



**victron energy**  
BLUE POWER

**Pytes**

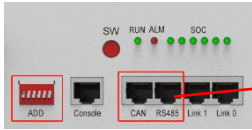



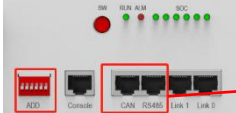







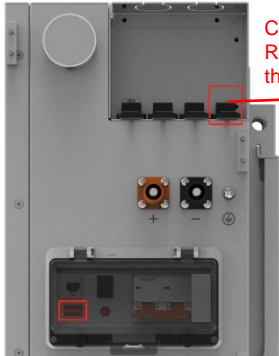
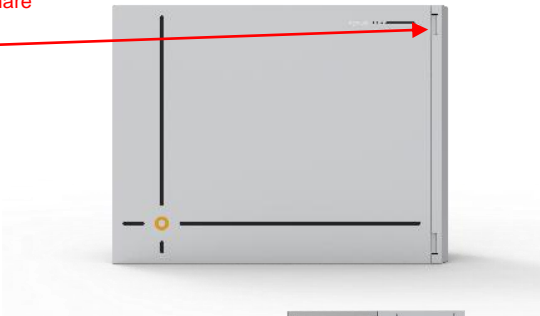
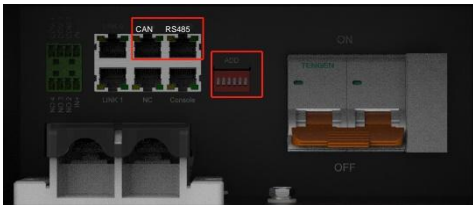
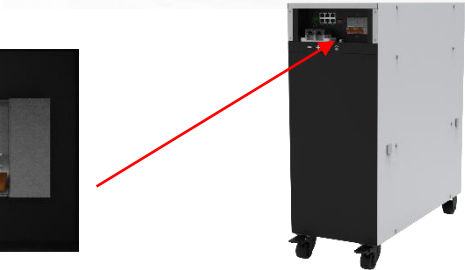
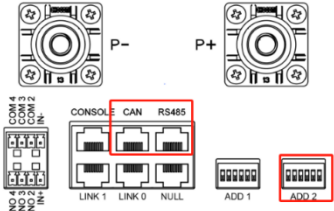
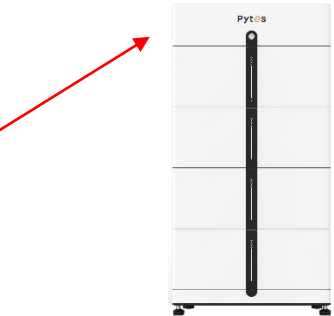
# Pytes Low Voltage Battery Series

## Configuration Guide with Victron Inverter

Inverter compatible models: Multiplus / Quattro Series



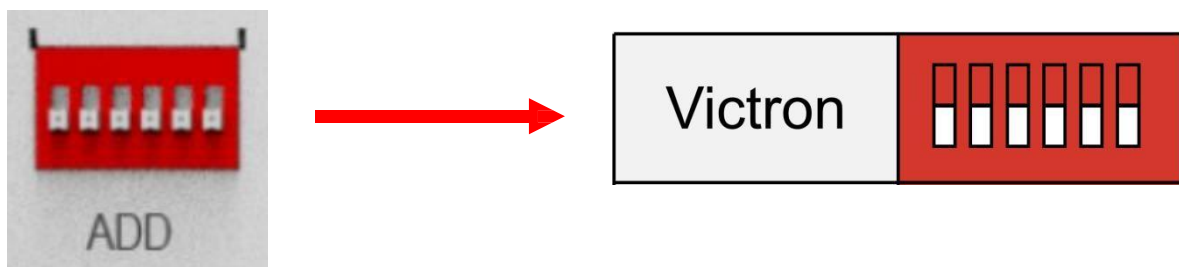
## Pytes low voltage battery interface overview

No.	Item Name	Product Picture
1	E-BOX 4850-C	 
2	E-BOX 4850G	 
3	E-BOX 48100R-C	 
4	V5°	 
5	V5°a	 
6	V5°a Plus	 
7	V10a & V12 & V16	 <p>COM Port RS485/CAN share the same port</p> 
8	V15	 
9	Pi LV1	 

## 1. Set the Dip Switch

Only need to set the **master battery** Dip Switch to the corresponding position as shown. The Dip Switch (ADD) location varies for each battery model; please refer to the respective user manual for details.

Note: If multiple Pi LV1 stacks are connected in parallel, please refer to the [Dip Switch setting guide](#) for the Pi LV1.



## 2. Select the correct the communication cable between battery and Inverter

Select the correct the communication cable and the correct pinout of communication port on the battery according to the Pin Definition List. If the pin definitions of the battery and inverter align, a standard ethernet cable can be used. Otherwise, the cable needs to be adjusted.

Pin Number	Battery Pin Definition	Inverter Pin Definition
1	RS485B	
2	RS485A	
3	GND	
4	CAN-H	
5	CAN-L	
6	GND	
7	RS485A	CAN-H
8	RS485B	CAN-L

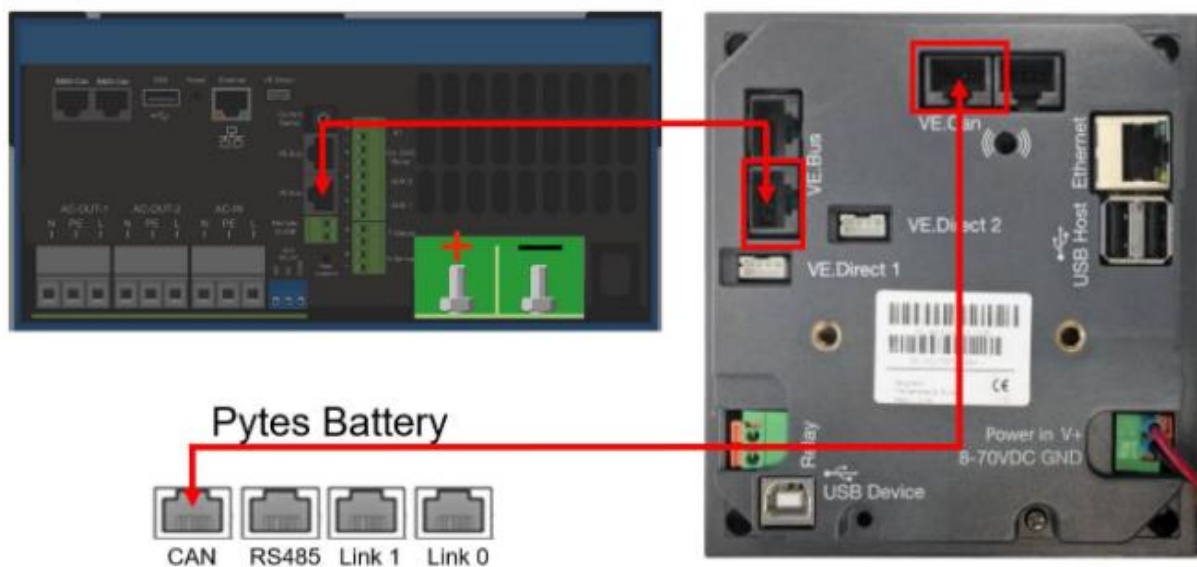


Pin Definition List

### 3. Cable Connection

1. Connect the communication cable between **Victron communication center** and battery.

First determine the CAN or RS485 port which to plug on the battery according to the **Pin Definition List** above. Please refer to Inverter user manual to determine which port to plug on the inverter user manual to set up the communication.

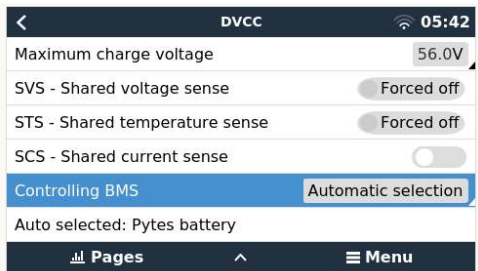
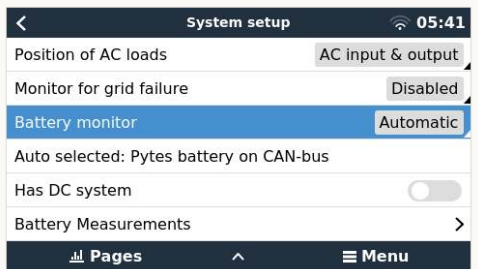
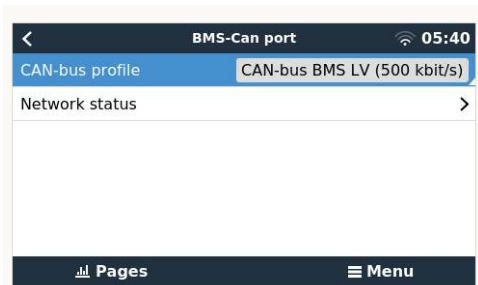


2. Connect the power cables between battery and Inverter or the common busbars.

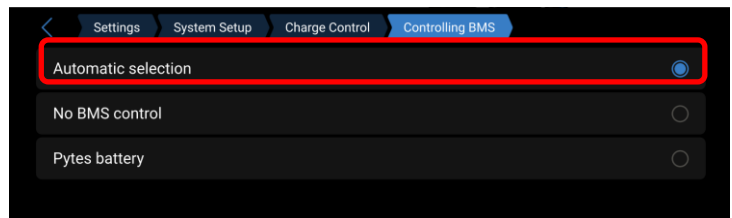
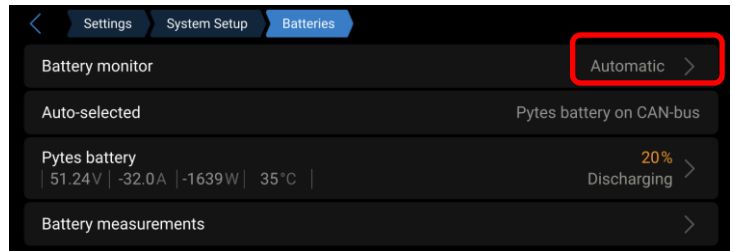
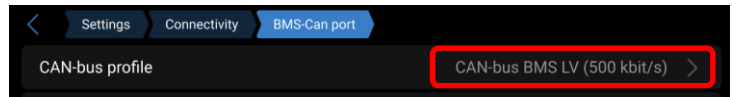
Different Inverter model and battery model may have different type power terminal, please refer to inverter and battery user manual to choose the power cable.

Then Turn on the System. The startup procedure please refer to Battery and inverter Manual. Suggested to Install a **circuit breaker** between the battery and inverter. And Wait all batteries turned on and turn on the breaker to avoid the rush current from some inverter model.

## 4. Program the inverter



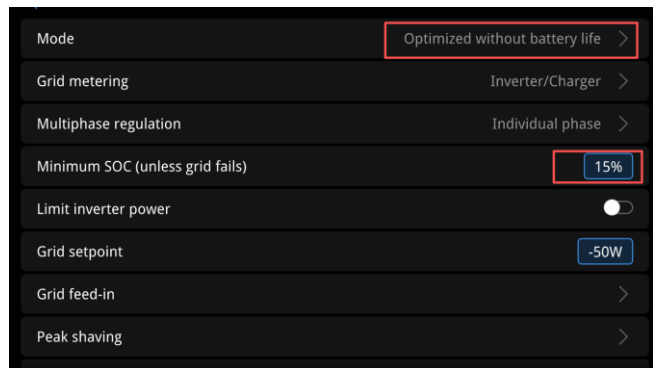
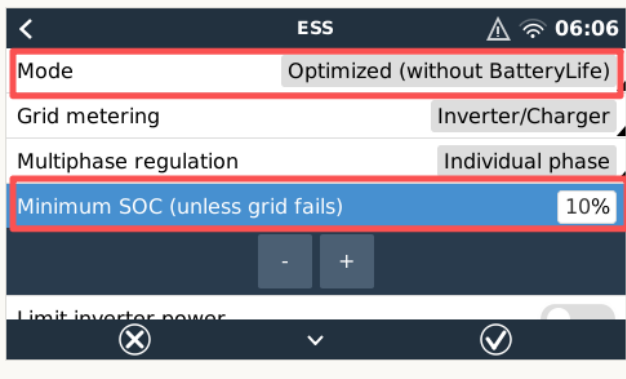
Classic UI



NEW UI

Close loop Setting Table

Item	Option
CAN-bus Profile (VE. CAN or BMS-CAN Port)	CAN-bus BMS (500 Kbit/s)
Battery Monitor	Automatic
Controlling BMS	Automatic Selection



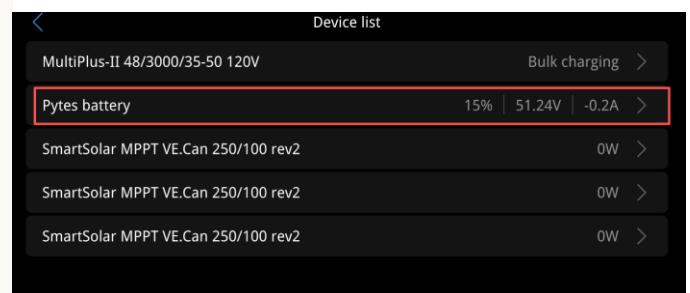
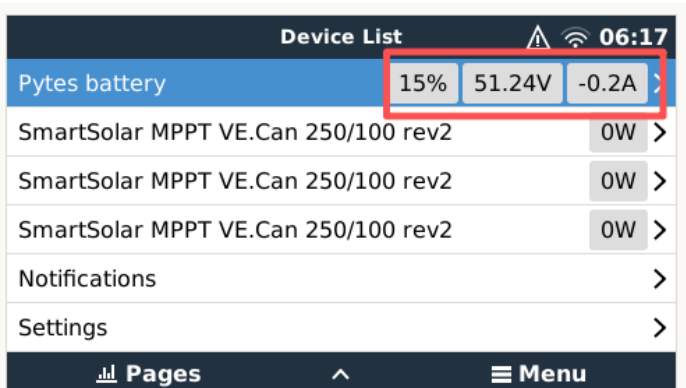
### Other Battery Related Setting table

Item	Option
ESS Assistant	Refer to <a href="#">Victron Guide</a> Minimum SOC: 10% or Higher
VE Configure	Optimized without Battery Life
Max Charge Current	Battery related Setting refer to <a href="#">Pytes Guide</a> Set the value as required, but do not exceed the battery <b>recommended continuous rated current.</b>

Note:

1. Please refer to the battery's user manual for its current and capacity specifications.
2. Configure charge/discharge start-stop strategies and other related setting based on your actual requirements.

## 5. Confirm the Communication is Successful



If you can see the battery detailed parameters like **SOC, Temperature** in the device list , etc. It means the communication is successful.