Lynx DC distribution system

The lynx system is a modular DC bus bar system used to connect batteries, DC equipment and provide fusing and battery monitoring. It consists of the following modules:

- Lynx Power In
- Lynx Shunt
- Lynx Distributor

Information on these 3 parts can be found below, but also in this manual

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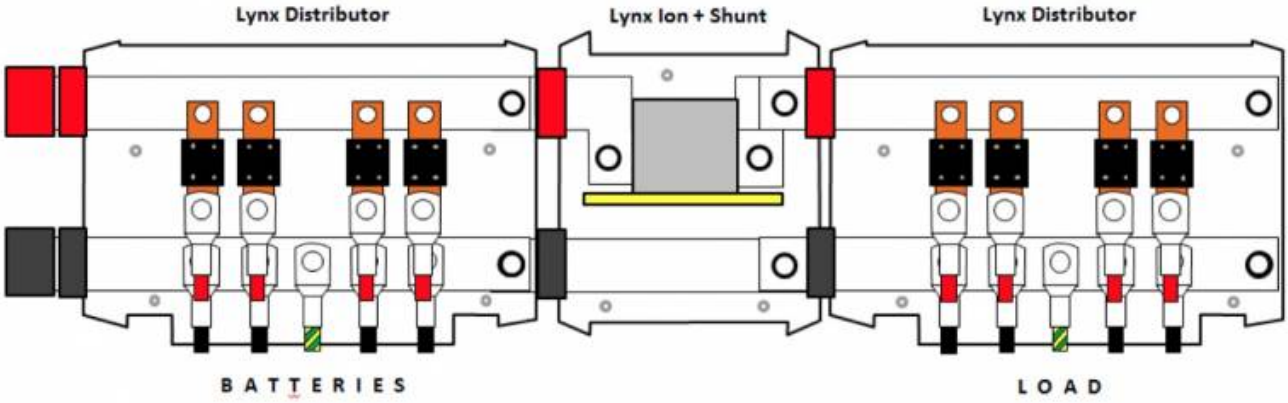
The Lynx Distributer is used at the battery side (left side) instead of a Lynx Power In.
This is because in this way fuses can also be installed at the battery side.



- Connect all the batteries to the left side of the Lynx Ion + Shunt.
- Connect all chargers and loads to the right side of the Lynx Ion + Shunt.

Lynx Power in

The lynx power in module is used to connect batteries. It contains a negative and positive DC bus-bar with M8 bolts to connect batteries cables to.

Lynx shunt

The Lynx shunt contains a positive bus-bar with space to mount a fuse and a negative bus-bar with a shunt. It also contains battery monitor electronics. The Lynx shunt can send via the VE.CAN bus battery motoring information to a CCGX or VGX or to a third party can bus monitoring system, such as a NMEA2000 (check with Johannes). The CCGX, VGX or third party display acts as battery monitor display and is also used to set up the built-in batter monitor.

The Lynx shunt is available in two models:

- VE.CAN
- VE.NET (depreciated)

Fuse

CIP140325000 - Fuse CNN 325A/80V for Lynx shunt

Or alternatively a CNN fuses by Littlefuse can be used. The CNN fuse is a 48 Vdc Fast fuse and is available up to 800A.

Shunt

Rated at 1000 A

Setup

Setup is like setting up a BMV and this is done via the CCGX or VGX.

To find out the meaning of the various settings, please see the BMV manual

Please don’t use the 2-pin terminal block on the Lynx-shunt.

FAQ Q Is there a way of setting the battery instance? A There is a program available to change this but as the default is 0, which is the same as what a CCGX reads we would not advise changing this!!

Lynx Distributor

Contains positive and negative bus-bar and provides a connection for for 4 individual DC equipment or load or DC groups. It has a space for a individual DC fuses per DC group and a led for each fuse to indicate if fuse is blown.

- Green led = fuse is okay
- Red led = blown fuse

Fuses

Uses MEGA fuses. Please note that some MEGA fuses are only rated to 36Volt (suitable for 24V systems), You must use 64V rated fuses for 48V systems.

Installation

Connectors and dip-switches:

- The R11 connector is to power the Lynx-distributor from the Lynx-shunt
- The DIP switch on the Lynx-distributor are for specific manual settings, to do with our 24V batteries. Please don’t touch.
- The 6-pin header block on the Lynx Distributor is for reading out the fuses, but this feature is not supported.

FAQ Q There is a small 4-pin cable shipped with the Distributor - I can only assume that the cable interconnects between the Shunt and Distributor? A Yes, but this has only to power the LED’s on the distributor, there is no other function for this at the moment.

Q The Distributer has a DIP switch. What are the settings? A That’s for manual settings, please don’t touch as the system will auto configure (up to 32 battery’s)

Q The Distributer has a 6-pin header block. What is it for? A read out of fuses, not supported yet.

Customer Images

Here are some images from customer's installations that may help you to understand the installation of the Lynx System.

Discovery Yachts

https://www.victronenergy.com/upload/images/Li-Ion-installation_plan.jpg

https://www.victronenergy.com/upload/case-details/122309_Karibu-energy-system.png

Ysebaert's Hybrid Back-up System in Belgium

https://www.victronenergy.com/blog/wp-content/uploads/sites/10/2016/01/DSC00107-730x548.jpg

AMSolar's 2015 Redwood 38RL, 42’

Closeup Photo of Lynx