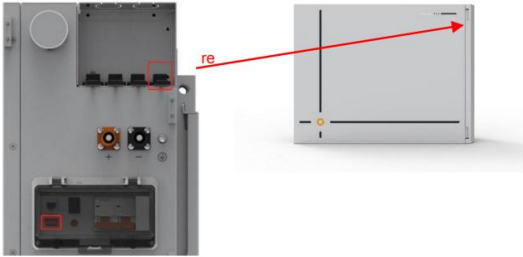
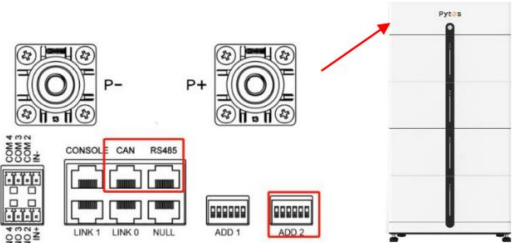


Installation and configuration manual With Victron Energy

Pytes Lithium Battery with Victron Multi/Quattro Series

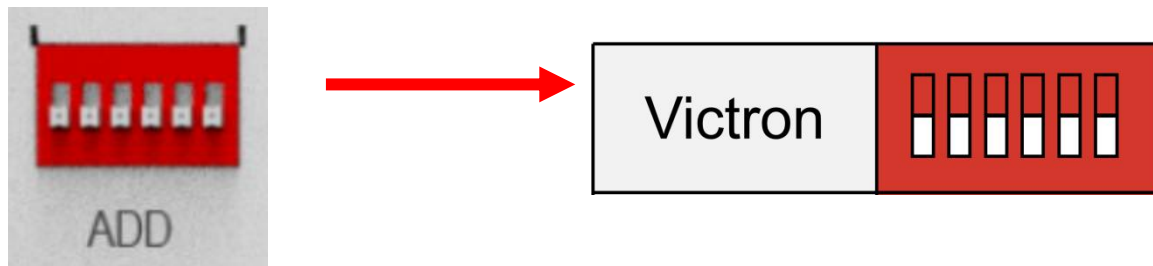


Pytes low voltage battery interface overview

No.	Item Name	Product Picture
1	E-BOX 4850-C	
2	E-BOX 4850G	
3	E-BOX 48100R-C	
4	V5°	
5	V5°α	
6	V5°α Plus	
7	V10	
8	V15	
9	Pi LV1	

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.



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

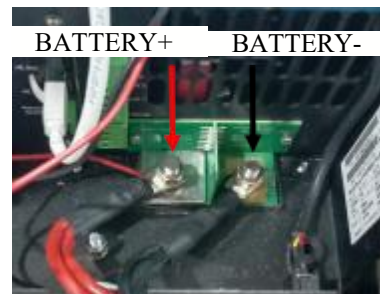
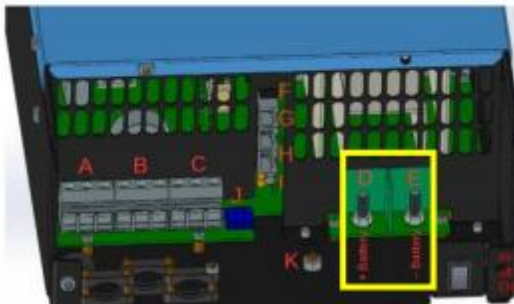
1. Power Cable Connection

Step.1

Open the front housing of the Victron Energy Inverter/Charger.

Step.2

Connect the red and black cables to the inverter DC connector as shown in Pic 1.1



Pic 1.1

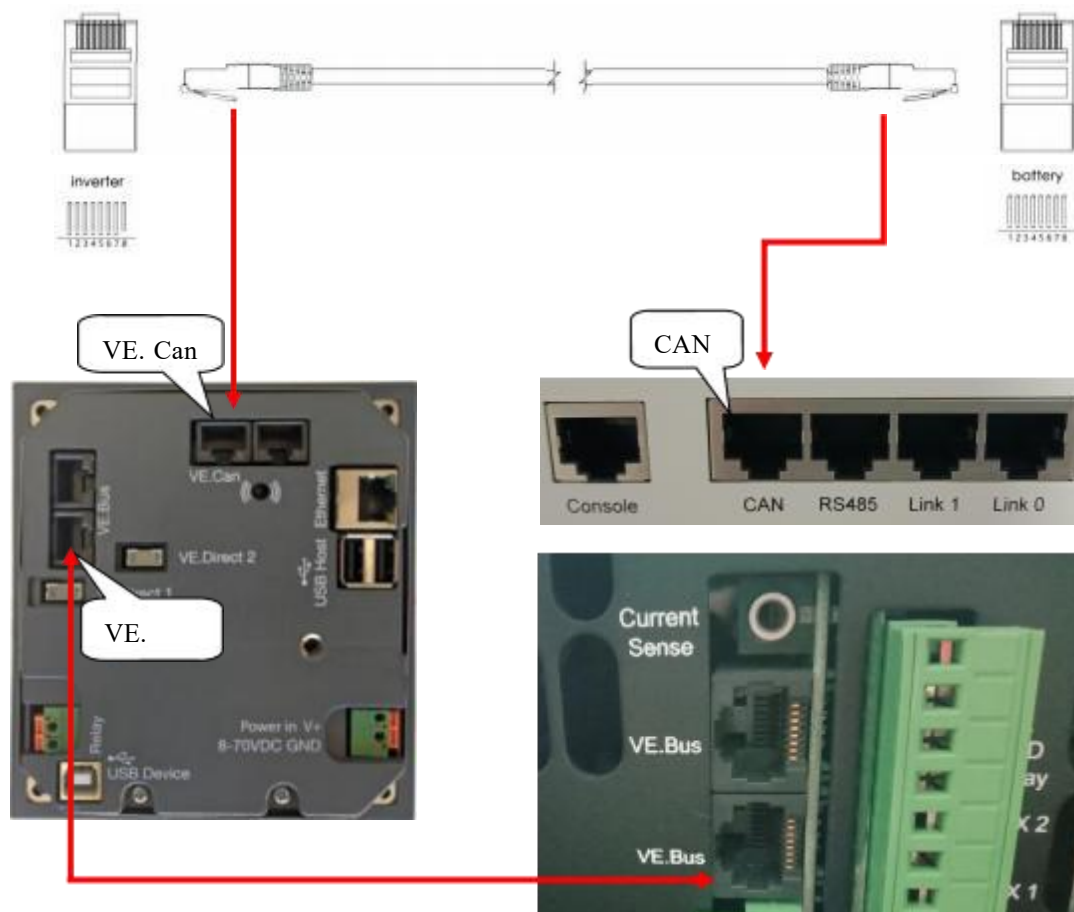
Step.3

At the other end of the cable, connect to the battery.

2. Communication Cable Connection

Insert inverter end of the CAN cable into the controller at VE.Can.
Insert battery end of the CAN cable into the battery at CAN.(Check page 2) (Ensure the correct sequence of wires inside the CAN cable).

Insert VE.Bus cable two ends respectively into the inverter and the controller. as shown in pic 2.1.



Pic 2.1

3. Start up the System

Start up the battery.

4.CAN-bus connection Setting

※**CAUTION:** If you want more details about the batteries settings, please check the operating manual of battery.

Step1.

Check the inverter indicator on and the controller screen lights on as shown in pic 4.1 and 4.2.



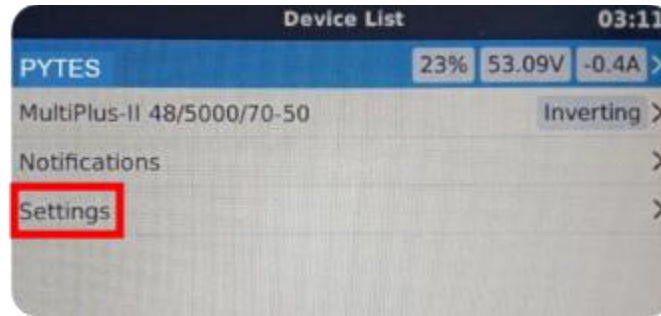
Pic 4.1



Pic 4.2

Step2.

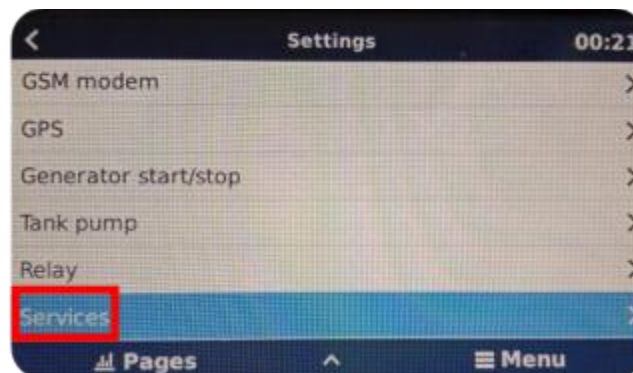
Firstly, press Settings and down to the Services at the bottom line as shown in 4.3.and 4.4.



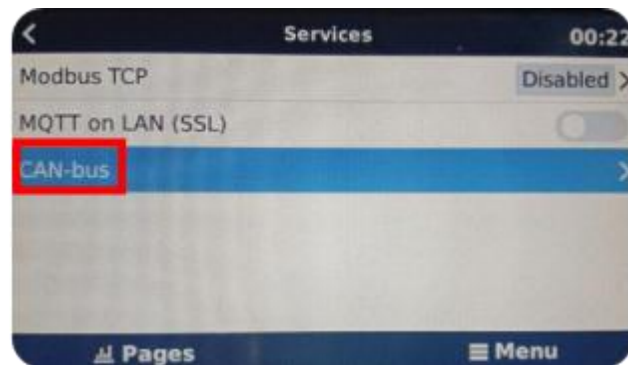
Pic 4.3

Next, choose the CAN-bus line as shown in 4.5

Then, choose the CAN-bus BMS (500kbit/s) as shown in 4.6.



Pic 4.4



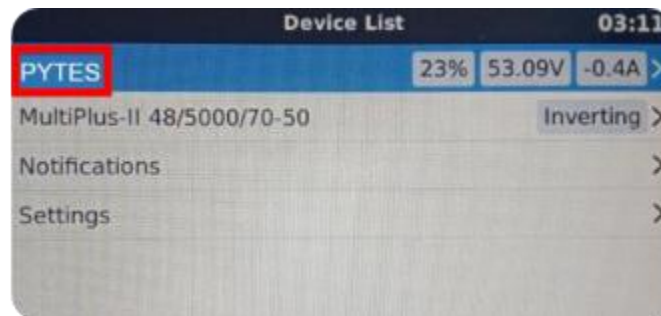
Pic 4.5



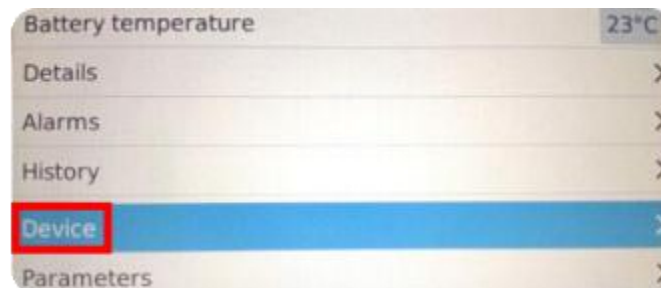
Pic 4.6

Step3.

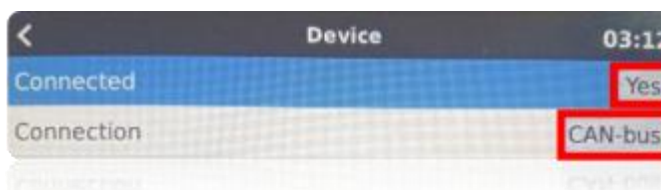
Check device connection as shown in pic 4.7 4.8 4.9.



Pic 4.7



Pic 4.8

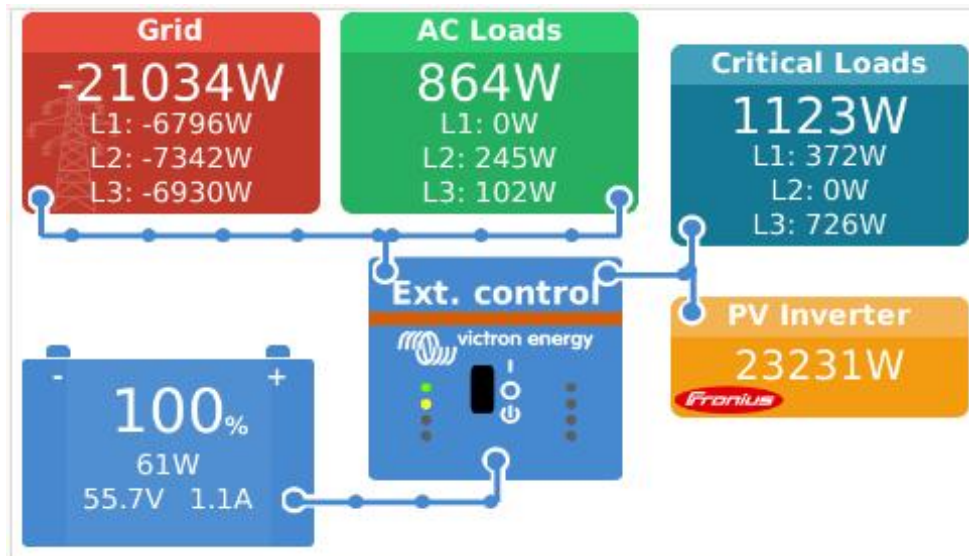


Pic 4.9

5. setting the minimum State of Charge

Minimum SOC need to be set up in the VRM system or Cerbo GX. The setup steps are as follows.

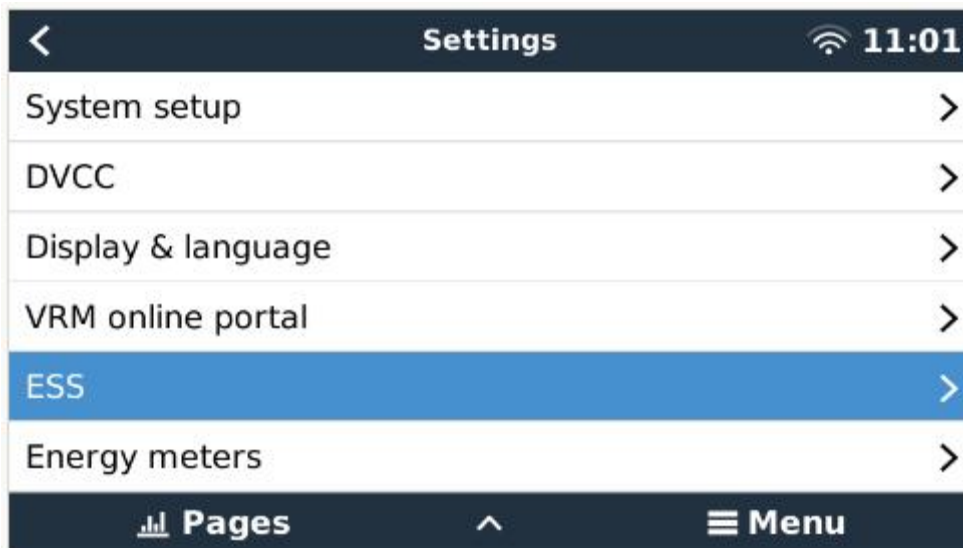
1. Click enter, into menu page.



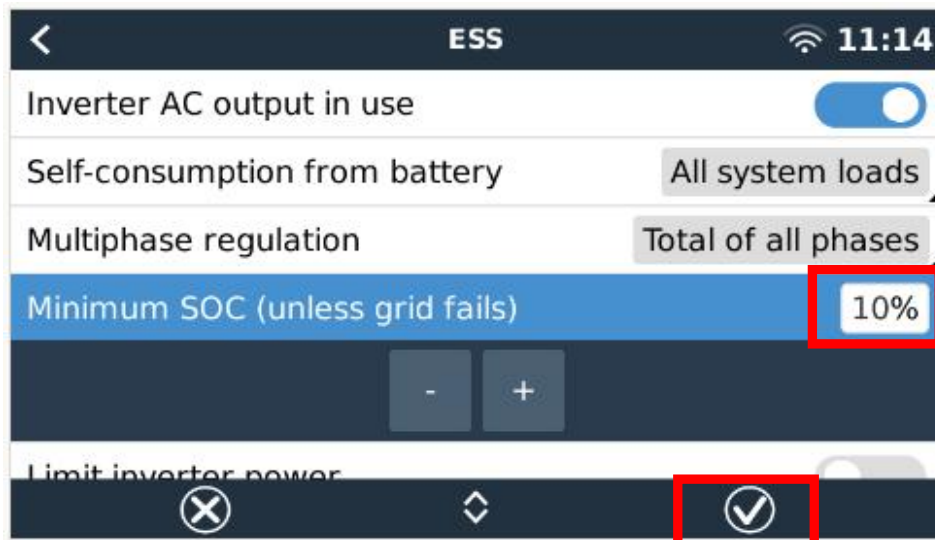
2. Click Setting.

Device List				11:01
Grid meter		-19134W	>	
PYTES	100%	55.88V	-4.9A	>
Quattro 48/15000/200-2x100		Bulk	>	
Victron	Manual	EV disconnected	>	
Notifications			>	
Settings			>	
Pages		Menu		

3. Click ESS.



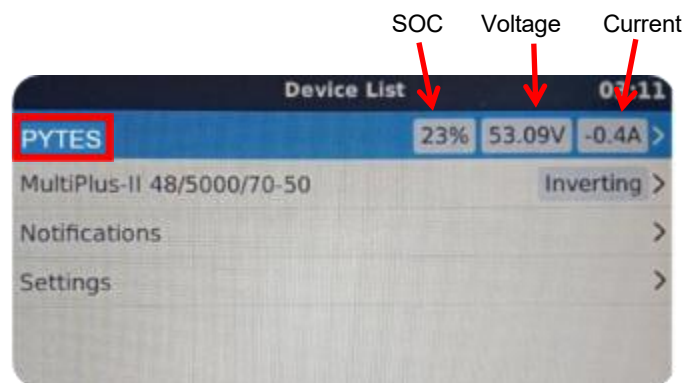
4. Click Minimum SOC, set it to 10%, and save.



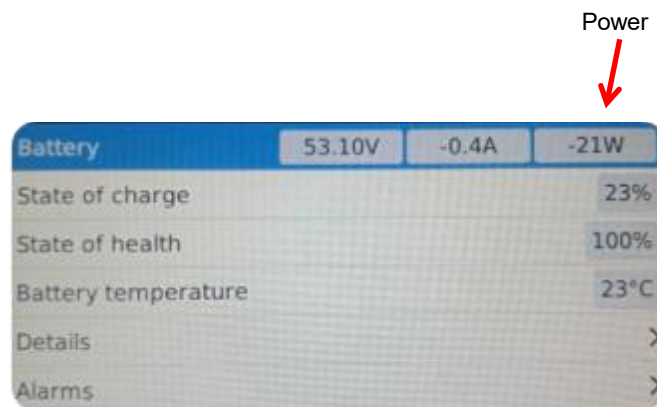
5. Check out the Battery Parameters

Firstly, check the battery basic parameters: SOC, Voltage and Current on the PYTES line as shown in pic 5.1.

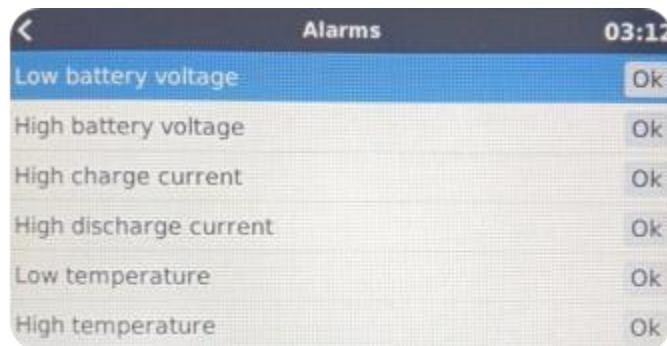
Next, go into PYTES, check more battery details, as shown in 5.2 and 5.3.



Pic 5.1



Pic 5.2



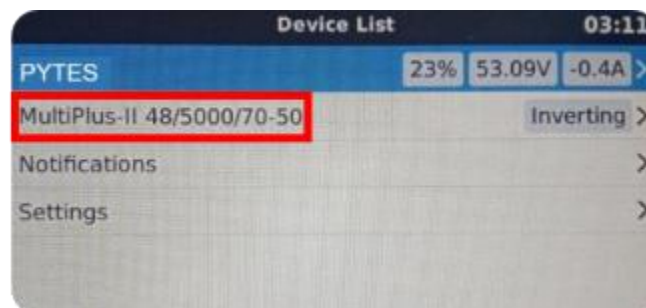
Pic 5.3

6. Check out the Inverter Parameters

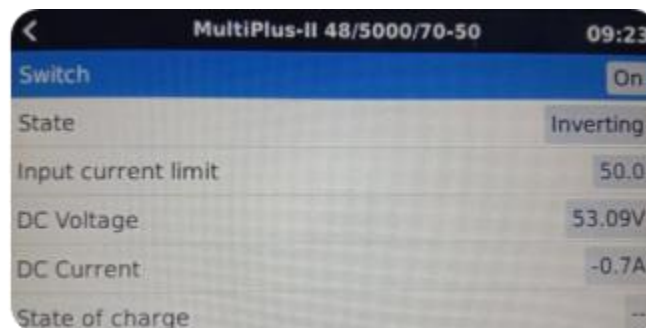
Step.1

Enter MultiPlus-II 48/5000/70-50 as shown in pic 6.1.

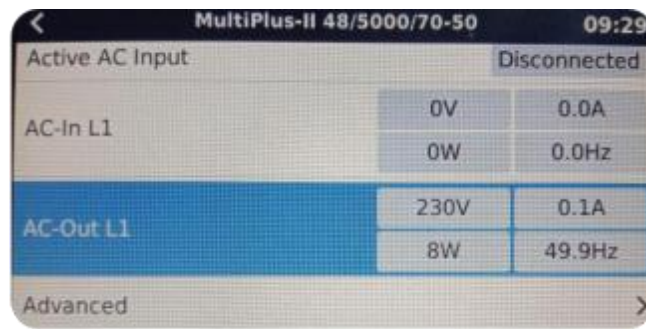
Check out the inverter Switch, AC output as shown in pic 6.2 and 6.3.



Pic 6.1



Pic 6.2



Pic 6.3

Step.2

Check the device connection as shown in pic from 6.4.and 6.5.



Pic 6.4



Pic 6.5

7.System Monitoring

※ **CAUTION:** If you want more details about system monitoring , please check the operating manual of inverters.