

QUICK INSTALLATION GUIDE

Lithium Series 48V 5.1kWh Slim

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VICTRON INVERTER

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1. INVERTER VICTRON 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.**



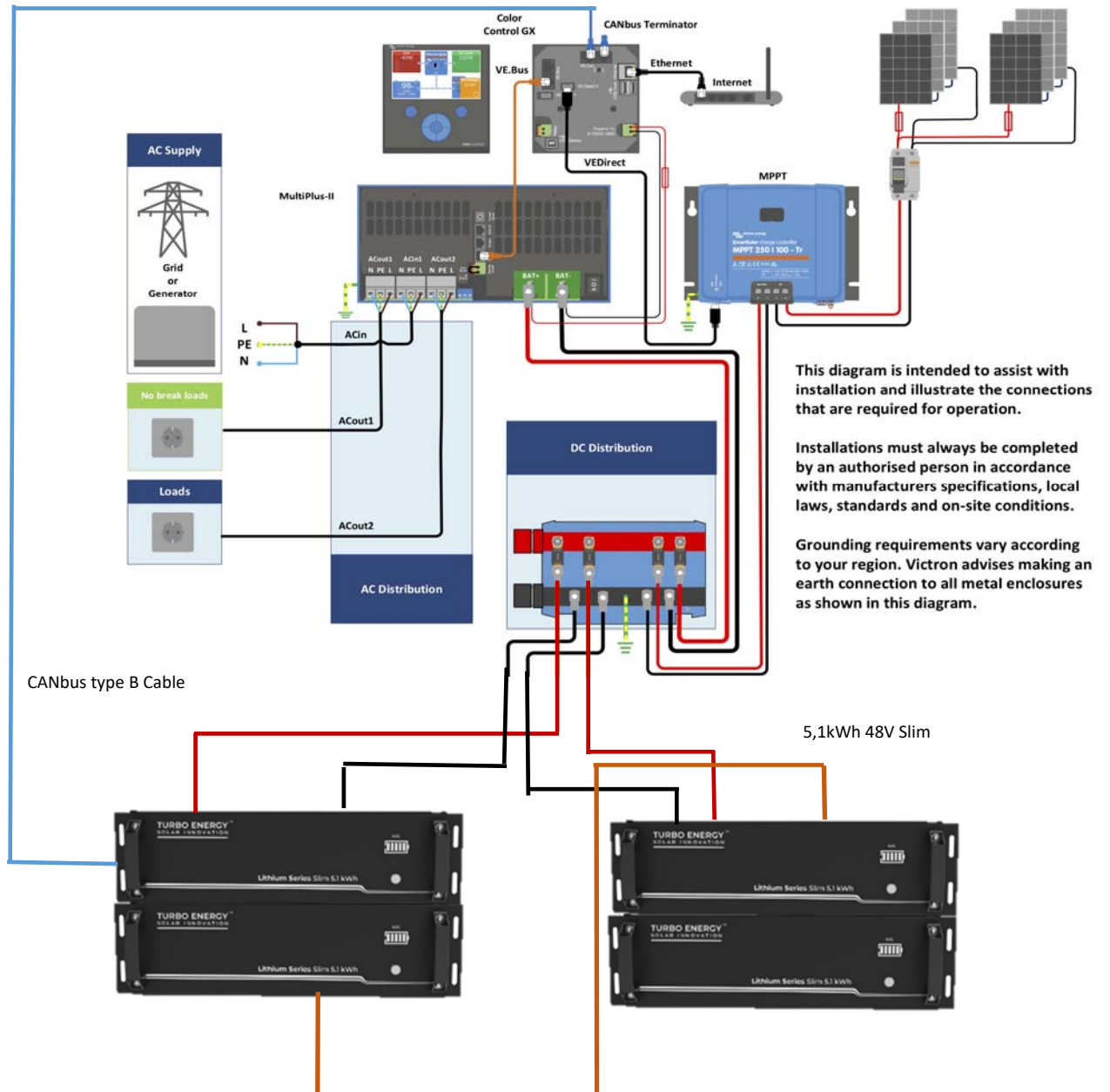
The connection of the communication is made between the master battery and the Color Control, and from the Color Control to the inverter.



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

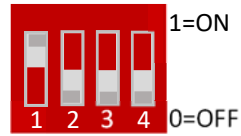


Underneath, a complete scheme of connection of all devices is shown.



2. Configuration Lithium Series 48V 5.1 kWh Slim

Each module has 4 DIP (Dual Inline Package) switches that will be configured differently depending on the number of batteries to be connected



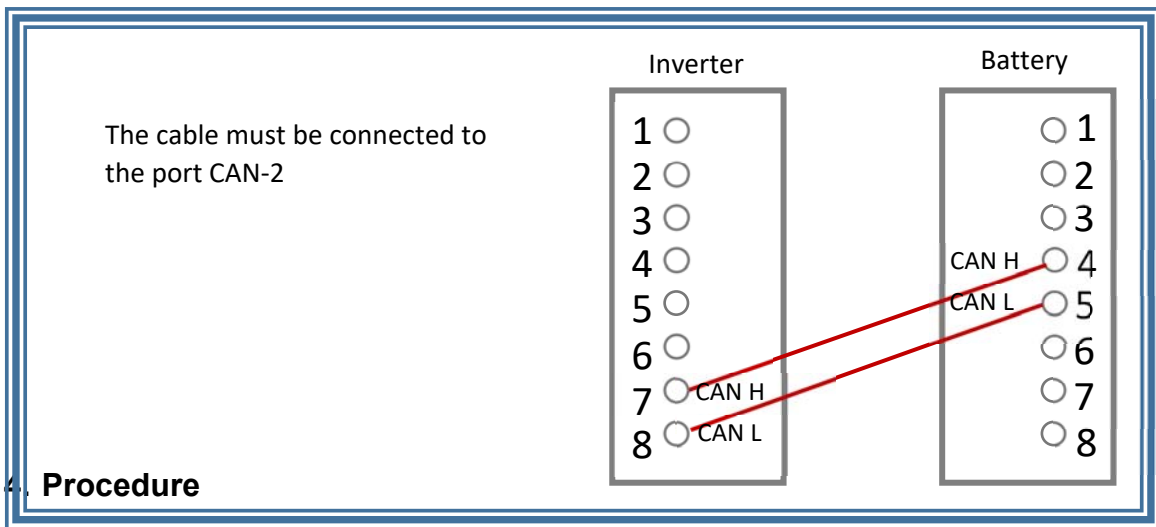
They are configured according to the binary code, starting with the master.

Address	Dial switch position				Explain
	#1	#2	#3	#4	
1	ON	OFF	OFF	OFF	Pack1/Master
2	OFF	ON	OFF	OFF	Pack2
3	ON	ON	OFF	OFF	Pack3
4	OFF	OFF	ON	OFF	Pack4
5	ON	OFF	ON	OFF	Pack5
6	OFF	ON	ON	OFF	Pack6
7	ON	ON	ON	OFF	Pack7
8	OFF	OFF	OFF	ON	Pack8
9	ON	OFF	OFF	ON	Pack9
10	OFF	ON	OFF	ON	Pack10
11	ON	ON	OFF	ON	Pack11
12	OFF	OFF	ON	ON	Pack12
13	ON	OFF	ON	ON	Pack13
14	OFF	ON	ON	ON	Pack14
15	ON	ON	ON	ON	Pack15

3. Wired configuration



The cable needed to make the connection is the RJ45. It is a special cable that is composed of 8 smaller cables each with a different color configuration. The battery includes inside the connection cable with the inverter. The cable is included inside the battery box.



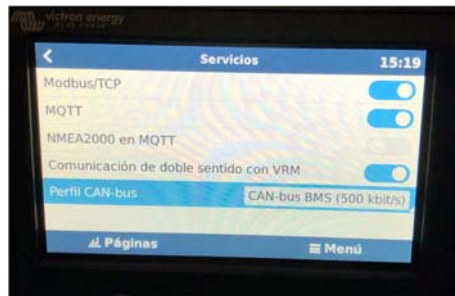
We need to check the firmware of the equipment that we are going to use.

- The minimum device version GX is v2.42
- The minimum version of the inverters MULTIPLUS / MULTIGRID / QUATTRO is 422.
- The minimum version of the VE. Direct MPPT is 1.29

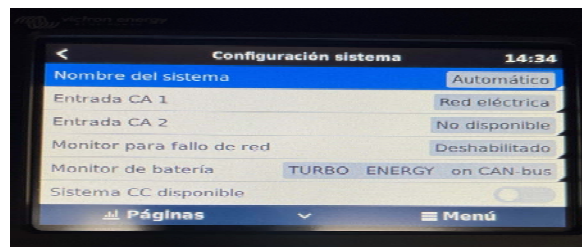
We connect the CAN wire of communication from the port CAN IN to COLOR CONTROL GX to its input VE CAN, besides adding the TERMINADOR RJ4 in the other VE CAN port.

5. GX Device Setting

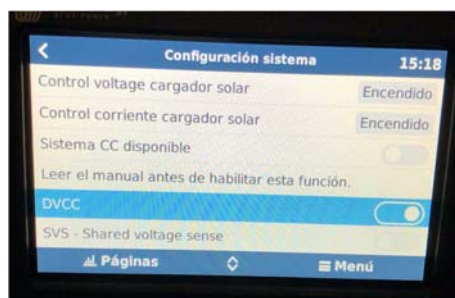
1. GENERAL → Services → CAN-BUS Profile → CAN-BUS BMS (500Kbit/s)



2. SYSTEM SETTING → TURBO ENERGY battery on CAN-BUS



3. CONFIGURACIÓN DEL SISTEMA → Service → DVCC ON

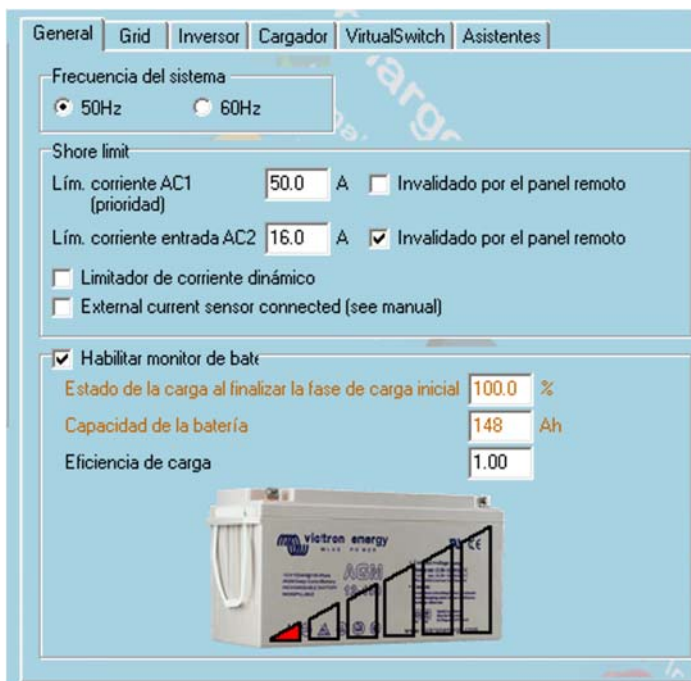


4. CONNECTION VERIFICATION → We can check that connection between Battery and Venus has been successful when the option Turbo-
e appears in the general menu.



6. VE CONFIGURE 3 Settings

Select the capacity in function of the number of batteries. $50\text{Ah} * N^{\circ}$ of batteries



Select the Charge current in function of the number of batteries. $25^a * N^{\circ}$ of modules

General | Grid | Inversor | Cargador | VirtualSwitch | Asistentes

Habilitar cargador

Entrada CA débil

Parar si tiempo de bulk excesivo

Tipo de batería:

Sin valor predeterminado correspondiente

Lithium batteries

Modo de almacenamiento

Utilice la ecualización (curva para baterías de tracción de placas tubulares)

Curva de carga:

Tensión de absorción: V

Tiempo de absorción repetida: Hr

Tensión de flotación: V

Intervalo de absorción repetida: Días

Corriente de carga: A

Tiempo de absorción: Hr

General | Grid | Inversor | Cargador | VirtualSwitch | Asistentes

Tensión de salida del inversor: V

Relé de puesta a tierra

PowerAssist

Factor aceleración corr. aux:

Desconexión por baja tensión CC: V

Reinicio por baja tensión CC: V

Prealarma por baja tensión CC: V

shut-down on SOC

SOC low shut-down: %

SOC low restart: %

Do not restart after short-circuit (VDE 2510-2 safety)

habilitar AES

Iniciar AES cuando la carga sea inferior a: W

Detener AES cuando la carga sea W superior al nivel de inicio

Tipo de AES:

Onda sinusoidal modif

Modo de búsqueda