

Elithion Lithiumate™ Lite

Battery Management System for Electric Vehicles



This BMS monitors, protects, evaluates and balances a Li-Ion battery pack for an electric vehicle.



High value

- Lowest price digital BMS
- Includes all you need: 2 current sensors, a power supply, meter drivers...

Safe

- Protects pack from over current ,over voltage, under voltage, over temperature, under temperature
- Distributed = few wires in HV pack
- Balances pack's SOC

Easy to install and configure

- No crimping required
- A cell board is mounted on each cell: measures voltage and temperature, balances the cell
- Single wire to adjacent cell boards
- USB port
- Graphics User Interface : 3 steps for basic set-up

Ideal for EVs

- Up to 200 cells in series (~ 700 V), in up to 8 banks
- Compatible with most chargers and most motor drivers



Elithion Inc
Electronics for Li-Ion
Phone: 1-720-466-7006, 1-888-800-7030. ask (at) elithion.com
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Specifications

Ignition supply	12 V nominal
AC supply voltage	85 to 265 Vac
Charger current	30 Adc max
Number of banks	8 max
Number of cells in series a bank	2 to 25
Number of cells in series in a battery	2 to 200
Pack voltage	950 V max
Pack current	900 A max
Regen support	Yes
On/off outputs, voltage	24 Vdc max (ground side), supply voltage (Plus side)
On/off outputs, current	3 A max (ignition powered) 0.3 A (AC powered)
Meter outputs	0 to 5 V
Sender output (to car fuel gauge)	0 to 300 Ohm
Throttle reduce output	Open (no reduction) to 100 Ω (max reduction)
High voltage isolation	1000 Vdc (500 Vdc for Throttle reduce output)
Cell voltage measurement	2.1 to 4.5 V
Cell board temperature measurement	-40~85°C
Balancing current	~200 mA
High voltage isolation	1000 Vdc
Reverse installation protection	Fuse

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

Ordering

The Lithiumate Lite BMS costs as low as \$ 388 (12 x 40 Ah cells in 1 bank), making it the lowest cost digital BMS in the market. To order, visit http://elithion.com/lithiumate_lite_ordering.php, specify a BMS that meets the needs of your application, and order from an Elithion authorized reseller.

The Lithiumate Lite is for EVs that use prismatic cells in a single series string, and do not need a CAN bus. For other applications, the Lithiumate Pro is required.

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