

Bms 12s lifepo4

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The Smart BMS 12/200 is an all-in-one Battery Management system for Victron Lithium-Iron-Phosphate (LiFePO₄) Smart Batteries. It has been specifically designed for 12V systems with a 12V alternator such as in vehicles and boats.

It combines a Current Limiter, Battery Combiner and Battery Protector in a robust and compact solution and lets you safely connect any size 12V alternator (and starter battery), loads and chargers to Smart Lithium batteries.

The Smart BMS 12/200 monitors and protects each individual battery cell within the battery (or battery bank) and will disconnect the alternator, charge sources or DC loads in case of low battery cell voltage, high battery cell voltage or over temperature.

The dedicated alternator connection provides current limiting and one-way traffic from the alternator into the battery, this so any size alternator (and starter battery) can be safely connected to the Smart Lithium battery (or battery bank) and the starter battery is protected from excessive discharge.

The BMS is equipped with Bluetooth for monitoring and configuration, a remote on/off connector, to turn the BMS (and the system) off via a remote switch and a pre-alarm contact, to give a warning signal before the BMS will disconnect the batteries from the system.

This function is similar to that of a Cyrix Battery Combiner or Argo FET Battery Isolator. Current can flow to the LFP battery only if the input voltage (= voltage on the starter battery) exceeds 13V. Additionally current cannot flow back from the LFP battery to the starter battery, thus preventing eventual damage to the LFP battery due to excessive discharge.

This Power Port can be used to either charge or discharge the LFP battery (i.e. via a charger, an inverter or inverter/charger) with a maximum continuous current of 200A in both directions. Can also be used as a load output, thus DC loads can be connected directly to this port. The port is short-circuit protected with a peak discharge current of 400A. The Smart BMS will make sure that the battery discharge will cut-off in case of imminent cell under voltage. The Smart BMS will enable charging through this port, but no charge algorithm can be applied internally.

Excessive input voltage and transients are regulated down to a safe level. The Smart BMS will stop charging in case of cell over voltage or over temperature. It has three outputs, similar to the smallBMS:

The Charge disconnect output is normally high and becomes free floating in case of imminent cell over voltage or over temperature. Maximum current: 10mA. The Charge disconnect output is not suitable to power



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an inductive load such as a relay coil. The Charge disconnect output can be used to control: the remote on/off of a charger, a Cyrix-Li-Charge relay, a Cyrix-Li-ct Battery Combiner. (Note: in some cases an interface cable will be needed, please see the manual.)

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