

Lithium Ion SuperPolymer® 2.0 Cell Technology

- **Proprietary
Technology Platform**

Lithium Ion SuperPolymer® 2.0

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**

Pouched

Electrovaya only manufactures flat "pouched" cells. This cell design provides superior scale-up capabilities, excellent thermal management, and improved safety properties over the more common cylindrical cell design.

- **Advanced
Materials**

MN-Series*	Energy Density:	170 to 210 Wh/kg
	Peak Power:	up to 2000 W/kg for 10 seconds

* 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 phosphate-based cells.

- **Multiple
Optimizations**

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

- **Safety**

Electrovaya SuperPolymer® 2.0 is designed for enhanced safety. It contains upgraded materials that reduce the risk of fire and related incidents.

- **Cycle & Calendar Life**

>1000 cycles @ 100% DOD to 80% capacity
~9,700 cycles @ 50% DOD to 80% capacity
>7 years calendar life

- **Clean Manufacturing**

Electrovaya's unique clean manufacturing process does not use *N-Methyl Pyrrolidone* (NMP) which has been found to be a reproductive toxicant

