

DESCRIPTION

Target Cell Chemistry	NMCs, NCA/Gr+Si
Additive Function	Long cycle life Low resistance
Target Product	Li-ion cells for E-mobility, ESS, UAVs
Application	Long cycle life Supplement/replacement for fluoroethylene carbonate

ADDITIVE SPECIFICATIONS

Additive Purity	≥ 99.9%
Impurities	H ₂ O < 50 ppm, HF < 20 ppm
Recommended Use Range	0.5 to 5%
Handling and Use	Handle in dry room or glovebox. Do not expose to moisture or air.
SDS	Provided with product
Packaging/Labeling	Complies with local shipping regulations
Availability	Product available upon request. Lead time is 2 to 4 weeks.

TESTING PARAMETERS

Cycle Life: 25°C, 1C/1C cycling (CV cut-off C/10)

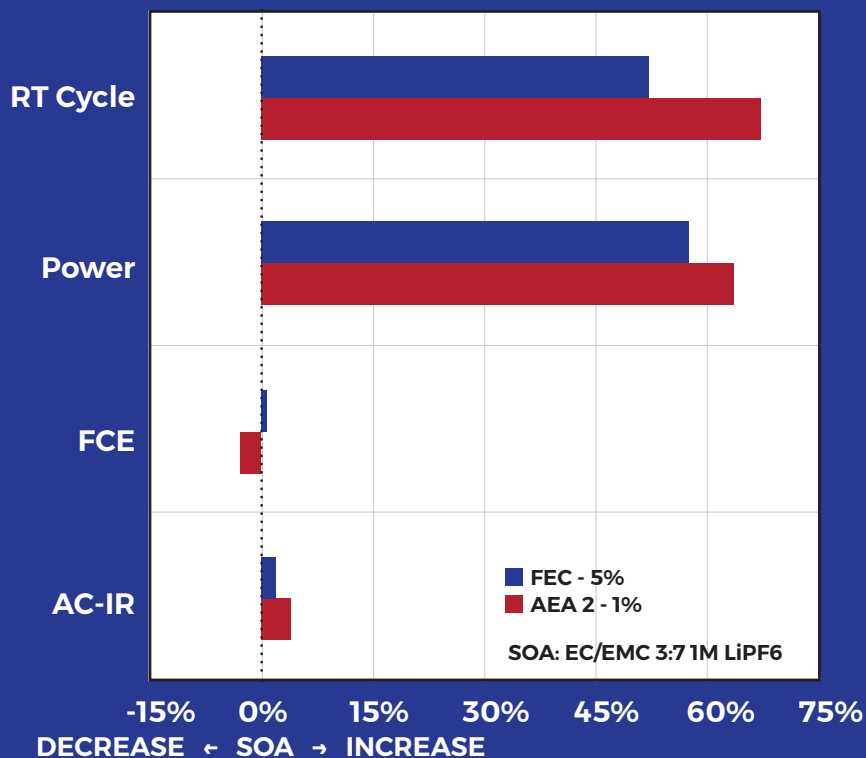
Power: 10 sec. 1C pulse discharge at 50% SOC

FCE: First cycle efficiency, the ratio of the first discharge capacity over the first charge capacity

AC-IR: 1 kHz at 50% SOC

Cell Configuration: 1.6 Ah capacity; stacked plate pouch cell, NMC811 – Si (10%) + graphite, 2.7 to 4.2V

- Cathode loading: 28.98 mg/cm²
- Anode loading: 19.22 mg/cm²
- Estimated energy density: 451 Wh/L
- Estimated specific energy: 235 Wh/kg



Case study data examples are available upon request.

For further application information and product details, please email info@sionicenergy.com.