



IMPORTANT INFORMATION!
 For proper functioning with Victron equipment initial Victron CE firmware v1.14 or higher into the CERBO. The alternator shunt is required to work with DVCC. The ZEUS regulator needs to be configured for use with the Victron Lynx Smart BMS NG and Victron NG Li batteries. Go to ARCOMARINE.COM/ZEUS and download the APP to make all necessary settings. For questions and trouble shooting, contact ARCO Marine at ARCOMARINE.COM to help you further.

IMPORTANT INFORMATION!
 The SmartBatteryProtect 220 must be programmed for Li-Ion mode-C and 24 Volt either through programming on the device itself or with a Bluetooth enabled smartphone/tablet.

IMPORTANT INFORMATION!
 The Cerbo tank level ports can be configured to work with either European (Ø - 180 Ohm), or US tank senders (240 - 30 Ohm) standards. Or one can configure a custom Ohm resistance range between 0 Ohm and 300 Ohm. This requires firmware v2.80 or higher.

IMPORTANT INFORMATION!
 Victron Lithium NG Batteries charge & discharge controlled by BMS NG & CERBO. In systems with Victron Lithium NG Batteries, it's important that all charging devices as well as loads are controlled by the BMS NG (also in Parallel). Here is how that is taken care of in this system:

- 1 - Quattro inverter/charger: digitally via the GX Device, DVCC feature.
- 2 - SmartSolar charge controller: digitally via the GX Device, DVCC feature.
- 3 - ZEUS alternator regulator: digitally via the GX Device, DVCC feature.
- 4 - ZEUS alternator regulator: when VE Can fails, one can use the positive wire from the ATC contact of the BMS NG also running through its relay contacts further towards the ZEUS regulator enable ATC connection, forcing the regulator with alternator to stop charging completely when ATC power is switched off. (on recommendation from Arco Marine)
- 5 - DC Loads: via ATD power towards SmartBattery Protect 220 & ORIONS
- 6 - AC Loads: controlled together with the Quattro Inverter/Charger.

When adding this extra battery and when extra loads are connected to the Distributors, update the Lynx Smart BMS NG to the 1000A model.

3 x Lithium 25.6V-200Ah NG LiFePO4 Batteries

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IMPORTANT INFORMATION!
 Recommended AC Out-1 cable/breaker size Quattro
 With Power assist the Quattro can assist 3kW to the output load when needed. Together with the adjustable 100A input this all adds up to the max sum of input and output current of 100+3x24=424A. An Earth leakage device with breaker or a combination MCB/RCD must be installed on the output. Cable size must be adjusted accordingly.

IMPORTANT INFORMATION!
 Recommended AC In cable/breaker size Quattro
 AC In 1 & 2 must be protected by a circuit breaker rated at 100A max or less. This depends heavily on the size of the connected power source. The input current must be adjusted to fit the size of the connected power source. The breaker and cable size for AC in 1 & 2 should be adjusted accordingly.

IMPORTANT INFORMATION!
 When operating in inverter mode, the Neutral output of an inverter charger must be connected to ground to guarantee proper functioning of a GFCI or RCD device. In case of a split phase supply the Neutral also must be grounded.

IMPORTANT INFORMATION!
 Recommended DC cable/fuse size Quattro
 0.5m cable length: 4 x AWG 10; 5.1m cable length: 4 x AWG 3/0. When used in closed conduits, cable size should double. Cable length stands for the distance between the battery and the Quattro. Recommendations are without other loads in the system and these also should be taken into account for proper main battery, main fuse & main switch cables! Fuse size should be 1 x 400A.

IMPORTANT INFORMATION!
 The primary Case ground connection from an inverter charger like a Quattro, must be connected to the Central Negative Busbar of the DC system. Size of this cable must be one size smaller or identical to the total connected DC negative.

WARNING!
 120 Volt AC is extremely HAZARDOUS! Do not touch any LIVE WIRED parts of the installation. When in doubt, always consult your Victron dealer for advice!

AC WIRE COLORS AS FOLLOWS:
 LINE-1: [Red]
 LINE-2: [Blue]
 NEUTRAL: [White]
 PE-GROUND: [Green/Orange]

DC WIRE COLORS AS FOLLOWS:
 POSITIVE: [Red]
 POSITIVE: [Blue]
 NEGATIVE: [Black]
 NEGATIVE: [White]

Lynx Smart BMS NG Enlarged connections