



The VE-BUS BMS is a shunt type and is not connected to prevent ground loops. Ground comes through the VE-BUS UTP cable.

The BatteryProtect must be programmed for LiIon mode C and 24 Volt either through programming on the device itself or with a Bluetooth enabled smartphone or tablet. Connect the load disconnect output of the VE-Bus BMS to Remote if terminal.

KEEP POSITIVE BATTERY CABLES ALL AT THE SAME LENGTH!

4 x Lithium 25.6V-200Ah Smart LiFePO4

KEEP NEGATIVE BATTERY CABLES ALL AT THE SAME LENGTH

THE BMV SHUNT HAS BEEN UPGRADED FROM STANDARD 500A TO 1000A. THE BMV SHUNT IS MOUNTED DIRECT ON BOTH BUSBARS.

Drawing BJE-257A

- CENTRAL NEGATIVE BUSBAR
- CYRUX LI
 - BP230 GND
 - CCGX
 - ARD0 FET
 - Load
 - Load
 - Load
 - Load
 - Engine
 - MPPT
 - Alternator
 - Q1 Comm 1 Bus
 - Q1 Comm 2 Bus
 - Q1 Comm 3 Bus
 - Q1 Comm 4 Bus
 - Q1 Comm 4 -wire ground
 - Q2 Comm 1 Bus
 - Q2 Comm 2 Bus
 - Q2 Comm 3 Bus
 - Q2 Comm 4 Bus
 - Q2 Comm 4 -wire ground
 - Q3 Comm 1 Bus
 - Q3 Comm 2 Bus
 - Q3 Comm 3 Bus
 - Q3 Comm 4 Bus
 - Q3 Comm 4 -wire ground
 - Q4 Comm 1 Bus
 - Q4 Comm 2 Bus
 - Q4 Comm 3 Bus
 - Q4 Comm 4 Bus
 - Q4 Comm 4 -wire ground

Quattro 3 phase setup programming
The 3 phase setup programming has to be completed with Victor's VE-Bus Quick Configure before the VE-Bus BMS assistant is loaded into each Quattro 1.

Quattro programming with VE Configure
The VE-Bus BMS assistant has to be added to each Quattro with Victor's VE Configure after completion of the 3 phase setup.

Recommended AC Out-2 cable/breaker size Quattro's
AC Out-2 only is available when power is present on AC IN-1 or AC IN-2. During battery operation it will be disconnected. AC Out-2 supports up to 60A per phase and is adjustable. An Earth leakage with breaker or a combination MCB/RCD must be installed on the output. Cable size must be adjusted accordingly.

Recommended AC Out-1 cable/breaker size Quattro's
Watt Power assist each Quattro can add 80W to the output load per phase when needed. Together with the adjustable 10A input this all adds up to the max sum of input and output current of 10A + 12.5A per phase. An Earth leakage with breaker or a combination MCB/RCD must be installed on the output. Cable size must be adjusted accordingly.

Recommended DC cable/breaker size Quattro's
6.8 m cable length: 4 x 95SDmm
5-10 m cable length: 4 x 95SDmm
Cable length stands for the distance between the battery connections and the Quattro connections. Recommendations are without other loads in the system and these also should be taken into account for proper main battery, main fuse & main breaker and cable size for AC IN-1 & AC IN-2 should be adjusted accordingly.

Recommended AC IN-1 & AC IN-2 cable/breaker size Quattro's
AC IN-1 & AC IN-2 both must be protected by a circuit breaker rated at 100A max per phase or less. This depends heavily on the size of the connected power source. The input currents must be adjusted to fit the size of the connected power source. The breaker and cable size for AC IN-1 & AC IN-2 should be adjusted accordingly.

WARNING
230-240VOLT IS EXTREMELY HAZARDOUS. DO NOT TOUCH ANY LIVE WIRE OR PARTS OF THE INSTALLATION!! WHEN IN DOUBT, ALWAYS CONSULT YOUR VICTOR DEALER!!!

FOR A PROPER FUNCTION OF THE 3 PHASE QUATTRO CONFIGURATION, THE PHASE ROTATION FOR SHORE POWER AND GENERATOR POWER HAS TO BE CONNECTED CORRECTLY FOLLOWING L1-L2-L3.

- AC No Break Distribution
- AC Switched load Distribution

SHORE POWER CONNECTION
CEE Form 5 pole 16A