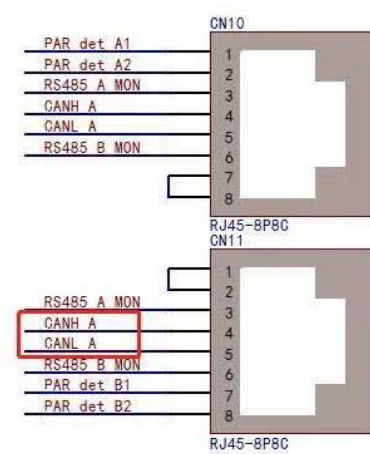




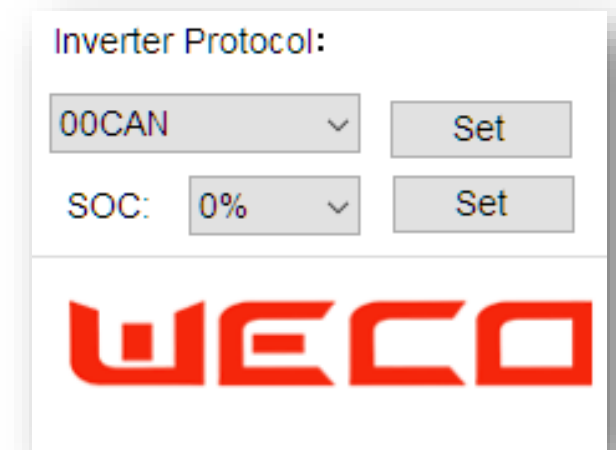
PURSUIT OF PERFECTION

## 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

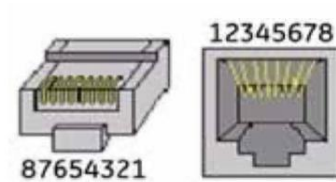


## VICTRON COLOR CONTROL CAN PIN OUT

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

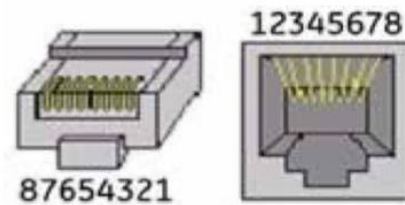
SOC: 70%

## 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



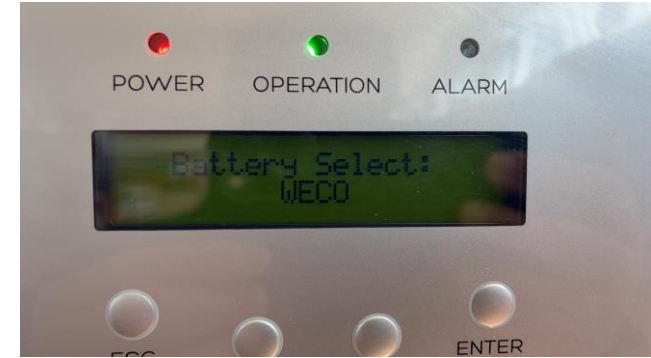
HV BOX PROTOCOL SET: **WECOCAN**



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:

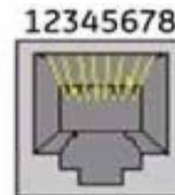
Battery Selection → WECO

#### HV BOX PROTOCOL SETTING:

Default Protocol → WECO CAN



87654321



12345678

-Setting-

Inverter:

WECO HV CAN ▾

Set

SINGLE PHASE LOW VOLTAGE CONFIGURATION

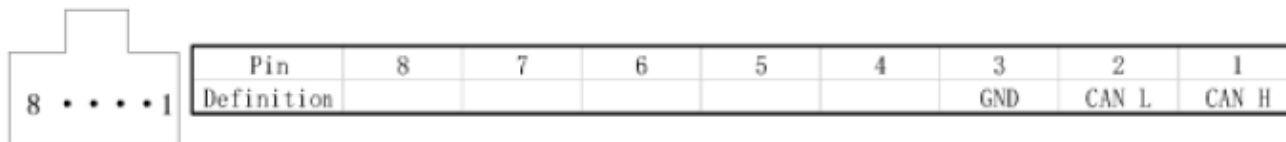
## LOW VOLTAGE CONFIGURATION WITH 5K3



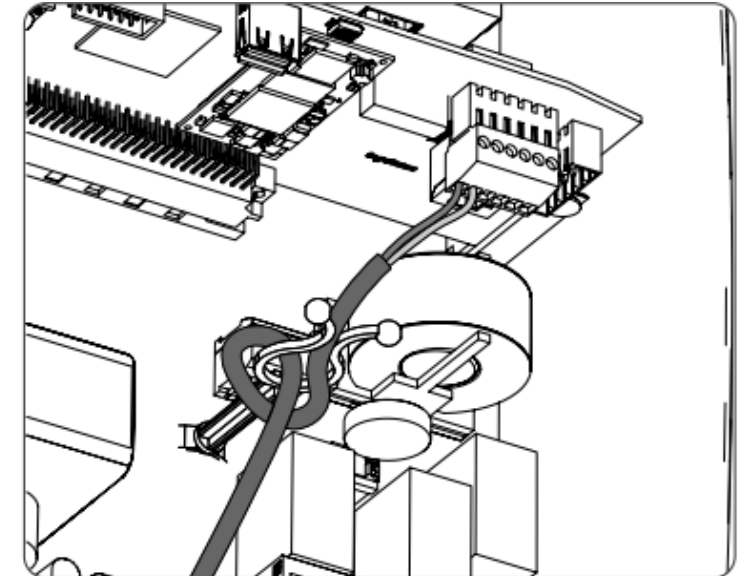
Connect in the HV BOX the CAN Cable in CAN2-A connector.

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



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



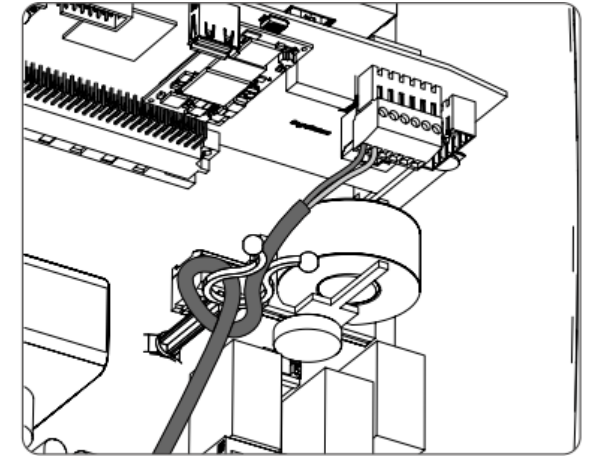
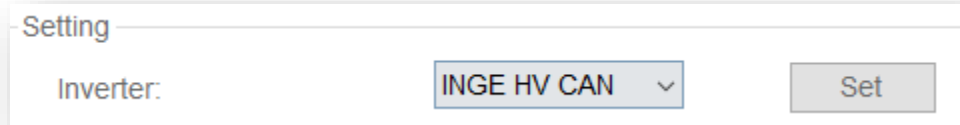
## BATTERY PROTOCOL SET: WECOCAN

Inverter Protocol:

WeCoCAN

SOC: 70%

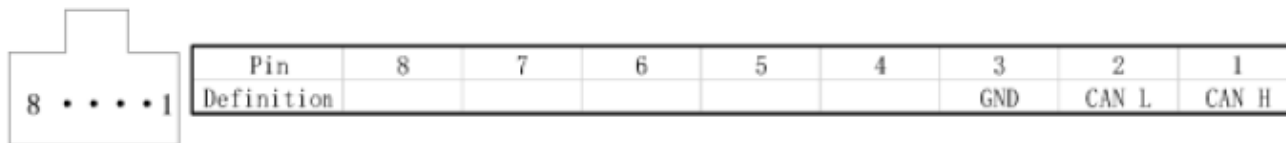
## HIGH VOLTAGE CONFIGURATION WITH HV BOX\_GEN2



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:

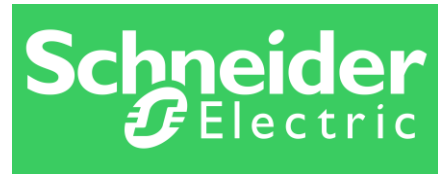
**Attention:** Interface E: RJ45 port corresponding to the CAN bus pin definition



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

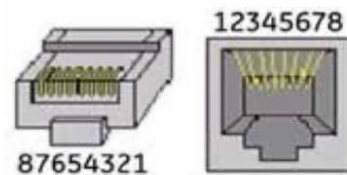
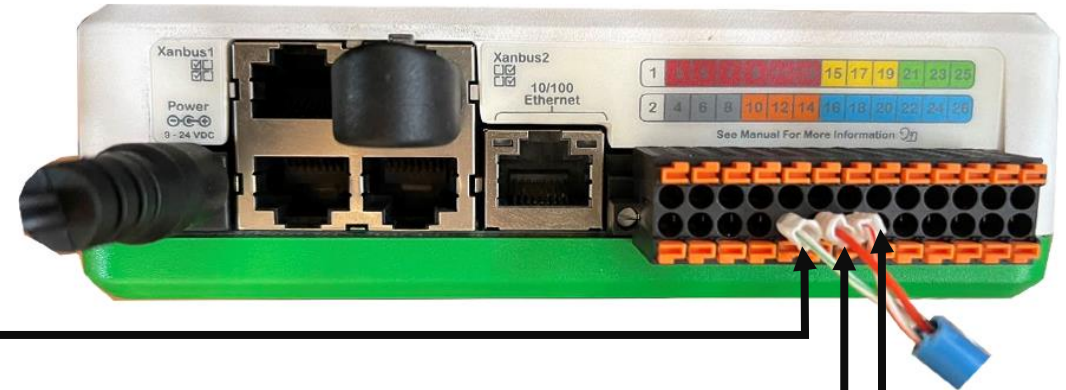
### HV BOX PROTOCOL SET: INGE HV CAN





## SCHNEIDER XW PRO

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



Inverter Protocol:

CONEXTCAN  Set

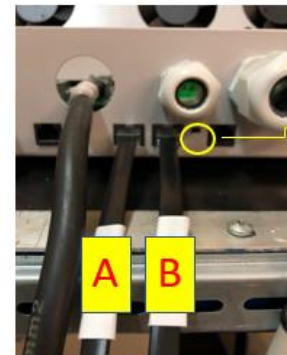
SOC: 70%  Set



## STUDER INNOTECH EXTENDER



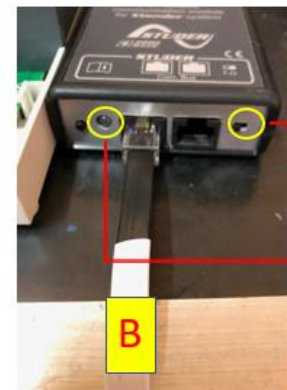
Remove the back cover losing the two screws on the back side



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)  
 T  O



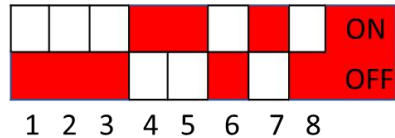
X-Com Bus Side  
B- CAN port 1 of the inverter RG45 Port  
@ Port 2 Empty

Termination Switch > Right side  
 T  O

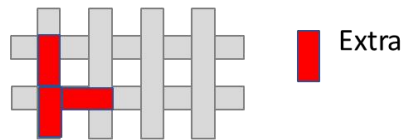
LED GREEN  
Make sure the LED blink 2 times- Interval  
If Blink Green + RED check the connection Again,  
the dialog is not correct.  
If the LED is RED the connection is wrong



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%