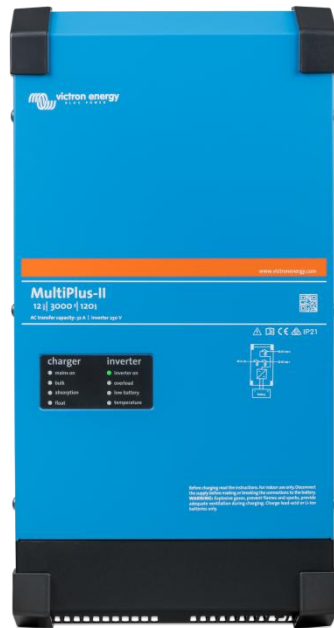# Victron MultiPlus-II 12V / Compact 12V series inverter Integration Guide with

Pytes E-BOX 12100 battery

Connect the communication cable

A custom ethernet cable is needed for the communication between Pytes E-BOX battery and Cerbo GX.

The Communication cable for connecting Cerbo GX to the VE CAN port end should be Pin 7 CAN-H , Pin 8 CAN-L .

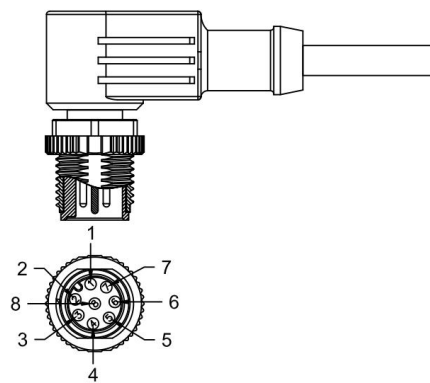| Pin	1	2	3	4	5	6	7	8
Function							CAN-H	CAN-L

Pin assignment of Victron MultiPlus-II 12V / MultiPlus Compact 12V series inverter.

Definition CAN Port Pin for Pytes E-BOX 12100 BMS is as follow.

Figure 1 com port Aviation M12

The com port connected to inverter is Aviation M12 .

Cable Pinout		
Pin Number	Name	Colour
1	GNDS	Orange
2	GNDS	Black
3	NC	Green
4	CAN-H	Red
5	CAN -L	Blue
6	12VS	Yellow
7	RS485-A	Purple
8	RS485-B	Brown

1. Connect the **VE.Bus** port of the inverter and **VE.Bus** port Cerbo GX by standard ethernet cable.

2. Plug in the battery end into the **Com port** (aviation M12) of the Pytes E-BOX 12100 battery and plug in the inverter end into the **BMS-CAN(**or **VE.CAN)**of the Cerbo GX as shown.
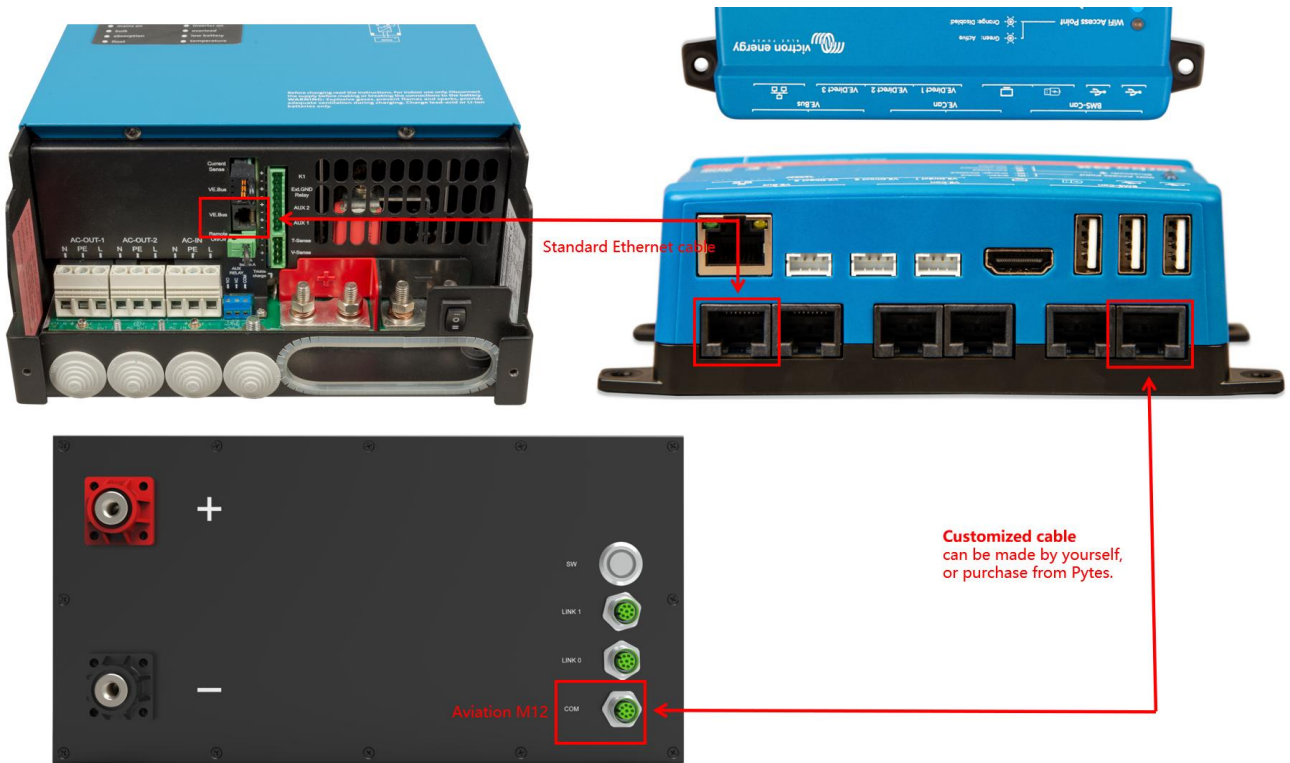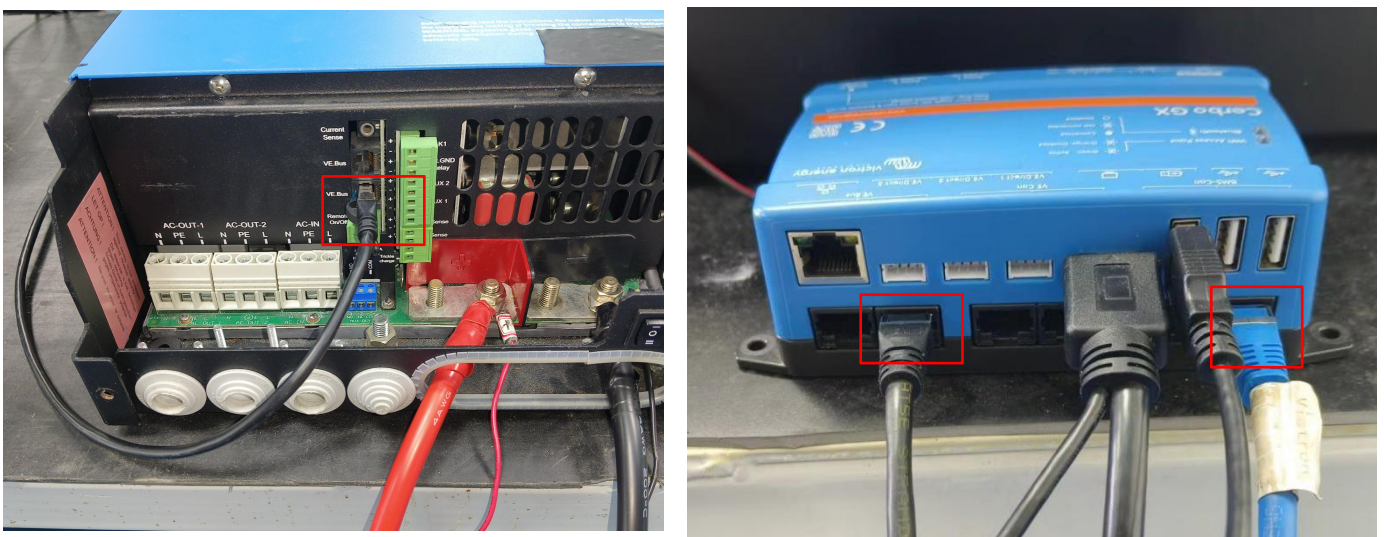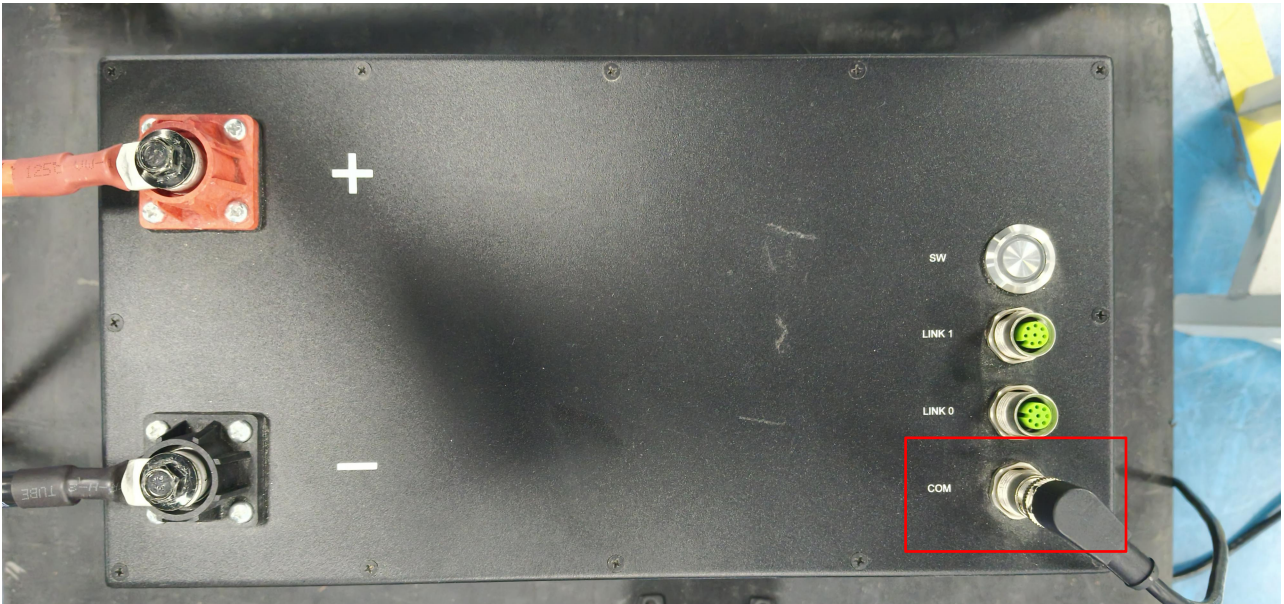

Figure 2 Communication cable connection

3. The real picture is as shown:

Connect the power cable

1. Open the front housing of the Victron, connect the red and black cables to the inverter DC connector,and connect power supply cable of Cerbo GX, as shown .

2. At the other end of the cable, connect to the battery as shown Pic

Set up the Victron inverter

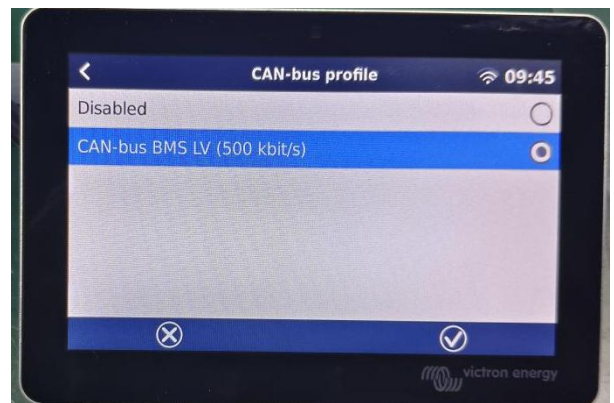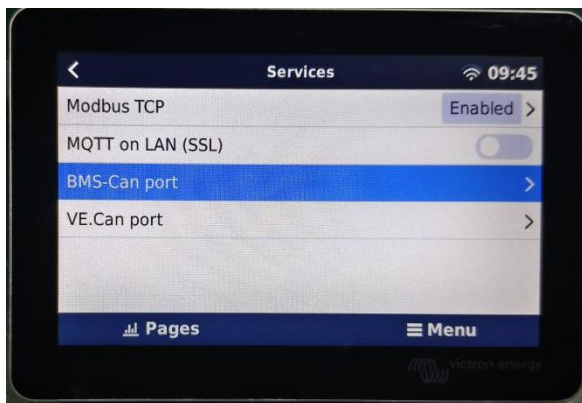1. Press the switch on the inverter to enter settings mode.
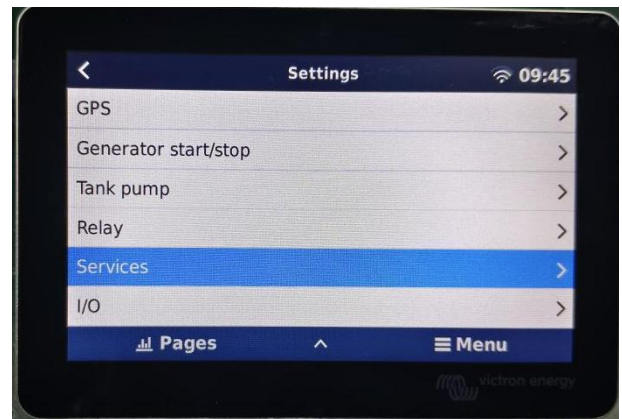

Figure 3.1. Victron Inverter Switch

Figure 3.2 Cerbo GX

2. As shown in the Figure 3.3, follow below steps to set up inverter.

➢ Press Settings and down to the Services.

➢ Select the **BMS CAN port** to **CAN-bus BMS LV (500 kbit/s)**.

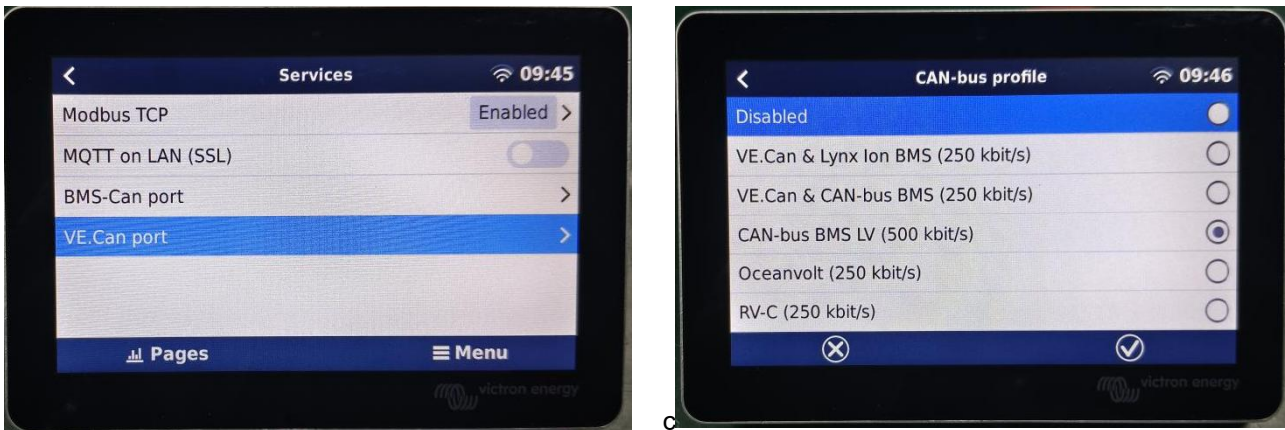➢ Select the **VE.CAN port** to **CAN-bus BMS LV (500 kbit/s)**.

Figure 3.3 Cerbo GX Setup

3. As shown in the Figure 3.4, check device connection information.

If the battery and inverter communicate successfully, screen will display "**PYTES**."
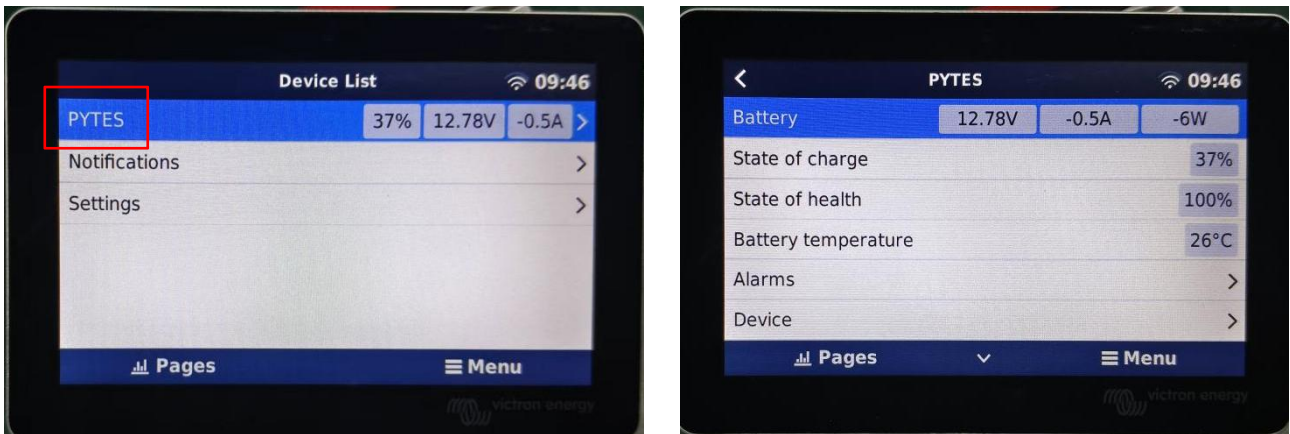

Figure 3.4 battery info

4. Check DVCC information ,set Controlling BMS to **PYTES** ,as shown in the Figure 3.5.
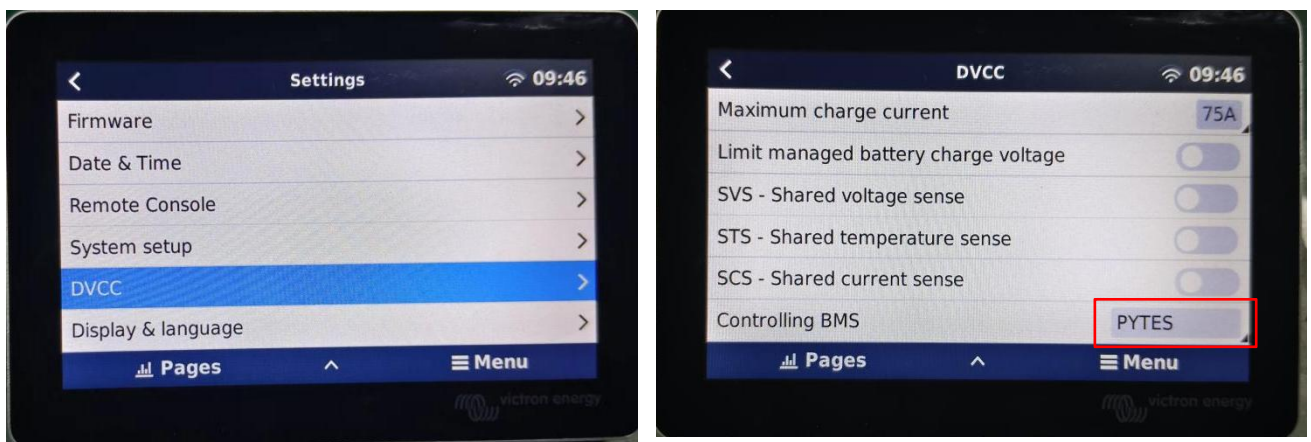

Figure 3.5 DVCC Setting

Please refer to the <u>Victron Energy Inverter</u> for more settings.