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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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 the MEGA fuse is only rated to 36Volt)

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.

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