



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

SMART BATTERY PROTECT 100

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.

IMPORTANT INFORMATION!
Standard Engine Installation
 With Alternator positive output connected to Starter motor connection 30/B+.
 Alternator & starter motor both are connected behind the Engine Main Switch.
 Other connection options are possible depending on owner preferences.

KEEP POSITIVE BATTERY CABLES ALL AT THE SAME LENGTH!

KEEP NEGATIVE BATTERY CABLES ALL AT THE SAME LENGTH!

VE Smart Network setup with VictronConnect App
 All Bluetooth accessible devices can be setup and added to your local VE Smart Network by using the freely downloadable VictronConnect App. When in doubt how to do this, consult your Victron dealer.

Recommended DC cable/fuse size IP43 Smart 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 IP43 Smart Charger connections! Fuse size should be 60-80A max. Max cable size to connect is 16SQmm.

Recommended DC cable/fuse size Inverter
 800W inverter with 0-1.5 m cable length: 16SQmm
 Cable length stands for the total distance between the battery connections plus and minus and the 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!

Drawing BJE-273A