Victron energy small bms

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The smallBMS can replace the VE.Bus BMS in several applications. It is however not suitable for use with VE.Bus MultiPlus and Quattro inverter/chargers: it has no VE.Bus interface. The smallBMS is intended for use with Victron Smart LiFePo4 batteries with M8 circular connectors.

Load Disconnect outputThe Load output is normally high and becomes free floating in case of cell under voltage (default 2,8V/cell, adjustable on the battery between 2,6V and 2,8V per cell). Maximum current: 1A. The Load output is not short-circuit protected.

The Load output can be used to control:o A high current relay or contactor.o The remote on/off input of a Battery Protect, inverter or DC-DC converter or other loads (a non-inverting or inverting on/off cable may be required).

Pre-alarm outputThe smallBMS has a pre-alarm output is normally free floating and becomes high in case of imminent cell under voltage (default 3,1V/cell, adjustable on the battery between 2,85V and 3,15V per cell). Maximum current: 1A (not short circuit protected).The minimum delay between pre-alarm and load disconnect is 30 seconds.

Charge disconnect outputThe Charger output is normally high and becomes free floating in case of imminent cell over voltage or over temperature. Maximum current: 10mA.The Charger output is not suitable to power an inductive load such as a relay coil.

System on/off inputThe system on/off input controls both outputs. When off, both outputs will be free floating so that loads and chargers are turned off.The System on/off consists of two terminals: Remote L and Remote H.A remote on/off switch or relay contact can be connected between L and H.Alternatively, terminal H can be switched to battery plus, or terminal L can be switched to battery minus.

To understand which size inverter you require, you will need to work out the wattage to match your requirements. To do this, you will need to add up the wattage of each 230V appliance you want to use, and find out their rated power draw. Usually the item manual will provide the wattage draw.

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