

Lithium Ion SuperPolymer® Battery & Systems Technology

- **Proprietary Technology Platform**

Lithium Ion SuperPolymer®

Electrovaya's technology breakthrough and its >150 patents provide the basis of a technology platform that is independent of both the anode and cathode chemistry. As a result, Electrovaya offers multiple chemistries and is well positioned to take advantage of future nanomaterial developments.

- **Cell Design**

Prismatic, Pouched

Electrovaya only manufactures flat "prismatic" cells. This cell design provides superior scale-up capabilities, excellent thermal and better safety properties than the more common cylindrical cell design.

- **Multiple Chemistries**

MN-Series*

Energy Density: 170 to 210 Wh/kg

Peak Power: up to 2000 W/kg for 10 seconds

Phosphate-Series

Energy Density: 110 to 140 Wh/kg

Cobaltate-Series

Only available for small cells

* The MN-Series, a lithiated manganese material, is Electrovaya's recommended solution for transportation. It offers up to 50% greater energy density with comparable safety characteristics to the Phosphate-Series.

- **Multiple Optimizations**

Balanced Energy-Power: up to 2C continuous, up to 10C pulse
Energy Optimized also available

- **Battery Management System**

The integrated intelligent battery management system optimizes and protects the battery system. This CANbus-enabled solution provides system equalization and optimization, protection (over-voltage, under-voltage, thermal management, etc.) and interface communications.

- **System Design**

Electrovaya offers an integrated solution of power electronics, systems engineering design, electrochemistry and power systems design

- **Sizes**

Cell: 2 Ah to 200 Ah

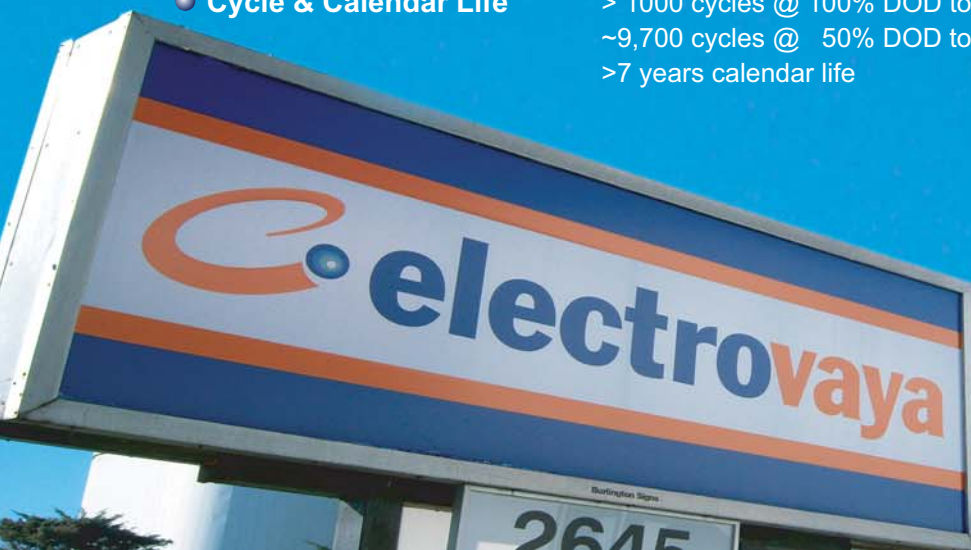
Module (with integrated BMS): 0.5 kWh and up

- **Cycle & Calendar Life**

> 1000 cycles @ 100% DOD to 80% capacity

~9,700 cycles @ 50% DOD to 80% capacity

>7 years calendar life



sales@electrovaya.com www.electrovaya.com

2645