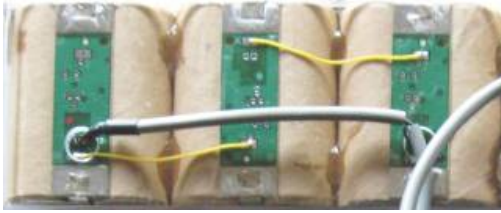


# Elithion Lithiumate™

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:

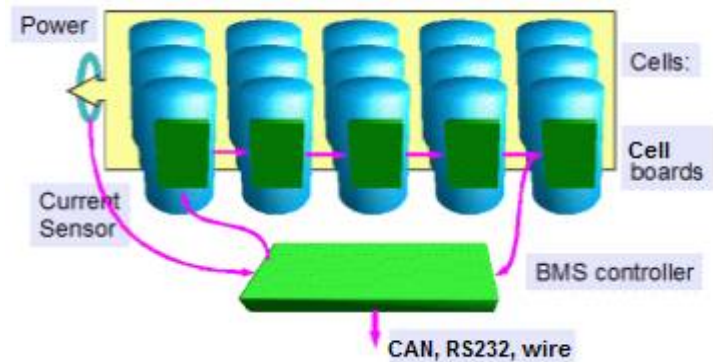
- Protects pack from over current
- Detects loss of isolation
- Distributed = few wires in HV pack

### Easy to install:

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

### Life prolonging:

- Balances pack's SOC
- Protects 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 Inc](http://www.elithion.com)

Electronics for Li-Ion

Phone: 1-720-466-7006, 1-888-800-7030. [talk](http://www.elithion.com) (at) [elithion.com](http://www.elithion.com)

3393 Iris Ave Ste 110, Boulder CO 80301 USA

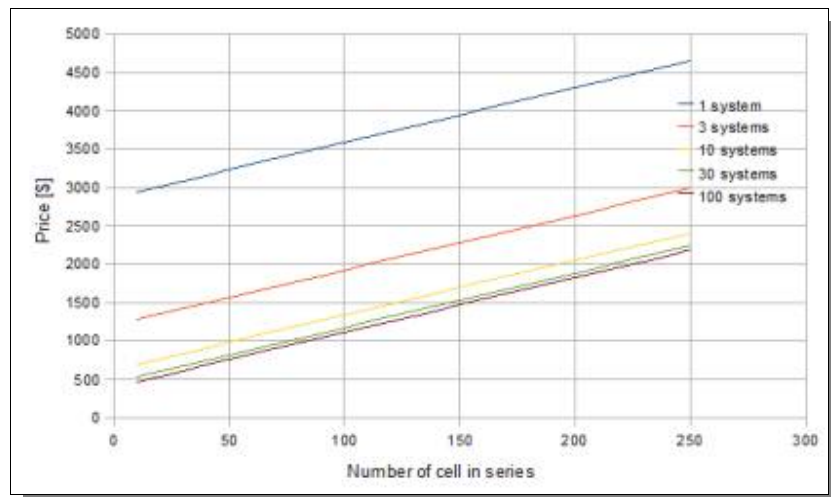
## Specifications

Item	Value	Units
<b>Controller</b>		
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
<b>Current sensor</b>		
Sensed battery current	5 to 600	Adc
<b>Cell boards</b>		
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.



Sep '11



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