

# USER'S MANUAL

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Dongle Connection

## VOLTHIUM MONITOR - BLUETOOTH APPLICATION

**Volthium Monitor** is the new generation application for your Volthium communication modules. Entirely made in Montréal (Québec), Canada. Download the application here:

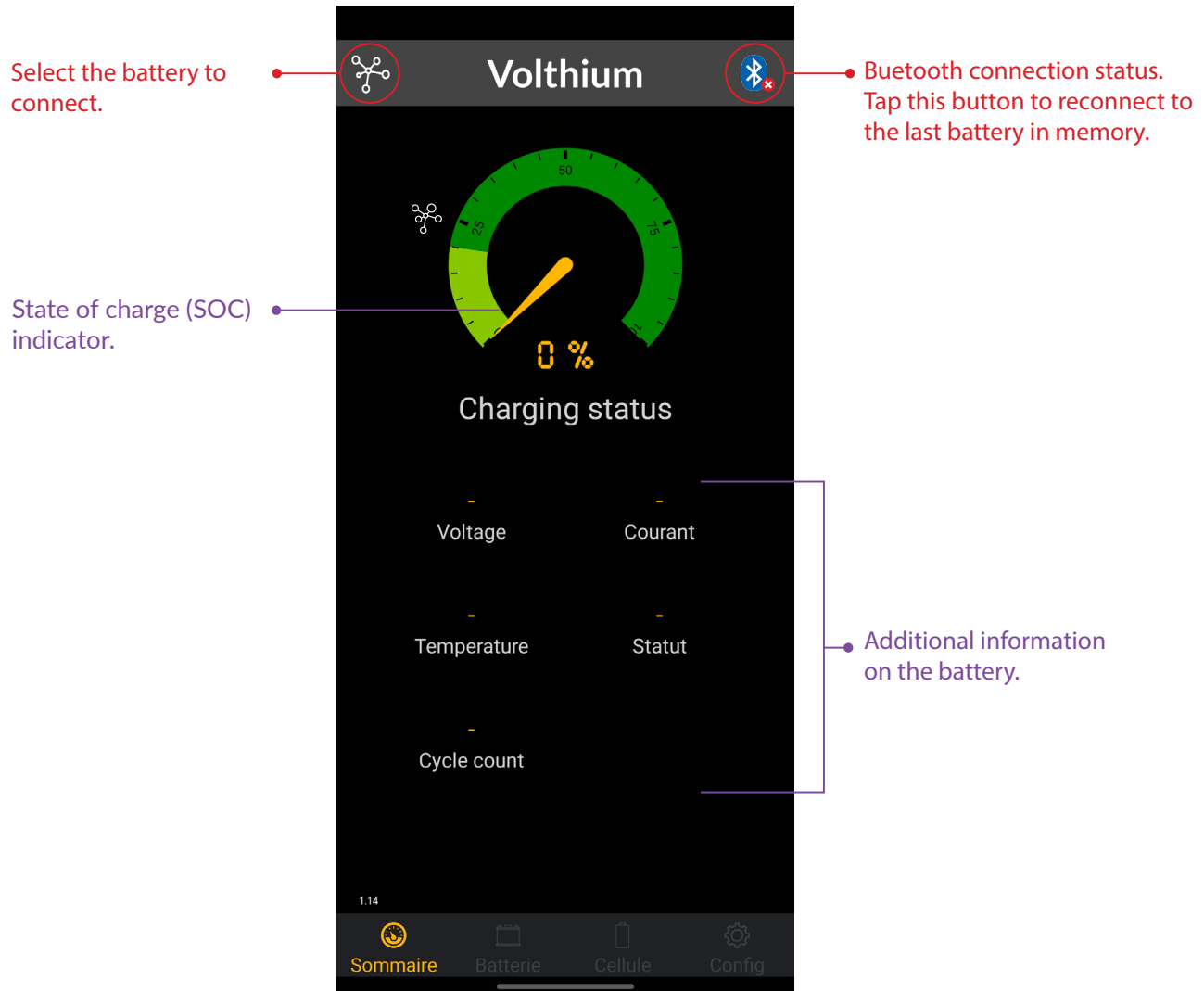


(available soon)

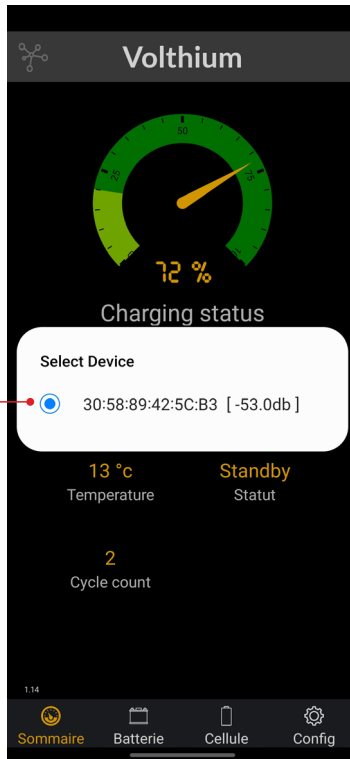


## DESCRIPTION OF THE VOLTHIUM MONITOR APP (ANDROID)

Main screen :

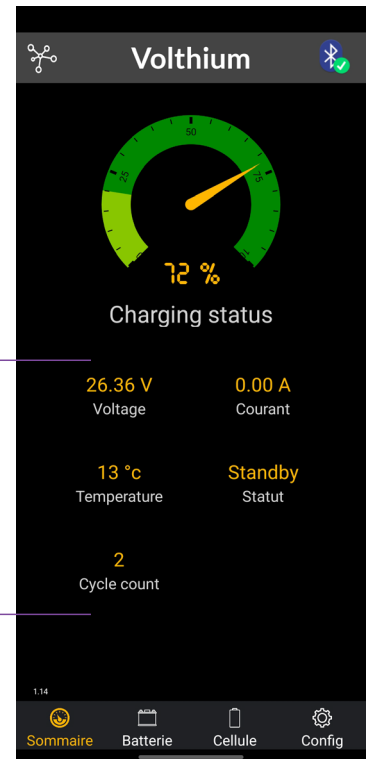


Main screen : select the battery to connect



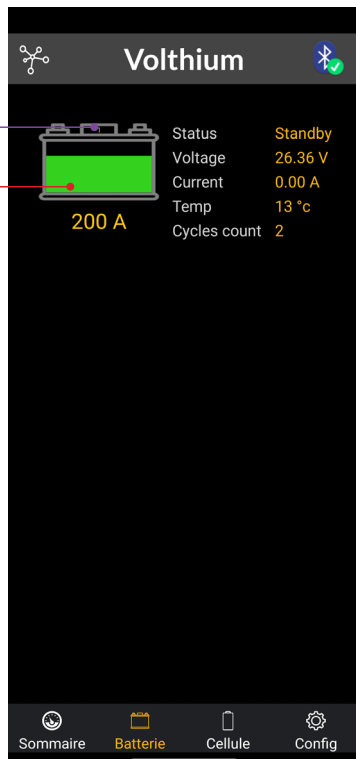
After a few seconds, the nearby batteries will show in this pop-up screen.

Main screen : connected battery's information



Battery's information

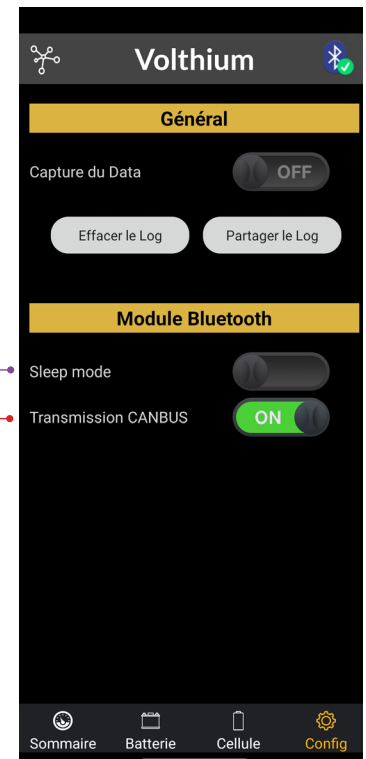
"Batterie" screen : additional information



Battery's connection port indicator.

State of charge indicator.

"Config" screen: additional settings



To save your smartphone's battery.

Toggle this option if your battery isn't connected to a Victron VE.CAN device.

## DESCRIPTION OF THE DIFFERENT MODULES

### 1. Bluetooth Dongle :

Has a total of 4 RJ45 female ports :

- 1 RJ45 port for sending battery's DATA (RS485).
- 1 RJ45 port reserved for the technical service department.
- 2 RJ45 (Daisy-Chain CAN) ports
  - They're used to interconnect the Volthium modules to the CAN network.  
For example; the CommunicationHub module, that would be used to read the DATA of a multiple battery bank (up to 4 batteries in a battery bank)

### 2. CommunicationHUB :

Has a total of 6 RJ45 female :

- 4 RJ45 female ports on a side :
  - To read batteries' information only.
- 2 RJ45 (Daisy-Chain CAN) ports
  - They're used to interconnect the Volthium modules to the CAN network.
  - For example; the Bluetooth Dongle.
  - They're also used to connect an external device to the CAN bus, such as a compatible Victron VE.CAN.

## BLUETOOTH CONNECTION: 1 OLTHIUM 24V 200AH BATTERY (YELLOW TOP)

**These instructions apply to the following batteries :**

- 12V 150AH - GR31
- 12V 200Ah - 4D (2023 model, yellow top)
- 12C 300Ah - 8D (2023 model, yellow top)
- 12V 400Ah - 8D
- 12V 400ah - Wallmount
- 24V 100Ah - 8D ABS
- 24V 200Ah - 8D ABS

**You will need a Bluetooth Dongle for this wiring scheme.**

Included with the Bluetooth Dongle :

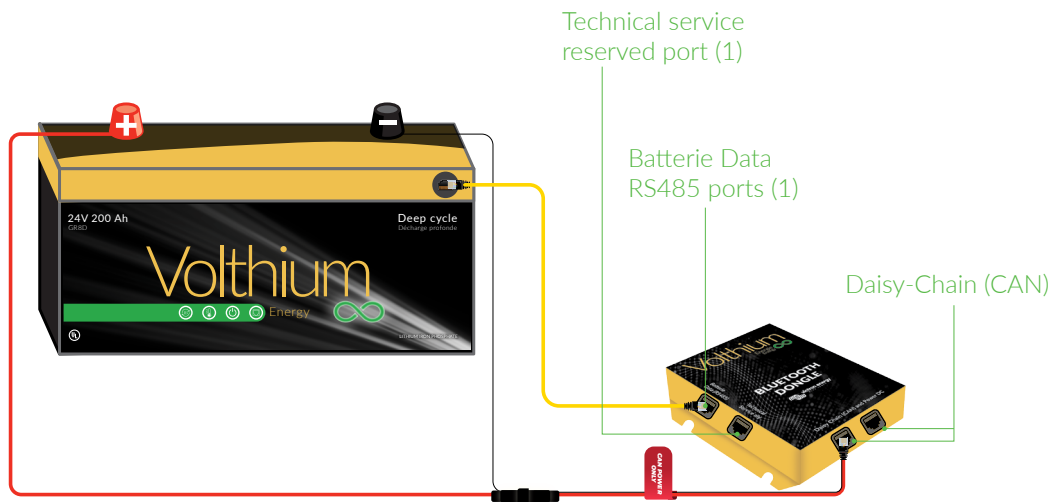
- Bluetooth Dongle
- DC power supply cable
- 1 RJ45 cable (6in) or 1 XLR male cable (RJ45 to XLR)

## Instructions

1. Connect the battery via its RJ45 port (any of the two) to the RS485 port of the Bluetooth Dongle using the RJ45 standard cable. (you can use the provided yellow cable).
2. Connect the DC power supply cable to the batterie's terminals and the other end of the cable (male RJ45) to the Bluetooth Dongle. Connect the RJ45 end in of the 2 Daisy-Chain CAN ports of the module.
3. Download the mobile app :
  - [Volthium Monitor pour iOS](#)
  - [Volthium Monitor pour Android](#)

You like video explanation better !? click here : <https://www.youtube.com/watch?v=mFVzxP6i36M&t=13s>

Connexion scheme : 1 volthium 24V 200AH battery (yellow top)



## BLUETOOTH CONNECTION : 2 VOLTHIUM 12V 100AH BATTERIES

**These instructions apply to the following batteries :**

- 12V 100AH - GR24 (2022 model, black top and 2023 model, yellow top)
- 12V 200AH - 4D (2022 model, black top, 2 communication ports)
- 12C 300AH - 8D (2022 model, black top, 2 communication ports)

**You will need the combo Bluetooth dongle + CommunicationHub for this wiring scheme.**

1. Included with the Bluetooth Dongle :

- Bluetooth Dongle
- DC power supply cable
- 2 RJ45 cable (6in) or 2 XLR male cable (RJ45 to XLR)

2. CommunicationHUB

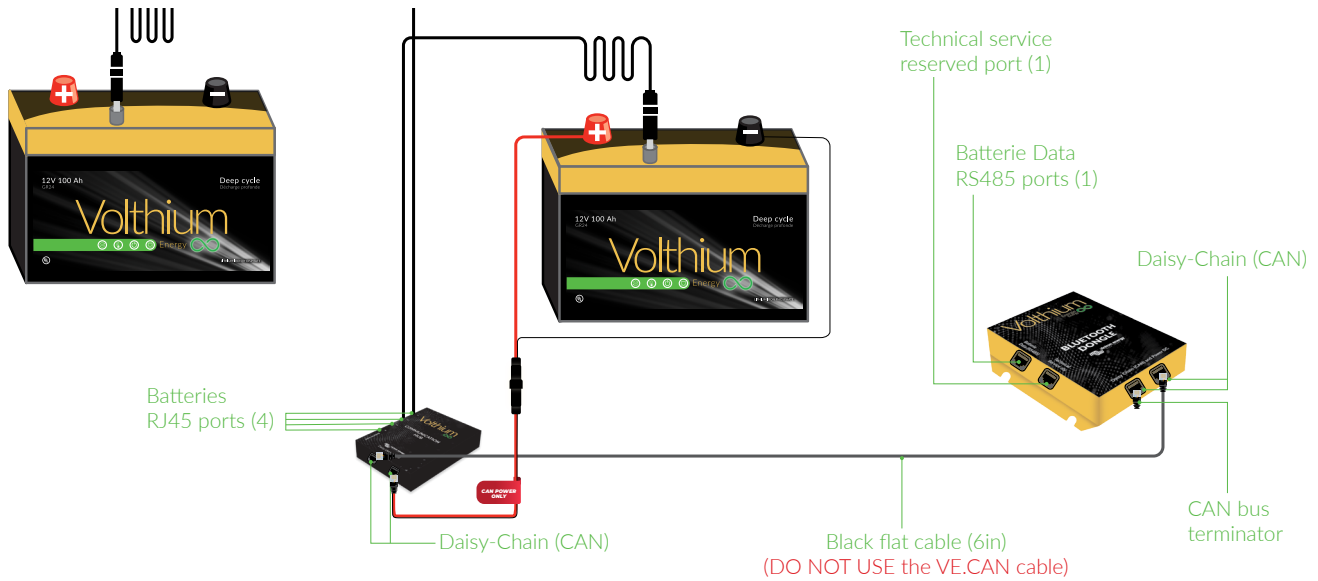
- CommunicationHUB module
- 2 RJ45 cable (6in) or 2 XLR male cable (RJ45 to XLR)
- 1 VE.CAN flat cable (SKU: ACC-CABLE-COMMHUB-VENUS-6P)
- 1 black flat cable (6in), used to interconnect the Bluetooth Dongle module and the CommunicationHub module.
- Please note that the combo comes with only 1 DC power supply cable (included with the Bluetooth Dongle)

### Instructions

1. Connect the 2 batteries, from their XLR ports to the CommunicationHub, make sure to connect the batteries to the port 1 and 2 of the CommunicationHub.
2. Interconnect, via the Daisy-Chain CAN ports, the CommunicationHub to the Bluetooth Dongle using the RJ45 flat cable. **(DO NOT use the VE.CAN flat cable to interconnect the CommunicationHub and Bluetooth Dongle).**
3. Connect the DC power supply cable to the batterie's terminals and the other end of the cable (male RJ45) to the Bluetooth Dongle. Connect the RJ45 end in of the 2 Daisy-Chain CAN ports of the module.
4. Download the mobile app :
  - [Volthium Monitor pour iOS](#)
  - [Volthium Monitor pour Android](#)

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### Connection Scheme : 2 Volthium 12v100AH batteries



## BLUETOOTH CONNECTION + VICTRON: 2 VOLTHIUM 12V100AH BATTERIES

These instructions apply to the following batteries :

- 12V 100AH - GR24 (2022 model, black top and 2023 model, yellow top)
- 12V 200AH - 4D (2022 model, black top, 2 communication ports)
- 12C 300AH - 8D (2022 model, black top, 2 communication ports)

You will need the combo Bluetooth dongle + CommunicationHub for this wiring scheme and a compatible Victron VE.CAN device.

1. Included with the Bluetooth Dongle :

- Bluetooth Dongle
- DC power supply cable
- 1 RJ45 cable (6in) or 1 XLR male cable (RJ45 to XLR)

2. CommunicationHUB

- CommunicationHUB module
- 2 RJ45 cable (6in) or 2 XLR male cable (RJ45 to XLR)
- 1 VE.CAN flat cable (SKU: ACC-CABLE-COMMHUB-VENUS-6P)
- 1 black flat cable (6in), used to interconnect the Bluetooth Dongle module and the communicationHub module.
- Please note that the combo comes with only 1 DC power supply cable (included with the Bluetooth Dongle)

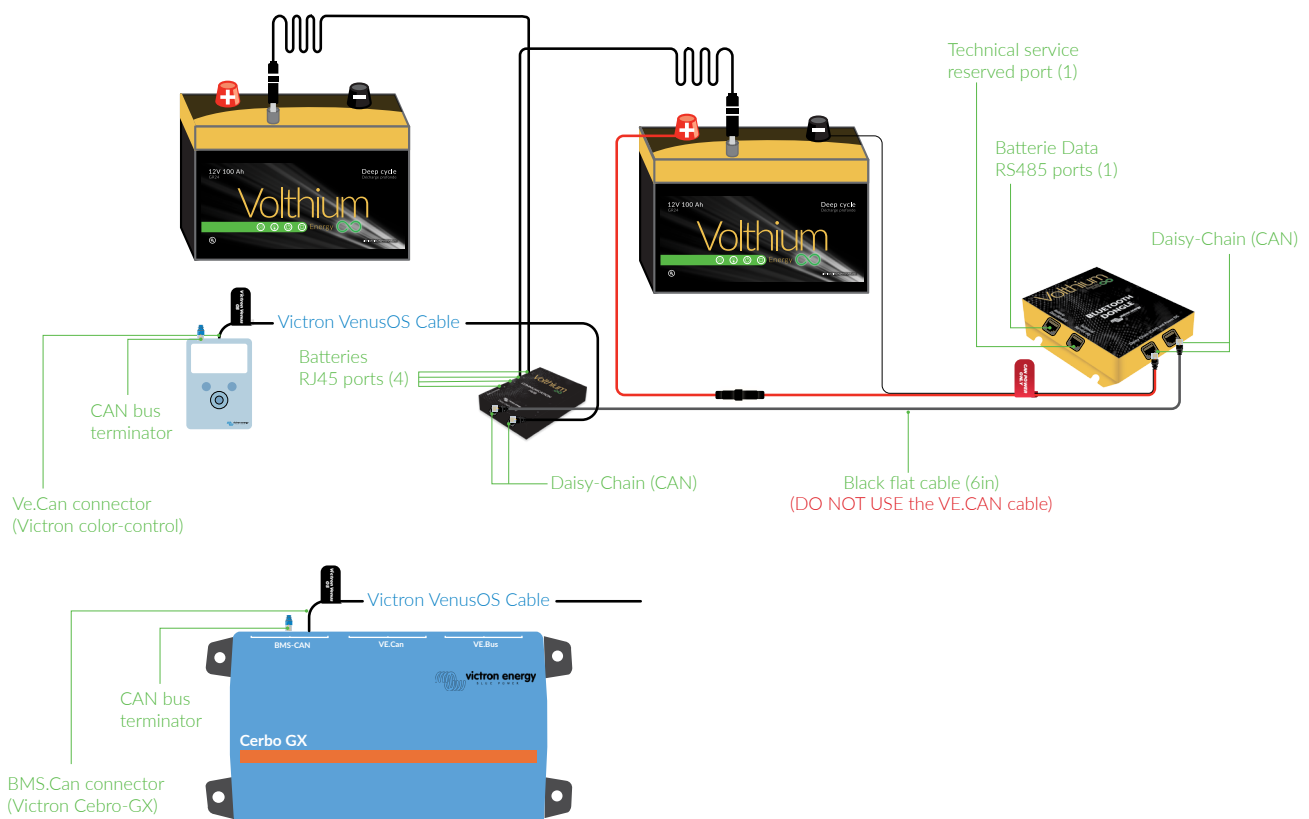
3. Compatible Victron VE.CAN device

## Instructions

1. Connect the 2 batteries, from their XLR ports to the CommunicationHub, make sure to connect the batteries to the port 1 and 2 of the CommunicationHub.
2. Interconnect, via the Daisy-Chain CAN ports, the CommunicationHub to the Bluetooth Dongle using the RJ45 flat cable (**DO NOT use the VE.CAN flat cable to interconnect the CommunicationHub and Bluetooth Dongle**).
3. Connect the DC power supply cable to the batterie's terminals and the other end of the cable (male RJ45) to the Bluetooth Dongle. Connect the RJ45 end in of the 2 Daisy-Chain CAN ports of the module.
4. Connect the 6ft flat VE.CAN RJ45 cable, with a Venus OS tag, from one of the Daisy-Chain CAN port of the CommunicationHub module to the Victron device. It is very important that the cable's end with the Venus OS tag is plugged into the Victron device. **The connection direction of the cable is very important**.
  - Also, make sure that the circuit is terminated using the blue CAN BUS RJ45 terminator (provided with the Victron device).
5. Download the mobile app :
  - [Volthium Monitor pour iOS](#)
  - [Volthium Monitor pour Android](#)

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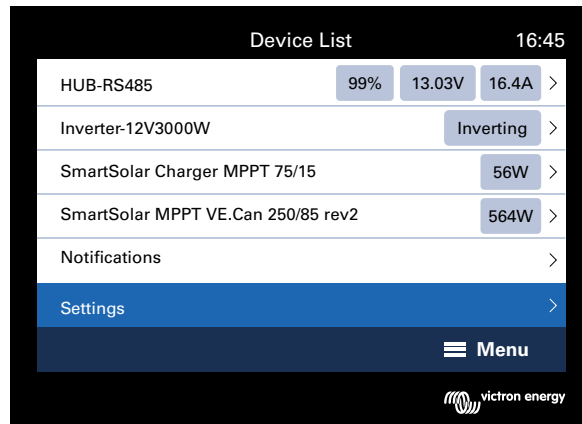
### Connection Scheme : 2 Volthium 12v100AH batteries + Victron:





## DATA AS SHOWN IN THE VENUS.OS

If you do not have a BMS CAN port, make sure you set the Venus OS VE.CAN port to BMS-CAN (500kb/s).



## WINTERIZING YOUR BATTERIES

**Important :** Please make sure to unplug all the connected devices from your batteries when you know you are not going to use your batteries for over 3 months. We recommend that you unplug the negative terminal of your batterie as well.