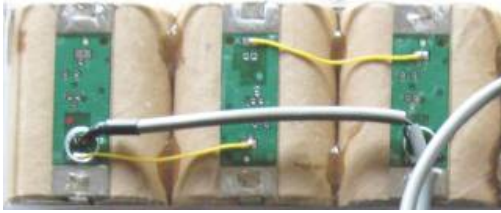


Elithion Lithiumate™

Battery Management System for large Lithium Ion packs



This off-the-shelf, sophisticated BMS will transform your Li-Ion or Lipo pack from a collection of cells to a true smart battery.

Description

Performs monitoring, evaluation, communication, balancing and protection of the battery.

Versatile:

- Compatible with most chargers, motor drivers
- Fully configurable, field programmable
- Supports all cell form factors
- Handles most Lithium chemistries
- CAN and RS232 communications

Safe:

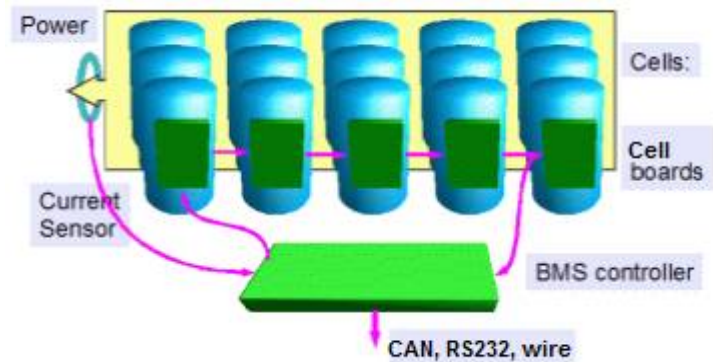
- Protects pack from over current
- Detects loss of isolation
- Distributed = few wires in HV pack

Easy to install:

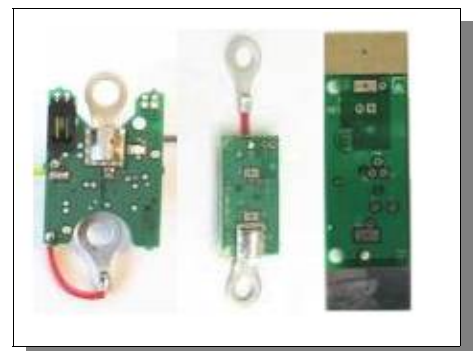
- Off the shelf components
- Single wire to adjacent cell boards

Life prolonging:

- Balances pack's SOC
- Protect pack from under/over voltage, charge and temperature



In its most basic form, the BMS consists of a BMS controller and a number of cell boards.



A wide array of cell boards is available to be mounted on cells of many form factors.



Elithion LLC

Electronics for Li-Ion

Phone: 1-303-413-1500. talk@elithion.com

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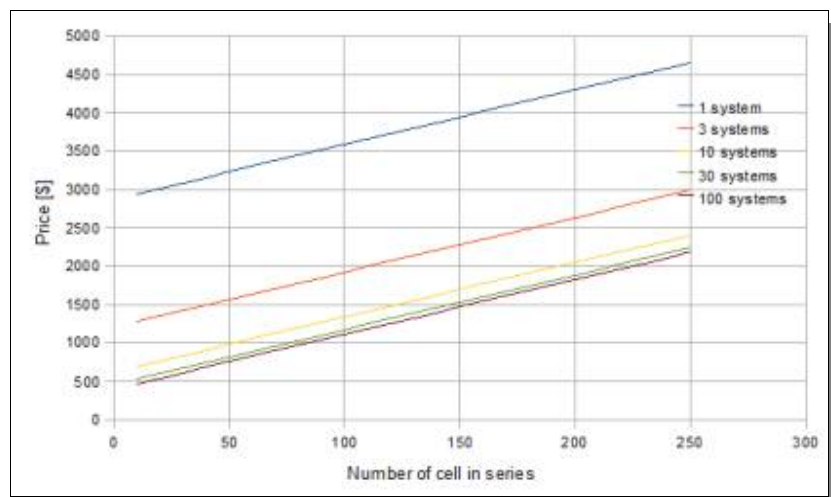
Specifications

Item	Value	Units
Controller		
Supply voltage	12	Vdc nom
12 V supply current	100	mAdc max
Control inputs' voltage	0 to 12	Vdc nom
Digital outputs' sink current	1.5	Adc max
Analog outputs' voltage	0 to 5	Vdc
RS232 rate	19200	baud
CAN rate	125, 250 or 500	kHz
Number of cells monitored	1 to 255	-
Operating temperature	-40 to +80	°C
Volume	0.8	liters
Current sensor		
Sensed battery current	5 to 600	Adc
Cell boards		
Cell voltage sensing range	2.09 to 4.54	Vdc
Cell voltage sensing accuracy	+/-10	mVdc
Cellboard temperature sensing accuracy	+/-2	°C
Cell current drain, standby	2.0	uA max
Cell current drain, operating	2	mA max
Cell current drain, balancing	200	mA nom
Battery isolation	2.5	kV

For complete details and specifications, please go to <http://lithiumate.com>

Prices

The Lithiumate BMS is competitively priced for medium and large quantities. In general, the price depends on the number of cells in series, and includes deep discounts for quantities of more than a few units.



Dec '09



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