

# DRAFT: Victron & Exide

The combination of Victron products with the Exide battery has been tested and certified by the R&D departments. The combination is actively supported by both companies.

Compatible models:

- LIBM0480050-G01 as of firmware v1.10

## 1. Introduction

### 1.1 Compatible Victron products

All 48V Multis and Quattros. And always a [GX device](#) is necessary in the system, since that has the canbus port which is used for the (required!) communication between the ESS battery and the Victron system.

### 1.2 Notes

### 1.3 System diagram

## 2. GX device needed

To use the Exide ESS in Victron system, it is necessary to use a GX-device such as a Color Control GX, a Venus GX or a Cerbo GX. The GX device needs to run at least firmware v2.90. It is recommended to always use the latest Firmware version for the GX device.

## 3. Wiring of communication cables

Use the *VE.Can to CAN-bus BMS type B Cable*, part number ASS030720018. Plug the side which is labeled Battery BMS into the Exide BMS. Plug the side labeled Victron VE.Can into the [GX device](#).

Exide batteries come with a CAN-bus terminator already installed/supplied. When assembling the battery from individual modules, remember to terminate the CAN-bus on the last module, using the supplied terminator. In most cases, this is already done in the factory.

More information about the cable can be found in [here](#).

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 [GX device](#).

## 4. VEConfigure settings

### 4.1 General tab

- Check the “Enable battery monitor” function
- Set the battery capacity to the total capacity of the battery: the Ah capacity per module multiplied by the number of battery modules.
- The other parameters (“State of charge when bulk finished” and “Charge efficiency”) can be left to their default setting: They have no effect in this type of installation.

### 4.2 Charge Settings

#### Charger tab

Parameter	Setting
Battery type	Lithium
Charge curve	Fixed
Absorption voltage	51.0 V
Float voltage	50.8 V
Absorption time	1 Hr

Note: make sure to double check the float voltage after completing Assistants, and if necessary set it back to 50.8 V.

### 4.3 Inverter Settings

In the Inverter tab of VEConfigure

VEConfigure Inverter Parameter	Setting
DC input low shut-down	42V
DC input low restart	45V
DC input low pre-alarm*	45V

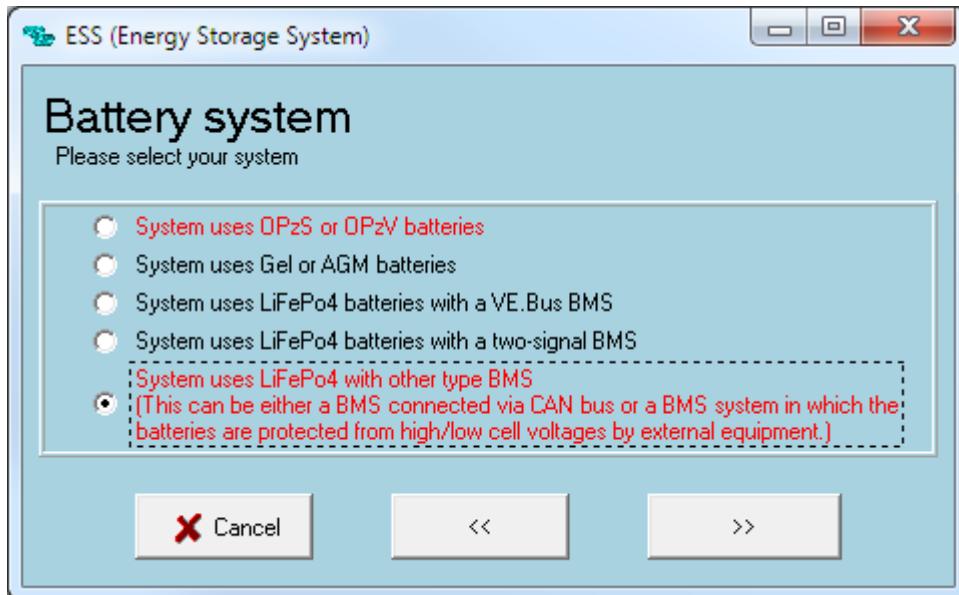
\* The pre-alarm setting is dependent on your preference and on site specific requirements. You may wish for this to be activated earlier in an off grid situation to allow time to start a backup generator.

### 4.4 ESS System Settings

If you are using the battery as part of a [grid connected ESS system](#), please review the [ESS Quickstart guide](#) and [Design and Installation Manual](#).

The settings that are specific to the EXIDE battery in the VEConfigure ESS Assistant are below:

Select the externally managed Lithium battery option

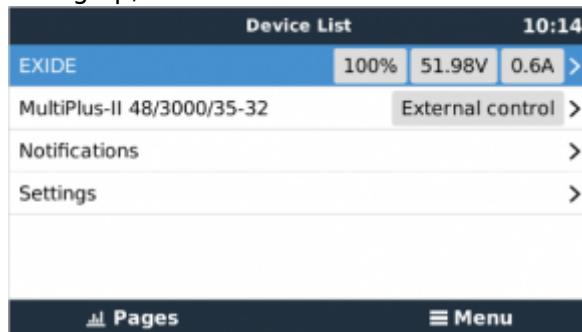


ESS Parameter	Settings
Sustain voltage.	45V
Dynamic cut-off values	set all values to 43.5V.
Restart offset:	1.2V (Default)

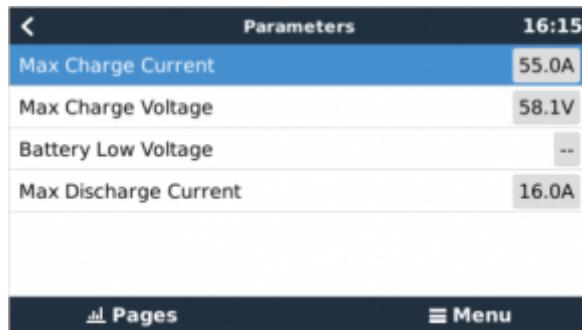
Due to the reliability of the grid supply and the behaviour of the sustain voltage threshold in ESS; you may wish to suppress the low voltage pre-alarm warning so that it does not trigger every day on its regular deep cycle. See [ESS FAQ Q5](#) - about suppressing the low-voltage alarm.

## 5. GX device Configuration

- Select the *CAN-bus BMS (500 kbits/s)* CAN-profile in the [GX device](#). 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 an Exide battery together on a Color Control GX. It is possible on the Venus GX.
- After properly wiring and setting up, the Exide ESS will be visible as a battery in the device list:



- The parameters option within the battery page shows the actual battery charge and discharge limits:



## 6. MPPT Settings

In normal operation the MPPT charge characteristics are governed by the [GX device](#) via DVCC, with instructions from the connected EXIDE battery.

This section presumes familiarity with [VictronConnect](#)

The settings below can be set as a precautionary measure, should the MPPT ever end up in standalone mode.

MPPT Parameter	Setting
Battery voltage.	48V
Absorption voltage	51V

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