

Electrovaya - Cell Offerings

Powered by Infinity Lithium-ion Ceramic Technology



Electrovaya Cell Advantages

- Extraordinary safety characteristics achieved through a thermally stable full ceramic separator
- Superior cycle and calendar life that are ideal for long-term and demanding applications
- UN38.3, and UL2580 Recognition

Specifications

	EV-52-E	EV-51	EV-FP-44
Cell Technology	NMC Cathode (Graphite Anode)	NMC Cathode (Graphite Anode)	LFP Cathode (Graphite Anode)
Nominal Capacity @ 0.2 C-rate	54 Ah	51 Ah	44 Ah
Gravimetric Energy Density	> 215 Wh/Kg	210 Wh/kg	165 Wh/kg
Voltage range (min, nominal, max)	3.0, 3.7, 4.2 V	3.0, 3.7, 4.2 V	2.5, 3.2, 3.65 V
Charge Rates**	Continuous: 2C (0-90%SOC), <3C (20-70%SOC), Pulse: 4C for 30 sec	Continuous 0.4 C, Pulse 2C for 30 sec	Continuous 1C, Pulse 3C for 60 sec @ 50%SOC
Discharge Rates**	Continuous: 3C, Pulse: 5C for 5 min & up to 6C for 30 sec (@ 50%SOC)	Continuous 0.5 C, Pulse 2C for 30 sec	Continuous 2C, Pulse 5C for 60 sec @ 50%SOC
Cell Operating Temperature***	DChg: -30 °C to 55 °C (-22 °F to 131 °F) Chg: 0 °C to 55 °C (32°F to 131 °F)	DChg: -30 °C to 55 °C (-22 °F to 131 °F) Chg: 0 °C to 55 °C (32°F to 131°F)	DChg: -30 °C to 55 °C (-22 °F to 131 °F) Charge: 0 °C to 55 °C (32°F to 131°F)
Cycle life**	>9,000+ cycles at 1C depending on the SOC%	>9,000+ cycles at 1C depending on the SOC%	>5,000+ cycles at 1C depending on the SOC%
Dimensions LxWxT	249 x 155 x 12 mm	261 x 216 x 7.9 mm	249 x 155 x 12 mm
Weight	920 +/- 25 g	895 +/- 25 g	850 +/- 25 g

* Pre-production, specs subject to change

** May vary depending on the application and the operating conditions

*** Subject to de-rate depending on the temperature