Quick Installation Guide

Studer Xtender-WeCo batteries

READ THE MANUAL BEFORE INSTALLING THE BATTERY

STUDER Xtender

WeCo HeSU Battery

5K3

4PRO4K

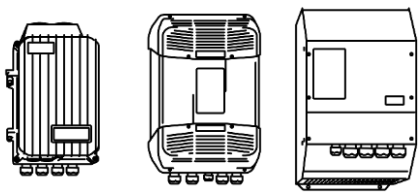
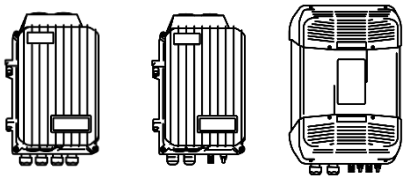
STUDER Xcom-CAN

STUDER RCC-02

Configuring Studer + Weco

This document describes the configuration of Studer's devices from the xtender range when used with Weco batteries.

The **xtender** range is compatible with following Weco batteries using the **xcom CAN** through communication with the BMS.

Studer xtender range	Weco batteries
 **xtender** xts 1400-48, xtm 2600-48, xtm 4000-48 xth 6000-48, xth 8000-48	 **5k3, 4k4 Pro, 4k4**
 **variotrack + variostring** vt 40, vt 65, vt 80, vs 70, vs 120	

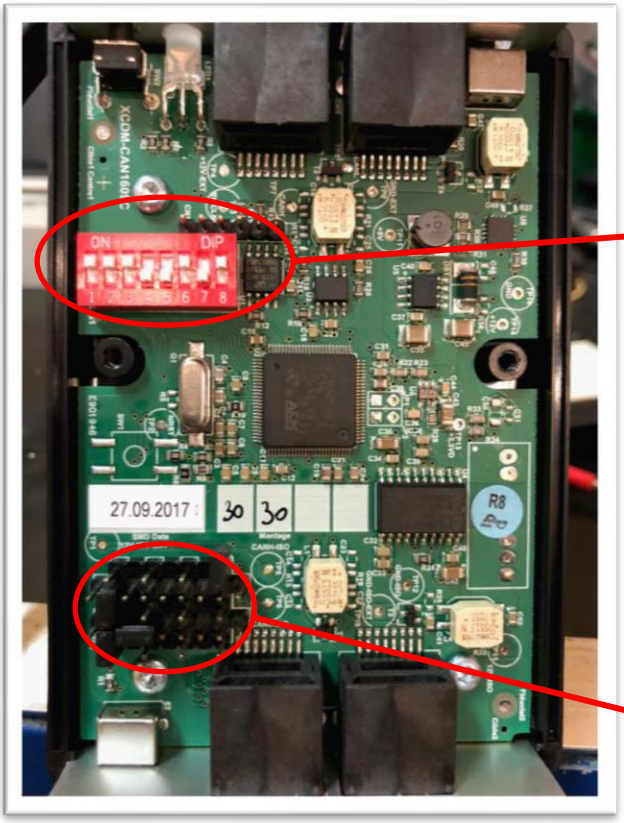
Minimum configuration list

Studer device*	Cont. Power / Peak Power 5sec (VA)	Minimum amount of WECO batteries (units)		
		5k3	4k4 Pro	4k4
xts 1400-48	900 / 2'800	1	1	1
xtm 2600-48	2'000 / 6'500	1	1	2
xtm 4000-48	3'500 / 10'500	1	2	3
xth 6000-48	5'000 / 15'000	2	2	4
xth 8000-48	7'000 / 21'000	2	3	5

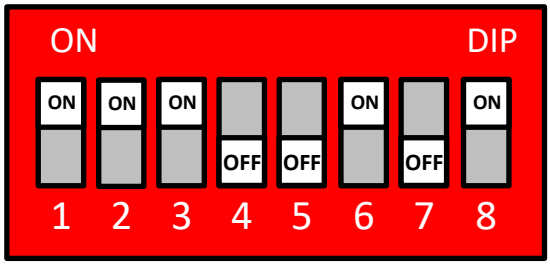
*variotrack and variostring do not require a minimum amount of batteries

Configurations

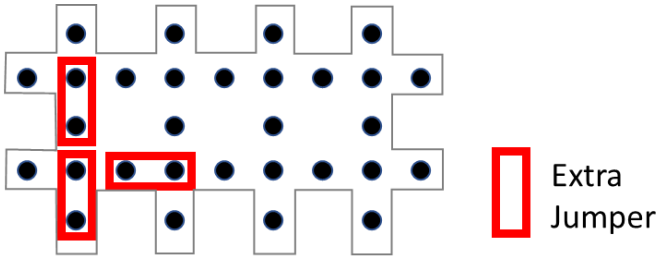
Remove the back cover of the Xcom-CAN by loosening the two screws on the back side



Change the DIP switch settings match the picture and the image below



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



Cabling Overview

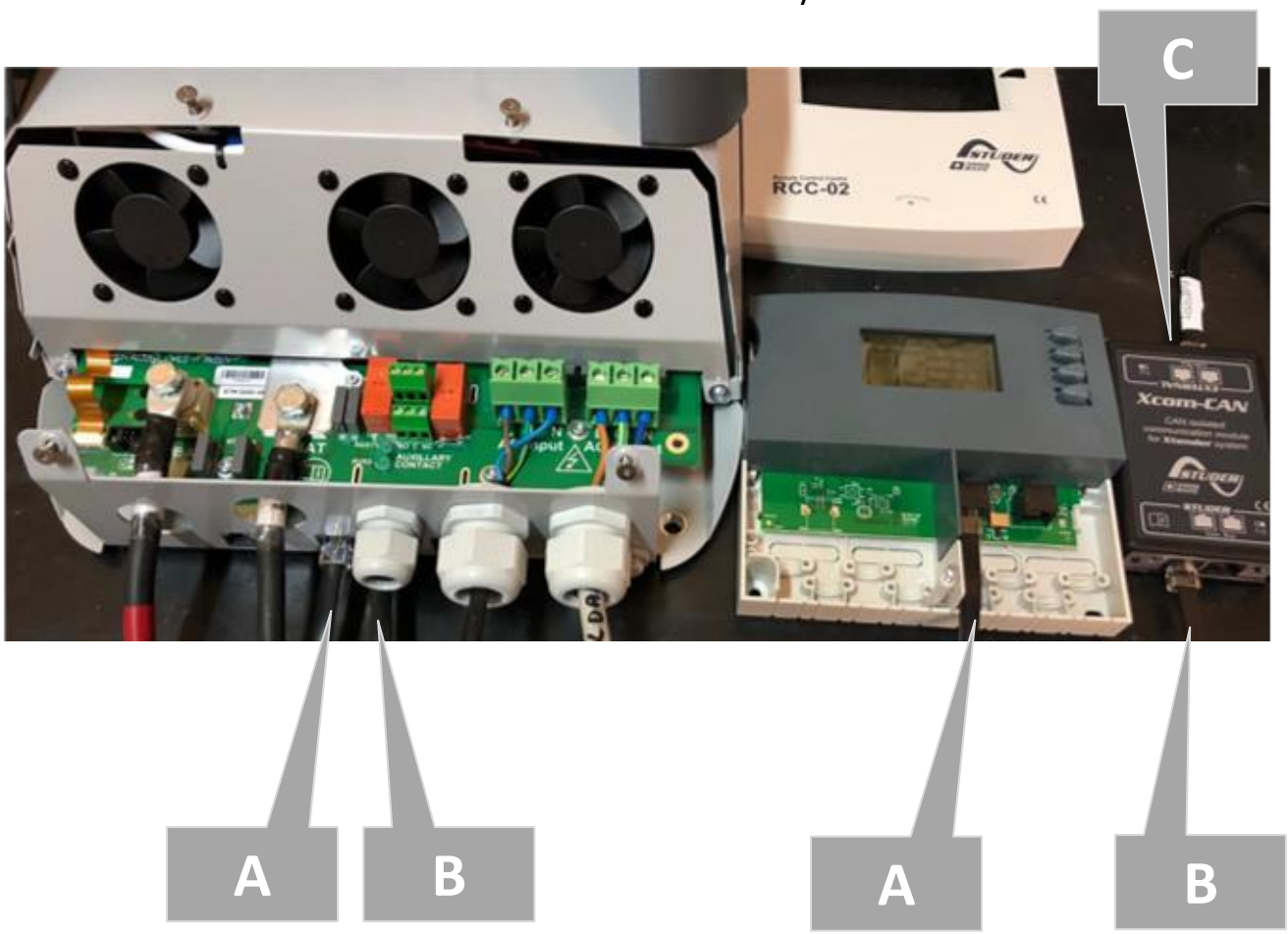
Overall Connection

Remove the plastic Cover from the bottom side of the Xtender Inverter and remove the front cover of the RCC-02 (1 screw)
Remove the back cover of the Xcom-CAN (2 back screws)

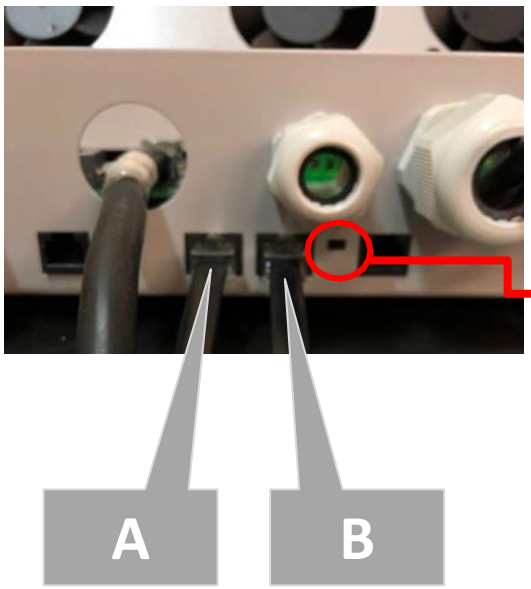
A- CAN Port 1 of the Inverter (Connects to RCC-02 Port-1)

B- CAN Port 2 of the Inverter (Connects to Xcom COM Port-1)

C- CAN Port 1 of Xcom-CAN Connects to the battery CAN RJ45



Cabling of the devices

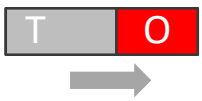


Xtender Bottom Side

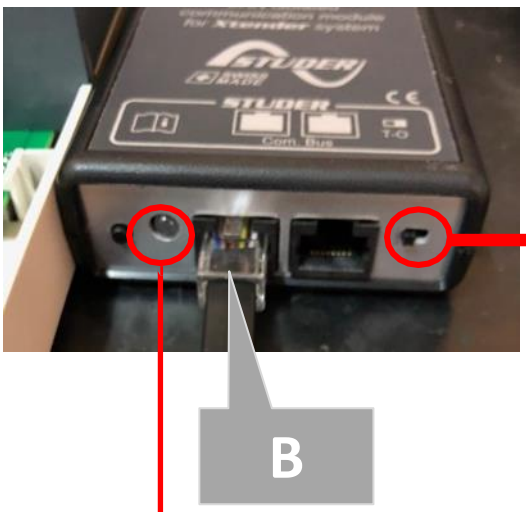
A- CAN Port 1 of the Inverter RJ45 Port

B- CAN Port 2 of the inverter RJ45 Port

Termination Switch to the right of the two RJ45 Ports



Set Switch to the right.

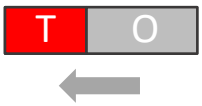


Xcom-CAN COM Bus Side

B- CAN Port 2 of the inverter to RG45 COM Port 1 of Xcom

COM Port 2 of Xcom remains empty

Termination Switch to the right of the two RJ45 Ports

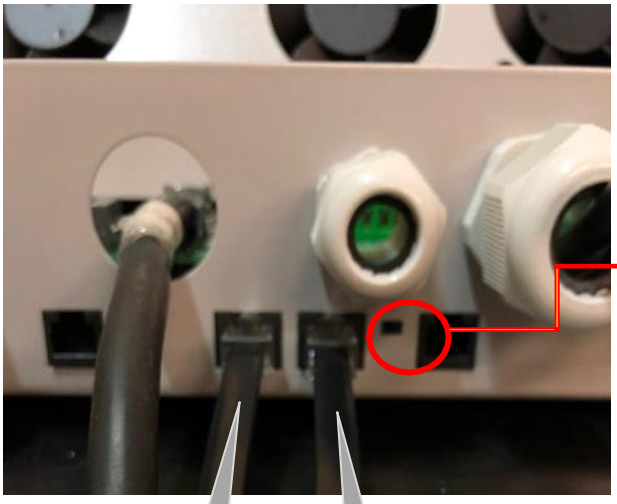


Set Switch to the left.

LED GREEN

- Make sure the LED blinks 2 times- interval and repeats.
- If the LED blinks Green + RED check the connection again because the communication is not correct.
- If the LED is RED the connection is wrong.

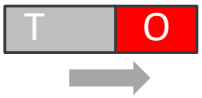
Cabling of the devices



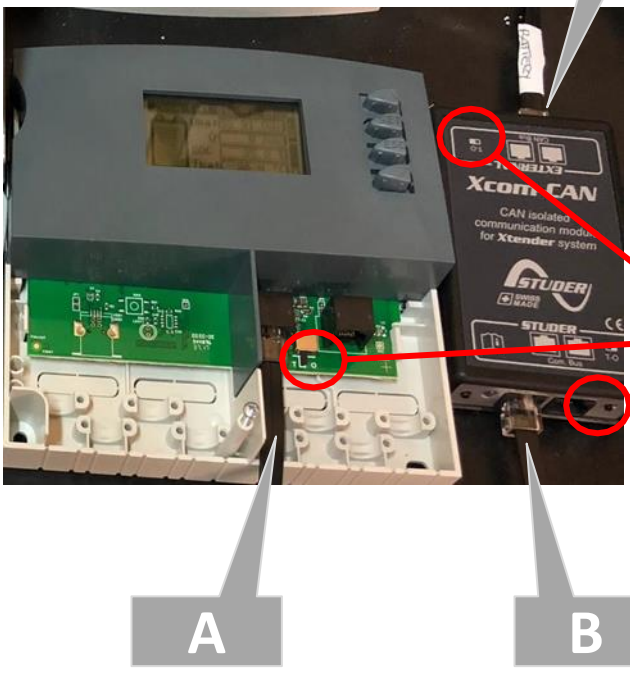
Overall Connection

A- CAN Port 1 of the Inverter RJ45 Port

B- CAN Port 2 of the inverter RG45 Port



Termination Switch to the right of the two RJ45 Ports

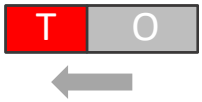


A- COM Port 1 of the RCC-02

**RCC-02 COM Port 2 is not used*

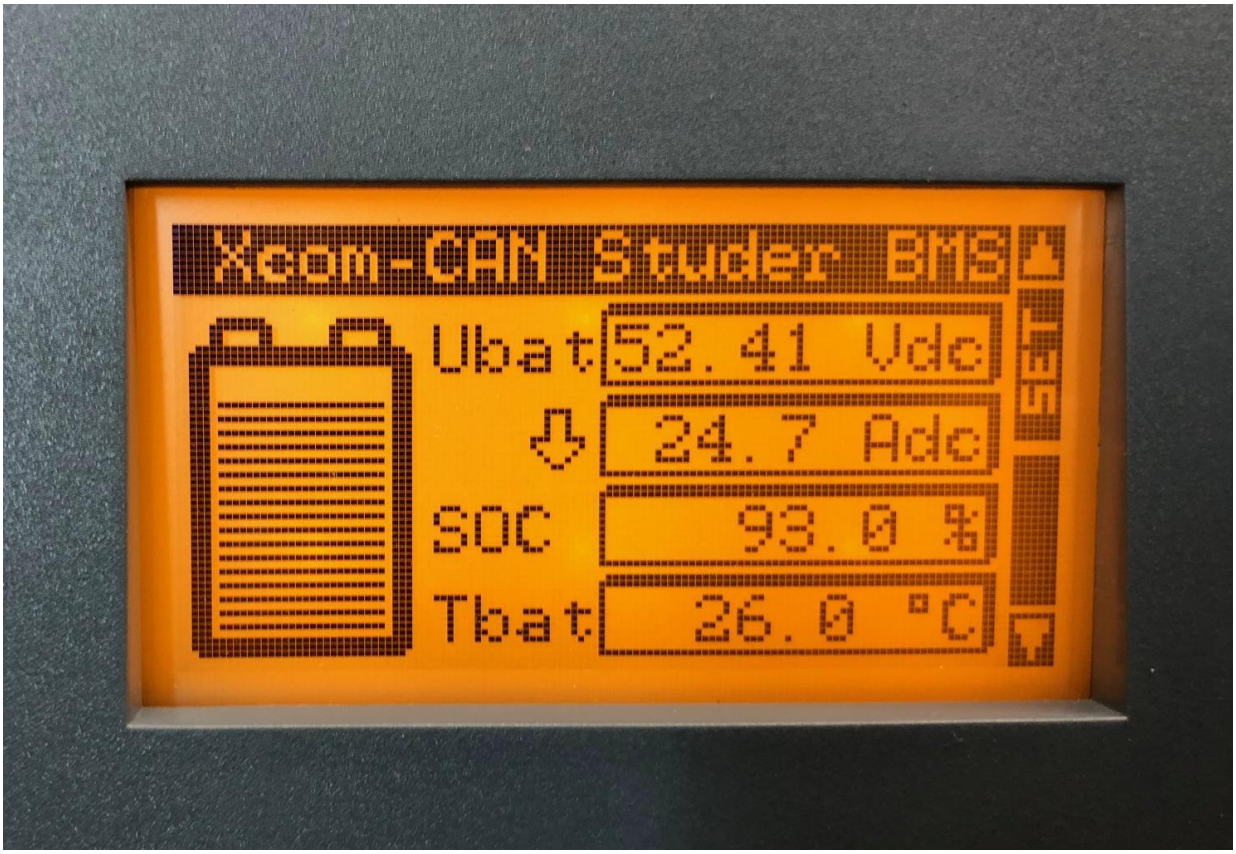
B- COM Port 1 of the Xcom (ComBus Side)

C- CAN Port 1 of the Xcom (CAN Side) Connected to battery CAN RJ45



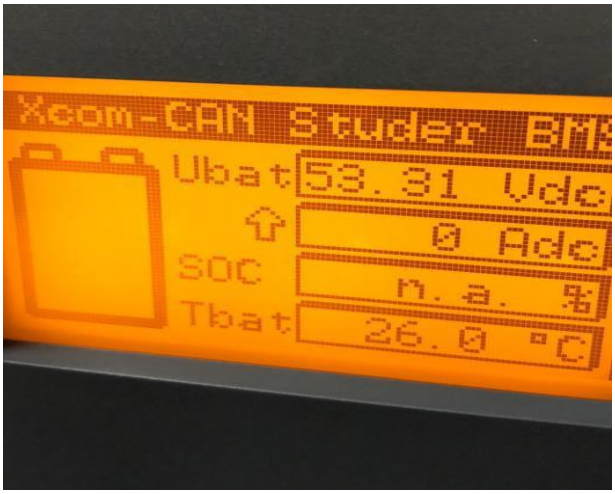
All termination switches are set to the left

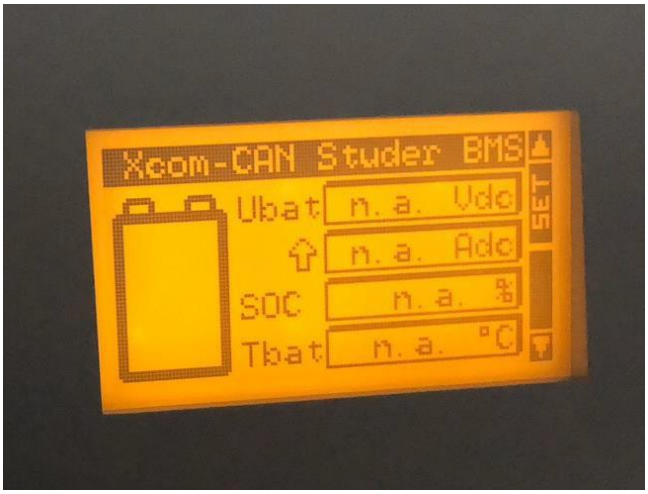
RCC-02 Battery Infos



RCC-02 must show the information as per the picture above

Communications Common Error





If the DIP switch are in the wrong position the RCC-02 display
Will show only limited battery information or N.A.

Once the communication is correct try to disconnect the CAN cable from the battery to the X-Com, must show a RED BACKGROUND
Reconnect the CAN cable and the RCC-02 Display must show the info 226 (communication restored, see pic. above)

4PRO4K

BATTERY OVERVIEW

Keep the battery OFF Press the ON/OFF button for 10 seconds and make sure that all the LED are OFF and measure the terminal output with a Volt meter.

No LED lights should be visible in when the battery is in OFF MODE status

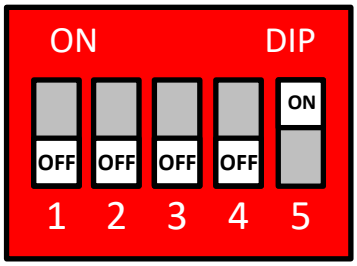
Make sure the output is ZERO Volts with a Voltmeter before operating on the battery terminal block

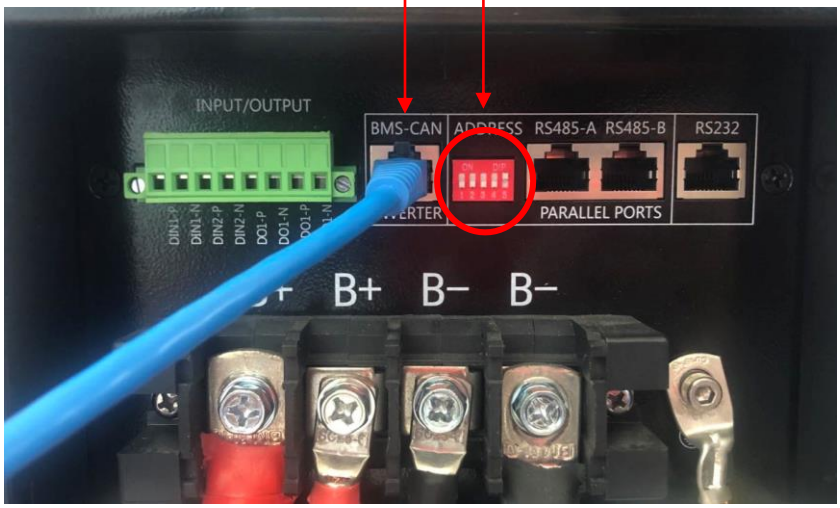
Cabling of the devices

4K4 PRO BATTERY BOTTOM SIDE CONNECTION

From the original position of the DIP switch,
move it as shown in the picture, 5th PIN enable the CAN In-Out comm

CAN /BMS PORT



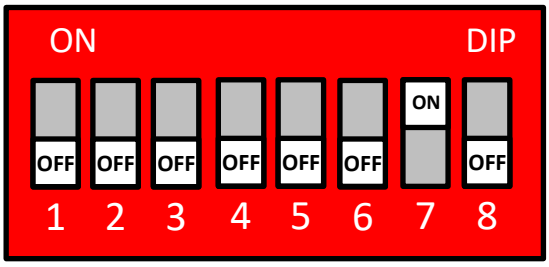


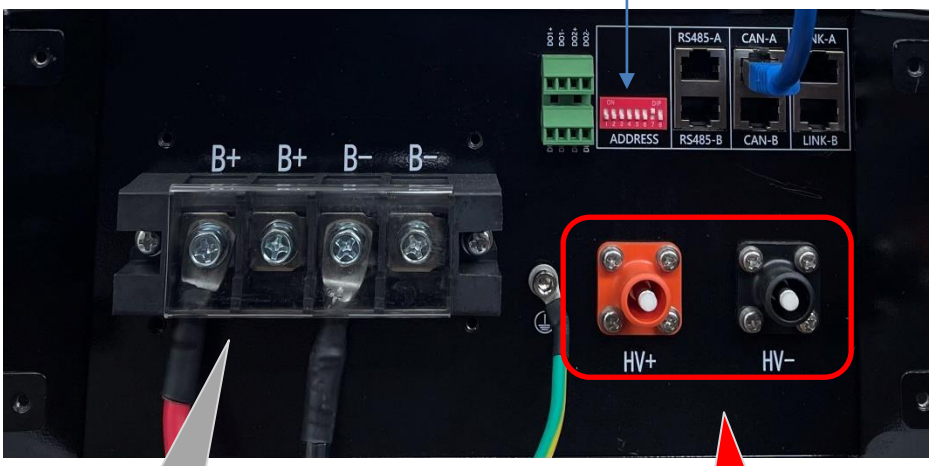
Attention: any action on the DIP Switch must be followed by a reset of the battery with a long press of the ON/OFF button


Xtender
XTM 4000-48
MULTIMODE POWER CENTRE

BATTERY BOTTOM SIDE CONNECTION

From the original position of the DIP switch,
move it as shown in the picture, 5th PIN enable the CAN In-Out comm





LOW VOLTAGE TERMINAL

HIGH VOLTAGE CONNECTION DO NOT USE WITH STUDER INVERTER