

# Victron Energy and BlueNova Energy LiFePo4 Batteries

The BlueNova Energy ([www.bluenova.co.za](http://www.bluenova.co.za)) range of Lithium Iron Phosphate batteries is compatible with Victron products in various systems.

## 1.1 Product and System Compatibility

Victron + BlueNova can be used for the following systems

1. Off Grid 2. Backup 3. Energy Storage

## 1.2 Colour Control GX or VenusGX is required

When used with BlueNova Batteries the minimum firmware version for the Colour Control / Venus G X is v2.02. It is recommended to always use the latest Firmware version for the Colour Control/Venus GX.

## 1.3 All 48V Multi's, MultiPlus, MultiPlus II, Multigrids and Quattros are compatible

When the BlueNova battery is installed in a Victron ESS installation, which is the best solution for Energy Storage Systems, there is no need for additional control wiring. For other systems, such as off-grid systems and backup systems, the internal BMS controls will control deep discharge and overcharge conditions. Please contact BlueNova for more information. For more Victron-related settings see the VEConfigure section below

## 2. BlueNova Energy product range

The BlueNova range is supplied with a BMS as standard on all current models of batteries. See the BlueNova product page for more details on the various options.

## 3. Wiring of Can.Bus cable between BlueNova and CCGX.



No RJ45 cable is supplied for this connection .

Plug the CCGX/VenusGX side of the cable into one of the VE.Can sockets on the back of the CCGX/VenusGX. Plug the other end into the battery at one of the RJ45 CANbus ports. A VE.Can terminator is not necessary for the other VE.Can socket on the CCGX/VenusGX. Without properly connecting this cable, the battery will stop charging/discharging after several minutes. Also, the battery will not show up on the display of the CCGX/VenusGX.

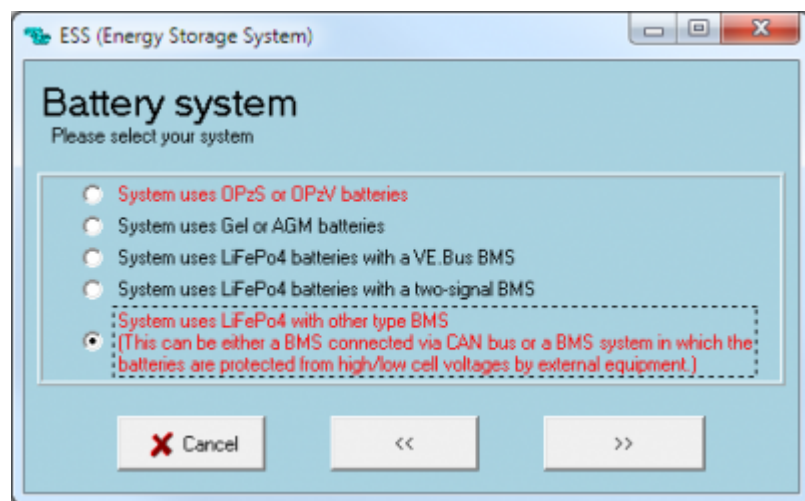
## 4. VEConfigure settings

### 4.1 Charge parameters

Parameter	Setting
<u>Batt. type</u>	User defined
Charge curve	Fixed
<u>Absorbtion voltage</u>	56,2V
Float voltage	55,5V
<u>Absorbtion time</u>	60 min.

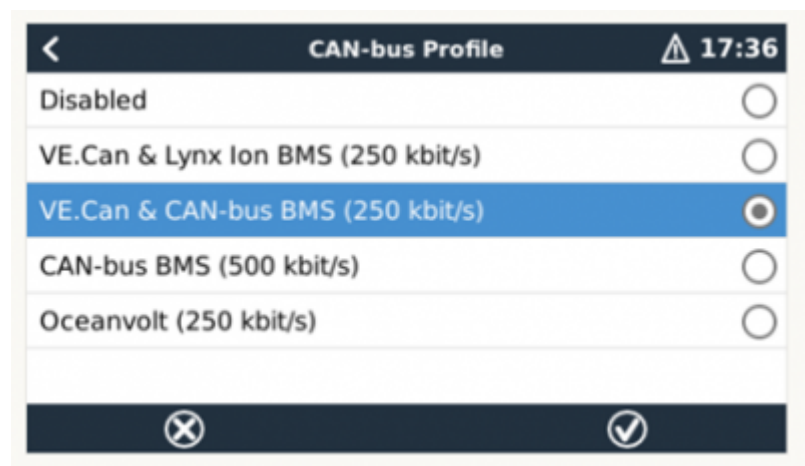
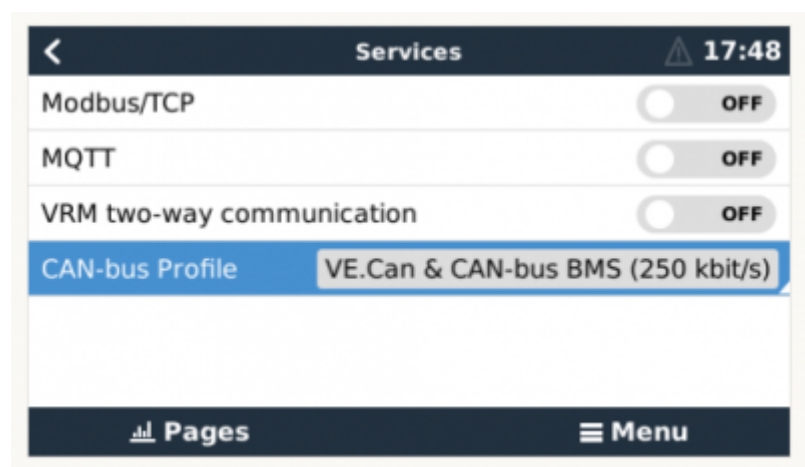
## 4.2 ESS Assistant

Select the fourth battery type:

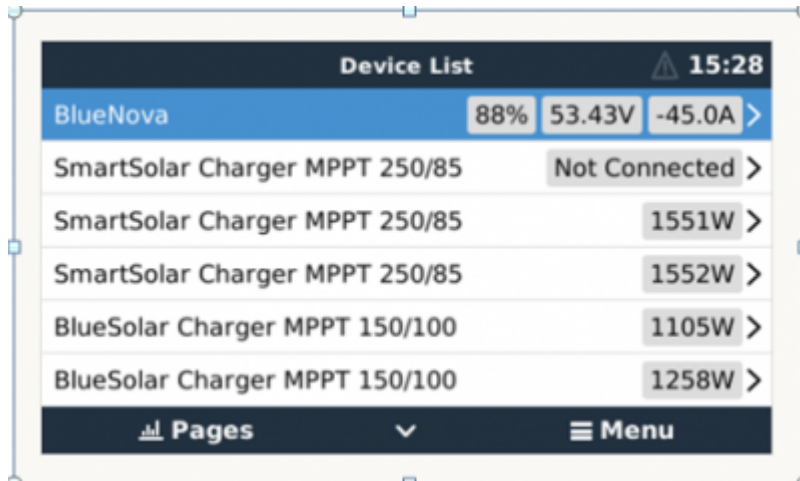


## 5. Color Control GX Configuration

Select the *VE.Can & CAN-bus BMS (250 kbaud)* CAN-profile in the CCGX. Menu path: *Settings* → *Services* → *CAN-profile*. Note that this changes the function of a VE.Can port: it is not possible to connect both VE.Can products and a Bluenova battery together.



After properly wiring and setting up, the BlueNova will be visible as a battery in the device list:



If you have multiple batteries, a single entry will show up, which represents all batteries. The parameters option within the battery page shows the actual battery charge and discharge limits.

## 6. Configure MPPT

1. Disable Autodetect voltage
2. Set Battery voltage to 48V.

It is recommended to make these settings using the VictronConnect App and Bluetooth.

\*\* - All latest GX devices applicable.

## DISQUS

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