



The SmartBatteryProtect must be programmed for Li-Ion mode-C and 12 Volt either through programming on the device itself or with a Bluetooth enabled smartphone or tablet. Connect the load disconnect output of the Small BMS to Remote H terminal.

The smallBMS-NG is enlarged visible in this drawing.

There are several configuration options possible. Read the Orion-XS manual carefully and choose the one fitting your installation.

KEEP POSITIVE BATTERY CABLES ALL AT THE SAME LENGTH !

KEEP NEGATIVE BATTERY CABLES ALL AT THE SAME LENGTH !

Setup and change of settings trough Bluetooth
All Bluetooth accessible devices can be setup and monitored with use of the VE.Smart Network by using the freely downloadable Victron Connect App. When in doubt, consult your Victron dealer.

Recommended DC cable/fuse size Phoenix charger.
50A charger 0-4 m cable length: 16SQmm
Cable length stands for the total distance between the battery connections plus and minus and the Phoenix smart charger connections ! Fuse size should be 60-80A max.
Max cable size to connect is 16SQmm.

Recommended DC cable/fuse size Phoenix Inverter
800W inverter with 0-1,5 m cable length: 16SQmm
800W inverter with 1,5-3 m cable length: 25SQmm
Cable length stands for the total distance between the battery connections plus and minus and the Phoenix inverter connections ! External Fuse size should be 125-150A max.

Recommended AC cable/breaker sizes
AC Shore power IN must be protected by a MCB/RCD circuit breaker rated at 16A max or less depending on the size of the connected users. AC Inverter OUT also must be protected by a MCB/RCD circuit breaker combination rated at the size of the inverter. Cable sizes need to be adjusted accordingly.



WARNING
230 VOLT IS EXTREMELY HAZARDOUS DO NOT TOUCH ANY LIVE WIRED PARTS OF THE INSTALLATION ! WHEN IN DOUBT, ALWAYS CONSULT YOUR VICTRON DEALER !