QUICK INSTALLATION GUIDE

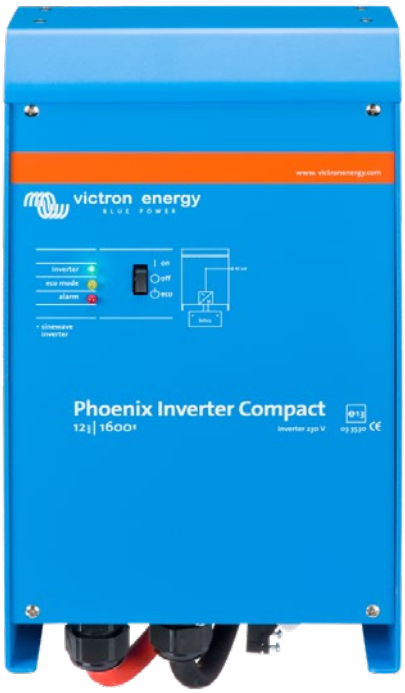
Lithium Series

Dual 48V 5.1kWh

+

Victron Energy Inverter

+



victron energy
BLUE POWER

1. Inverter configuration

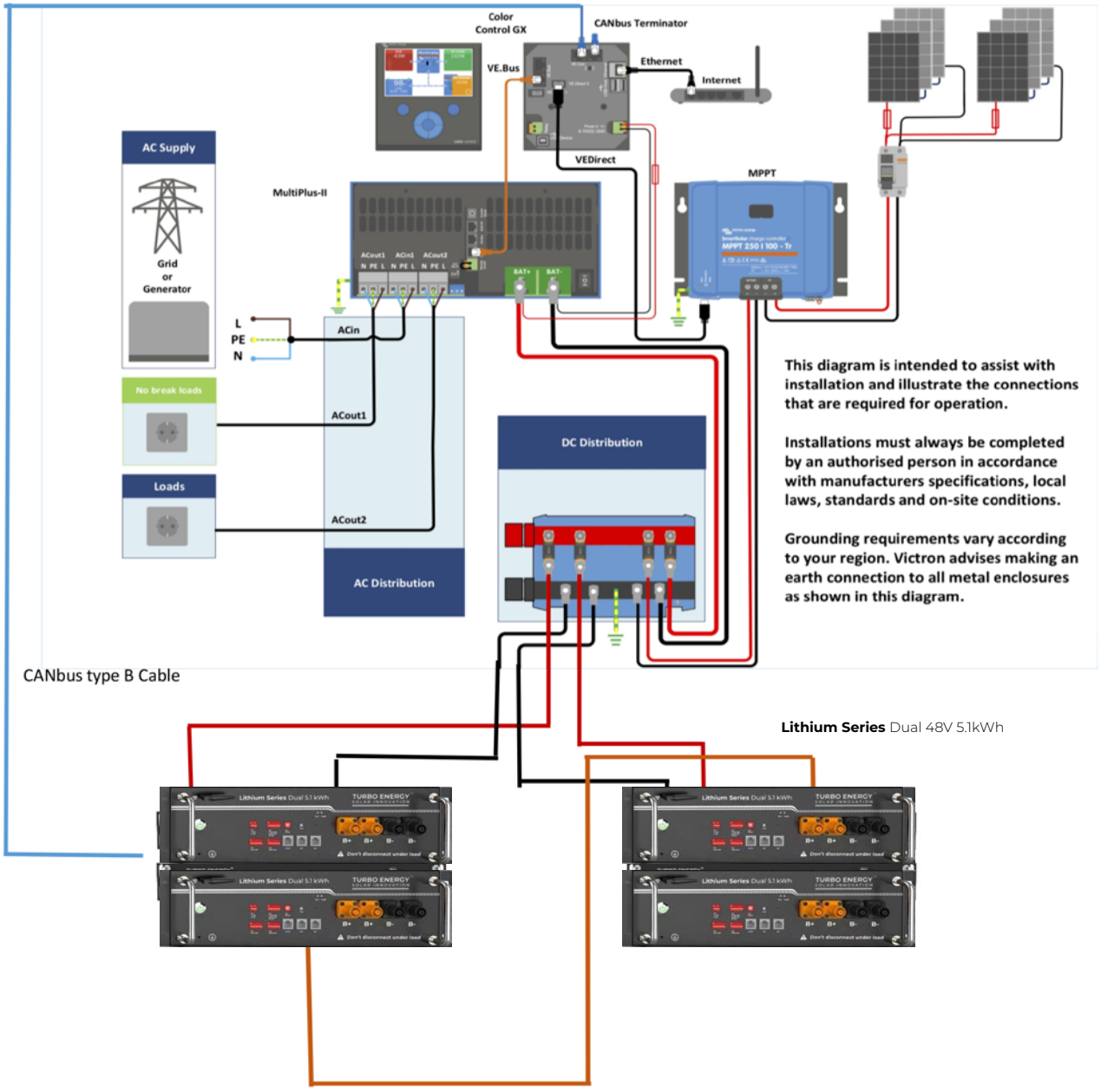
The configuration between the inverter and the battery is quite simple.

In fact, to facilitate the control and operation of the installation, a GX device is used: COLOR CONTROL GX, VENUS GX, CERBO GX.

The connection of the communication is made between the master battery and the Color Control, and from the Color Control to the inverter.

We can use the REGULADOR MPPT BlueSolar / SmartSolar (VE. Direct)

Underneath, a complete scheme of connection of all devices is shown.



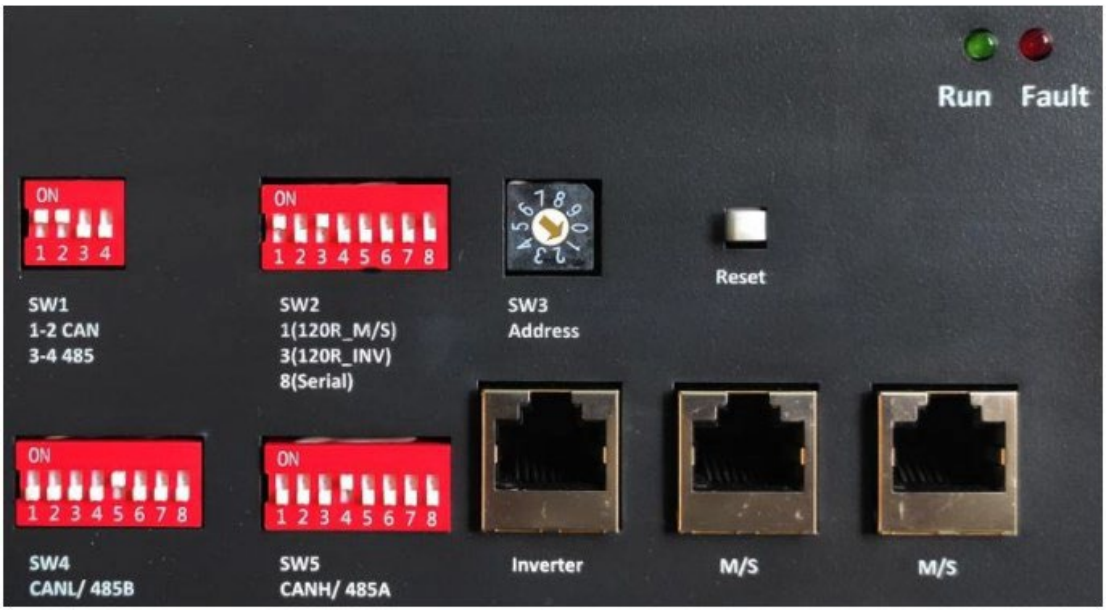
2. Battery On and Off

To turn on the battery, press the power button for a few seconds. The BMS will start working and the LED will light up.

To turn off the batteries, press the power button for more than 5 seconds.

3. Setting Lithium Series Dual 48V 5.1 kWh

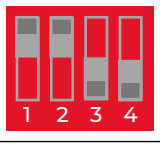
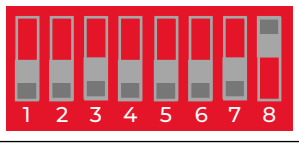
Each module has 5 DIP switches (SW1, SW2, SW3, SW4, and SW5) that will be set differently based on system requirements, battery connection, and inverter.



SW1 is for the communication protocol with the inverter. If the CAN protocol is used, 1 and 2 must be ON.

SW4 and SW5 are for communication with the inverter and depend on the communication cable and protocol of the inverter.

If a pin-to-pin cable is used, the DIP settings are as follows:

Protocol	SW1	SW4	SW5
CAN	 1=ON 0=OFF		

3.1. DIPS FOR CONNECTION ON PARALLEL

SW2 and SW3 are for communication between batteries.

Connected Battery Number	Group	SW2 Parallel connect	SW3 Address Set
1	-		
2	Primary		
	Sub		
3	Primary		
	Sub1		
	Sub2		

Connected Battery Number	Group	SW2 Parallel connect	SW3 Address Set
4	Primary		
	Sub1		
	Sub2		
	Sub3		
5	Primary		
	Sub1		
	Sub2		
	Sub3		
	Sub4		

Connected Battery Number	Group	SW2 Parallel connect	SW3 Address Set
6	Primary		
	Sub1		
	Sub2		
	Sub3		
	Sub4		
	Sub5		

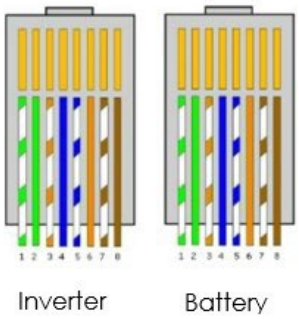
Connected Battery Number	Group	SW2 Parallel connect	SW3 Address Set
7	Primary		
	Sub1		
	Sub2		
	Sub3		
	Sub4		
	Sub5		
	Sub6		

Connected Battery Number	Group	SW2 Parallel connect	SW3 Address Set
8	Primary		
	Sub1		
	Sub2		
	Sub3		
	Sub4		
	Sub5		
	Sub6		
	Sub7		

Make sure DIP switch SW2 is selected correctly. If the battery is connected in parallel mode, but DIP8 is in the ON position, a serious and dangerous fault may occur. On the other hand, if the battery is connected in serial mode, but SW2 DIP8 is in the OFF position, a serious and dangerous fault may occur

4. Wired configuration

The cable needed to make the connection is the RJ45. This is a cable made up of 8 smaller cables each with a different color configuration.
A standard pin-to-pin cable with an RJ45 connector should be used.



For the connection between the inverter and the battery, the RJ45 cable will be connected to the “Inverter” port of the battery, and to the CAN port of the inverter