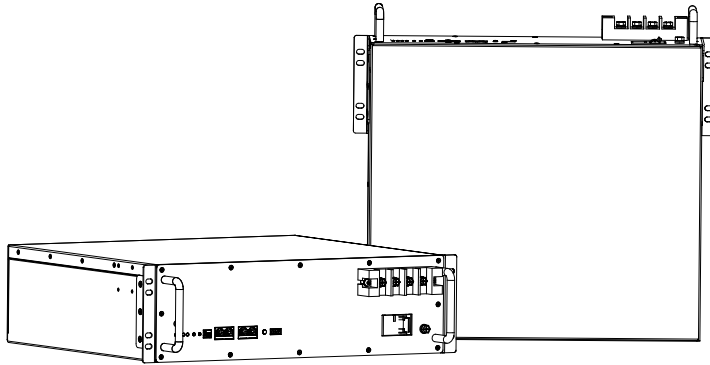


# Rack Li-ion Battery--Victron--Setup

## User's Guide

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Rev 1.1  
7-05-2023



### Battery and VICTRON Setup

#### Check List:

- 51.2V100Ah Rack Li-ion Battery
- Power cable
- Communication cable
- Victron Cerbo GX device

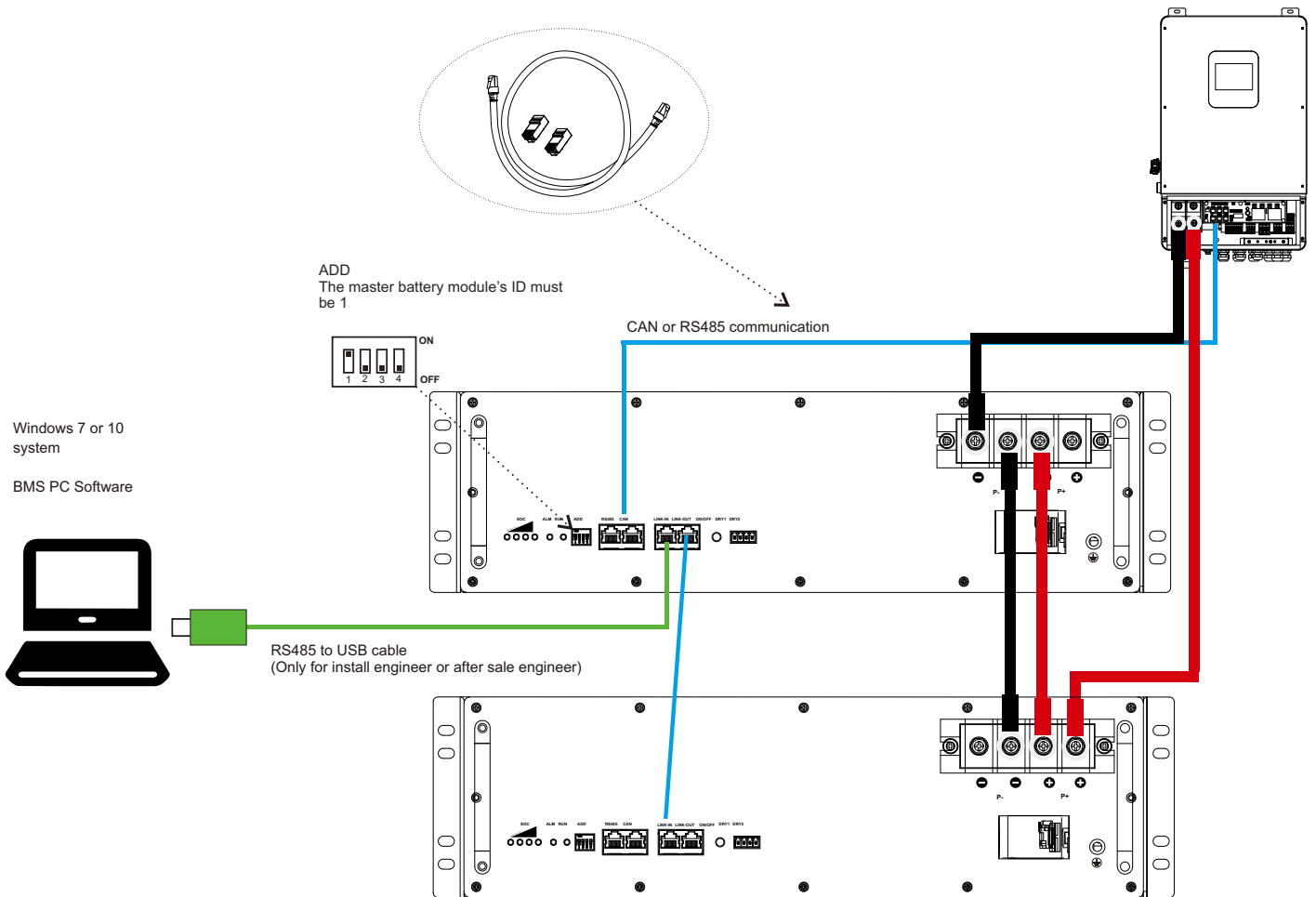
#### Step 1 : Cable connect in inverter

Keep both device and battery completely off.

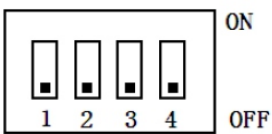
Connect power cable and comm cable to Cerbo GX device first.

Note: Comm cable has label on, make sure the device goes to battery , device side to the VE.CAN (or BMS.CAN) side, battery side to the battery CAN side.

# System cable connection



## ADD Switch



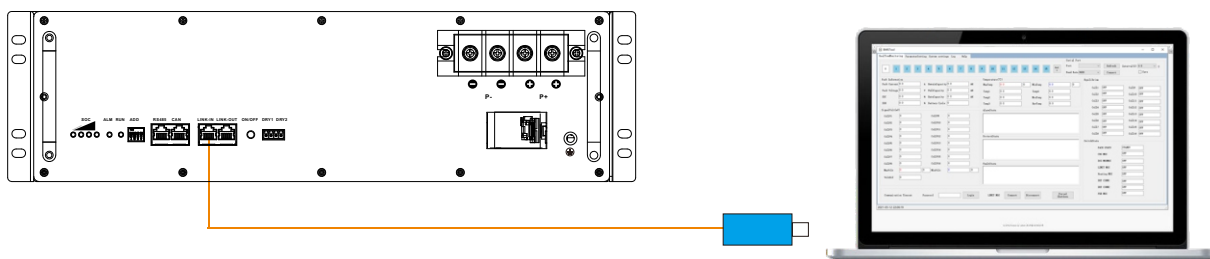
ADD	1#	1#	1#	1#	Remark
0	OFF	OFF	OFF	OFF	Pack 0, Default
1	ON	OFF	OFF	OFF	Pack 1, Master Battery
2	OFF	ON	OFF	OFF	Pack 2
3	ON	ON	OFF	OFF	Pack 3
4	OFF	OFF	ON	OFF	Pack 4
5	ON	OFF	ON	OFF	Pack 5
6	OFF	ON	ON	OFF	Pack 6
7	ON	ON	ON	OFF	Pack 7
8	OFF	OFF	OFF	ON	Pack 8
9	ON	OFF	OFF	ON	Pack 9
10	OFF	ON	OFF	ON	Pack 10
11	ON	ON	OFF	ON	Pack 11
12	OFF	OFF	ON	ON	Pack 12
13	ON	OFF	ON	ON	Pack 13
14	OFF	ON	ON	ON	Pack 14
15	ON	ON	ON	ON	Pack 15

## Step2 : BMS PC Software Operation

1. Download BMS PC software and Unzip to a local folder.

[http://120.27.63.138:8181/attach\\_files/rack\\_telecom/6](http://120.27.63.138:8181/attach_files/rack_telecom/6)

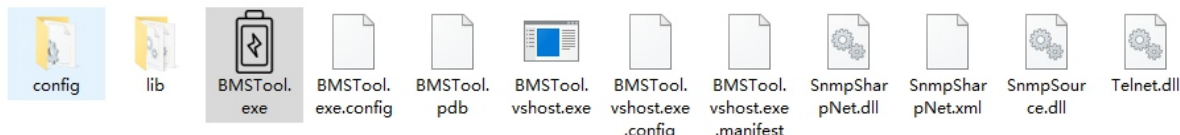
2. Connect battery LINK-IN port to computer by RS485 to USB equipment:



3. Check the battery ADD and make sure the ID=1

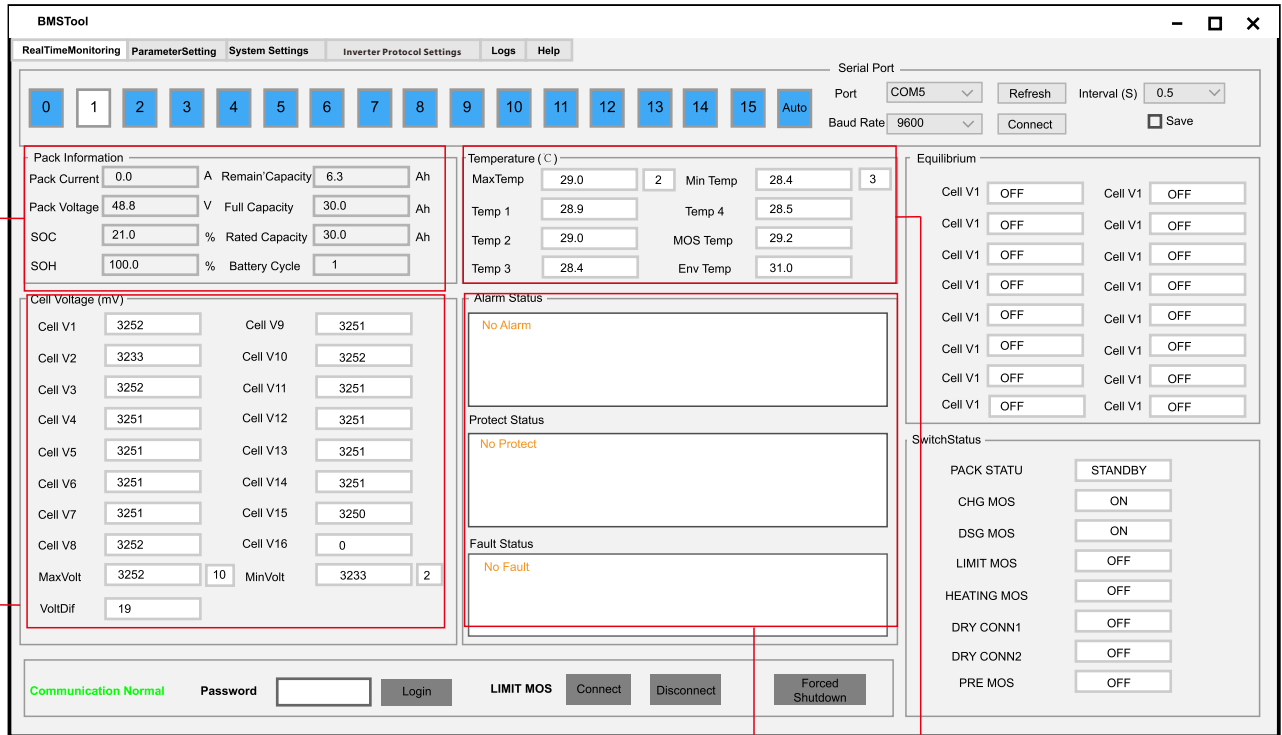


4. Double click “ BMSTool.exe” to run BMS PC software.



**Battery ADD**      **If RS485 to USB device is connected well, the serial port will be listed**

**3. Click “ Connect”, the BMS detail information will be listed**



Battery information:  
Total current, Total voltage,  
SOC, SOH, Remain capacity,  
Rated capacity, Cycle times.

Cells information:  
Cell voltage

Alarm, Protection, Fault  
information

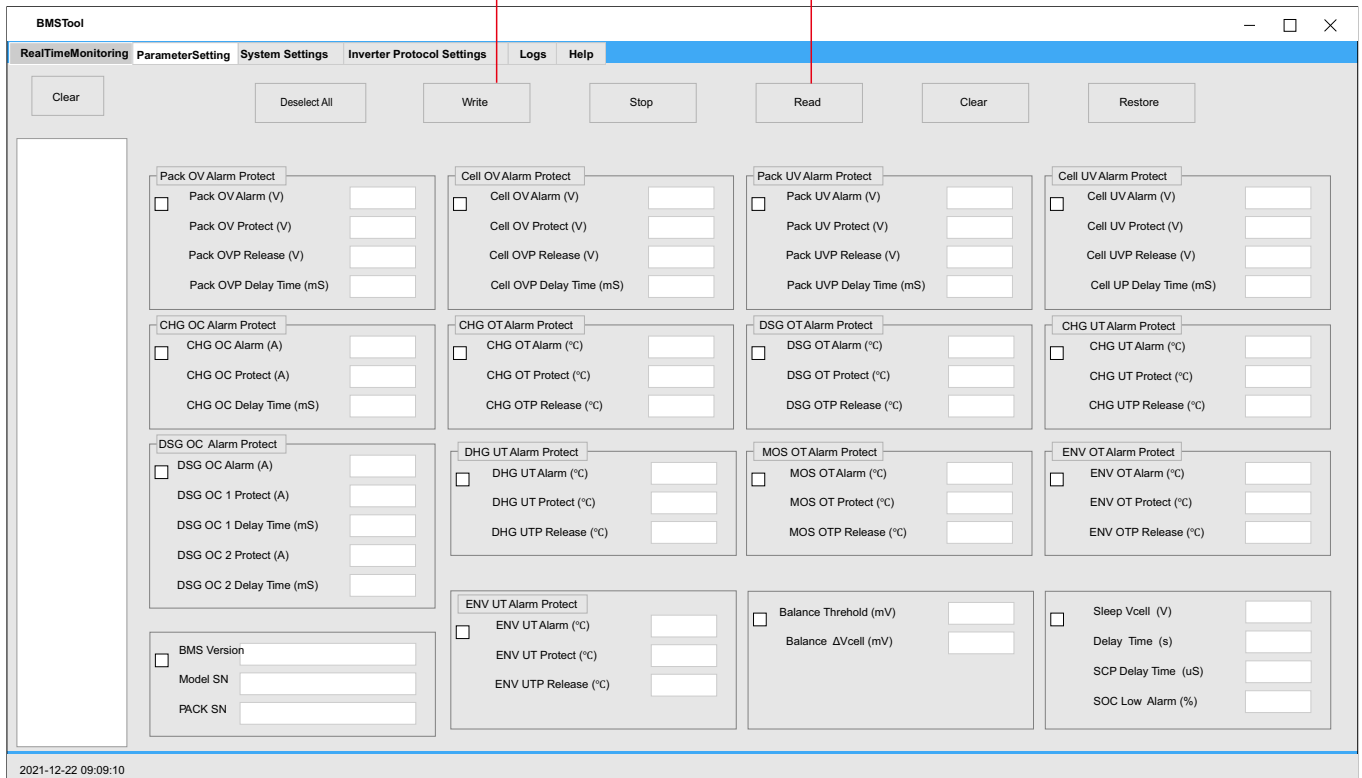
Temperature information:  
Cell temperature  
Environment temperature  
BMS temperature (MOS)

**Note:**

The Parameter setting change must be carried out by a professional engineer.

Writer new  
parameters

Check default BMS  
parameters setting



16SBMSTool(General Edition\_38400)V2.7

RealTimeMonitoring ParameterSetting System settings System extension Settings Log Help

Clear

Inverter selection

RS485 Inverter

Inverter Type  READ

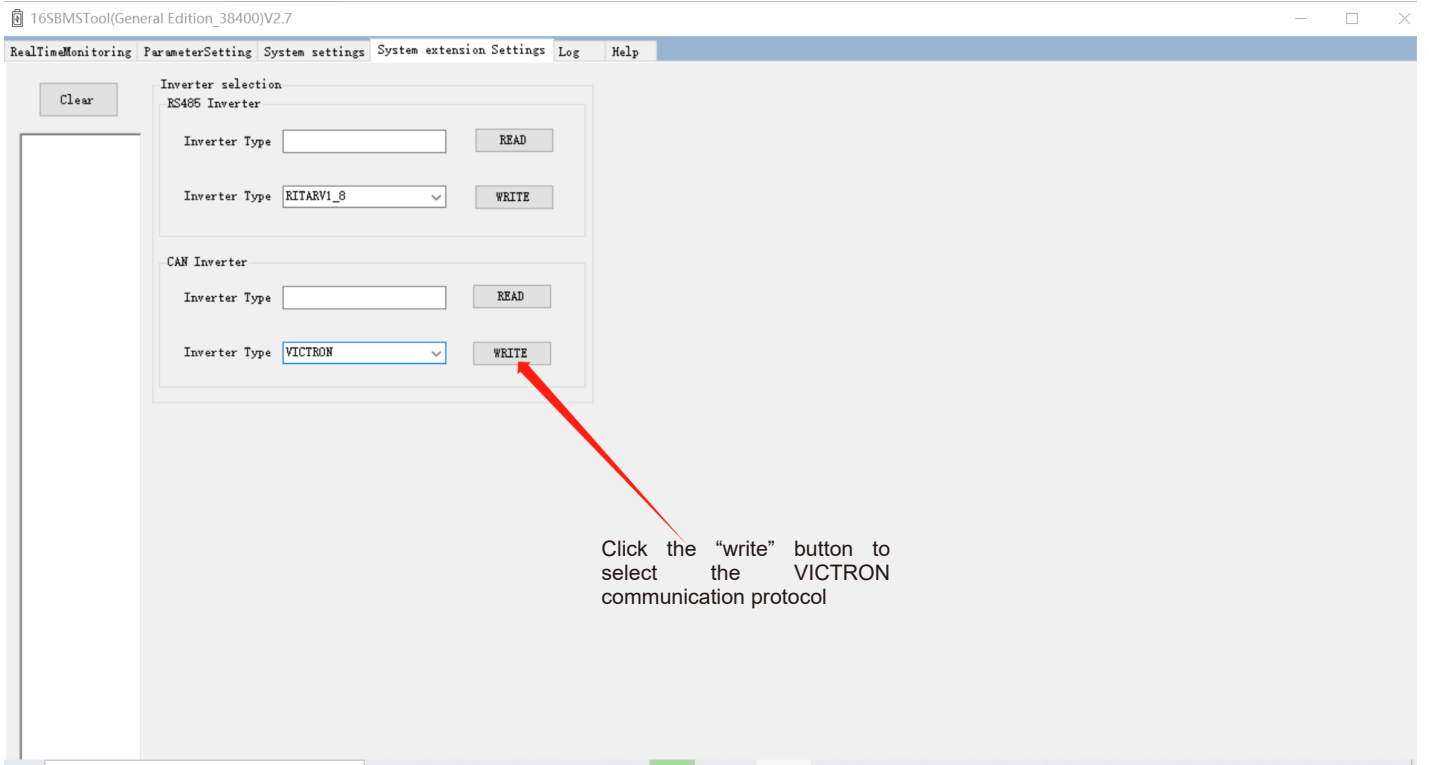
Inverter Type RITARV1\_8 WRITE

CAN Inverter

Inverter Type  READ

Inverter Type VICTRON WRITE

Click the "write" button to select the VICTRON communication protocol



## Step 3: Victron Cerbo GX device setup

1、 Connect the power and communication cables to the device as shown in the following figure



## 2. LCD Setting

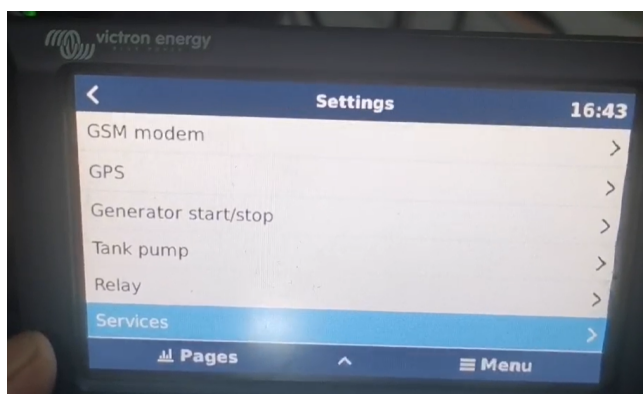
Setting →

Services→

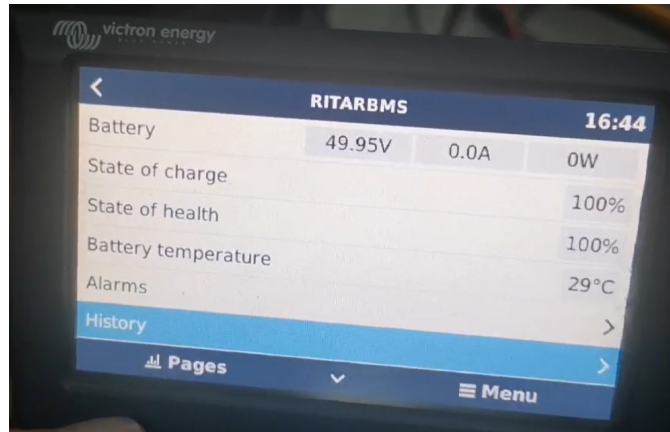
BMS CAN Port or VE CAN Port→

500kbits→

Setting the DCVV value



"Settings" --> "VE.Can & CAN-bus BMS (500kbit/s)" Back  
to main page, the BMS information will be listed.



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## **Step 4: You are ready to go**

## **Step 5: Shut Down**

### **POWEBOX**

- 1** Remove all the load
- 2** Turn off DC breaker of Powerbox.
- 3** Long press 3s Reset button of the Powerbox to power off battery
- 4** Disconnect PV/Grid
- 5** Turn off the inverter power switch, shut down the inverter

### **Battery Parallel**

- 1** Remove all the load
- 2** Turn off DC breaker between the battery and inverter.
- 3** Disconnect PV/Grid
- 4** Turn off the inverter power switch, shut down the inverter
- 5** Long press Reset button to power off the battery, from the master to the slaves one by one. Then switch off all the batteries' Power switch