

# BATTERY SHOW 2022

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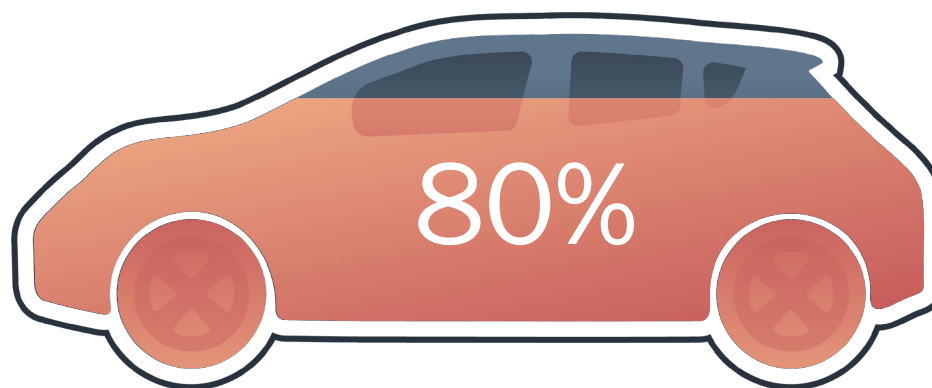
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# Faster Charge

80% Capacity in a 15-minute Charge meets Department of Energy targets for fast-charge capability.



Cell State-of-Charge  
15-minute Charge



**Format:** Coin cell with Li metal anode & glass fiber separator; **Electrode Formulation:** 90% total active material/5% PVDF/5% conductive carbon (TENIX cathode has 10% TENIX™/90% NMC811 blended active material); **Loading:** 8.4 - 10.1 mg/cm<sup>2</sup> total active material; **Electrolyte:** LiPF<sub>6</sub> carbonate blend; **Test Temperature:** 25°C; **Test Protocol:** 5x at each rate, symmetric charge/discharge; **Specific Capacity Calculation:** Mass of NMC811 + TENIX™

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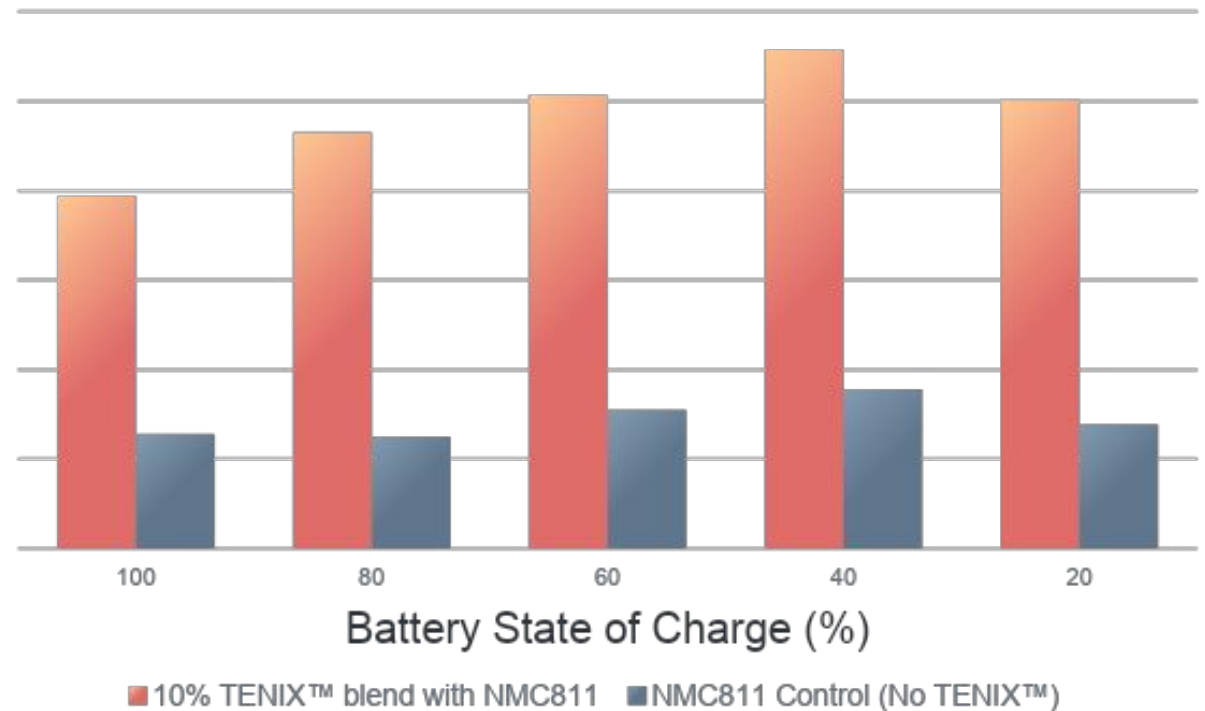
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# Better Low Temperature Performance

3x More Conductive in Freezing Conditions with TENIX™ than NMC811 alone. Enhanced conductivity across ALL states of charge can lead to expanded SOC utilization.

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## 3x More Conductive in Freezing Conditions with TENIX™



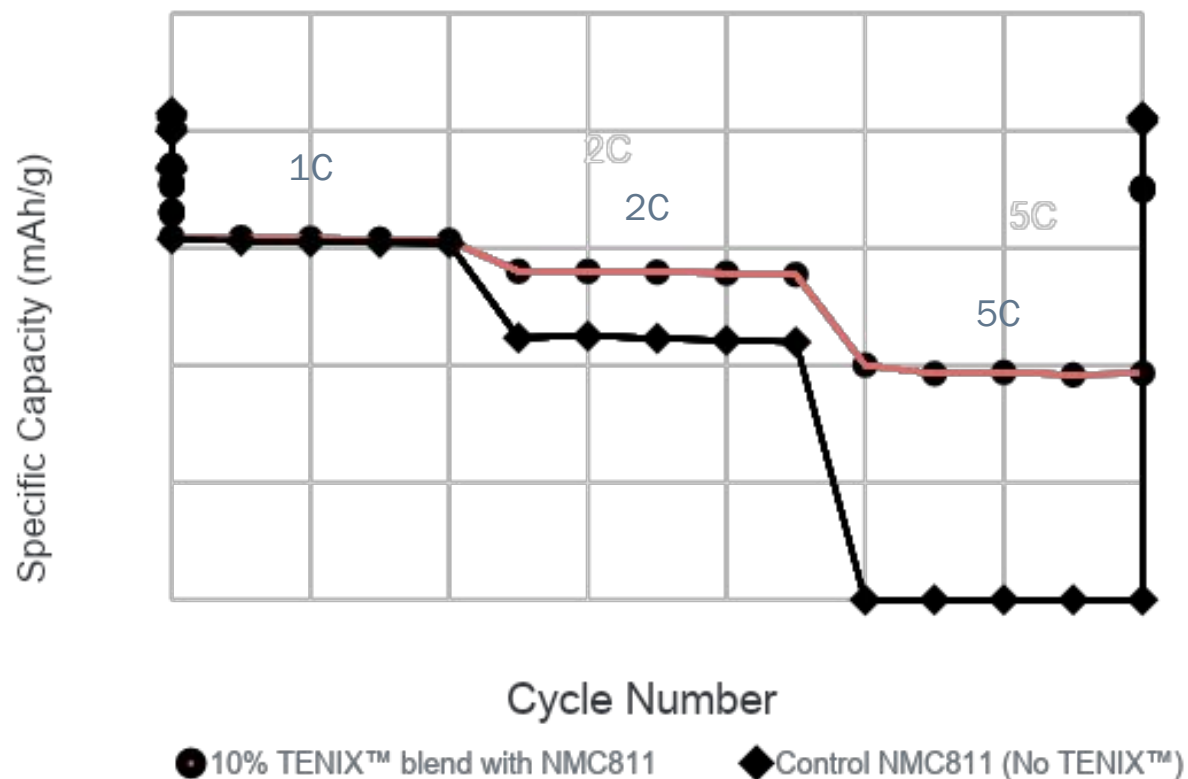
**Format:** Coin cell with Li metal anode & glass fiber separator; **Electrode Formulation:** 90% total active material/5% PVDF/5% conductive carbon (TENIX cathode has 10% TENIX™/90% NMC811 blended active material); **Loading:** 8.5 - 10.5 mg/cm<sup>2</sup> total active material; **Porosity:** avg 35%; **Electrolyte:** LiPF<sub>6</sub> carbonate blend; **Test Temperature:** 0°C; **Test Protocol:** USABC HPPC (1C, 30 sec) Discharge Pulse



# More Power

More power on demand than NMC811 alone. TENIX™ gets stronger when traditional cathodes get weaker.

## Power On Demand with TENIX™

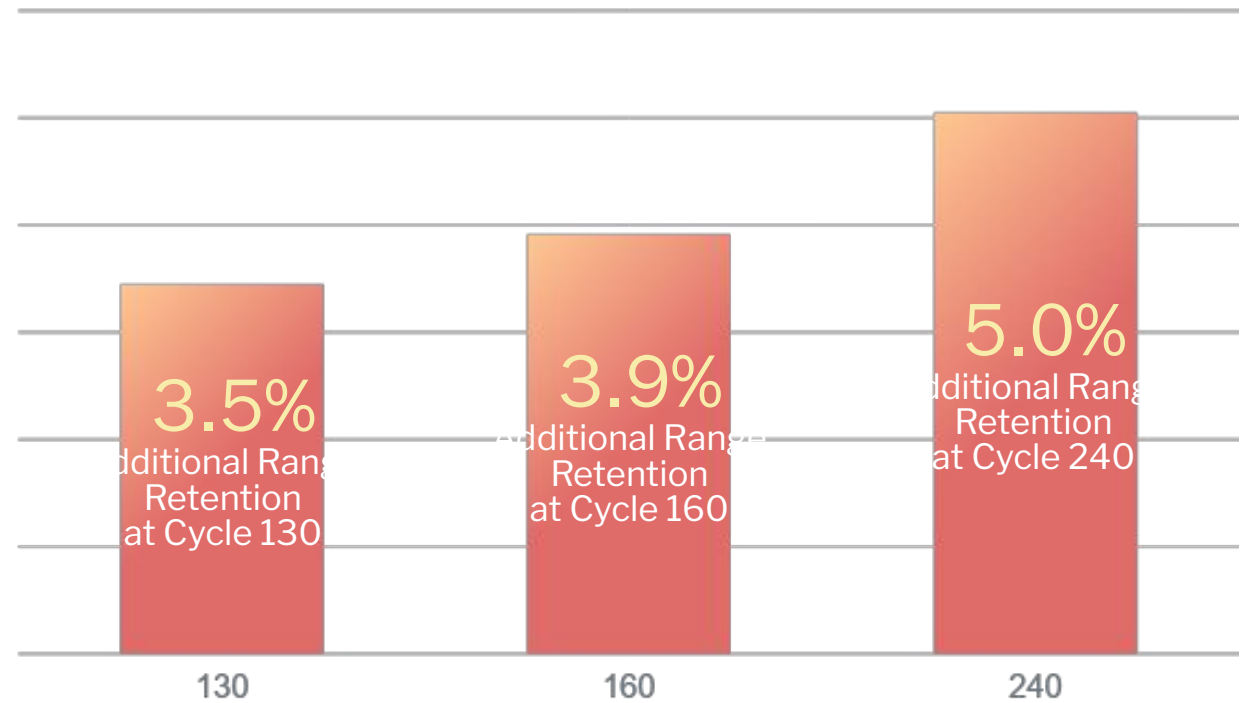


**Format:** Coin cell with Li metal anode & glass fiber separator; **Electrode Formulation:** 90% total active material/5% PVDF/5% conductive carbon (TENIX cathode has 10% TENIX™/90% NMC811 blended active material); **Loading:** 8.5 – 10.1 mg/cm<sup>2</sup> total active material; **Electrolyte:** LiPF<sub>6</sub> carbonate blend; **Test Temperature:** 25°C; **Test Protocol:** 5x at each rate, symmetric charge/discharge; **Specific Capacity Calculation:** Mass of NMC811 + TENIX™

# Improved Range Retention

TENIX™ blended cells retain more energy cycle-to-cycle than LFP alone.

## TENIX™ Retains and Improves Range



**Format:** Coin cell with Li metal anode & glass fiber separator; **Electrode Formulation:** 90% total active material/5% PVDF/5% conductive carbon (TENIX cathode has 10% TENIX™/90% LFP blended active material); **Loading:** 5.8 - 6.4 mg/cm<sup>2</sup> total active material; **Electrolyte:** LiPF<sub>6</sub> carbonate blend; **Test Temperature:** 25°C; **Test Protocol:** C/3 symmetric cycling, 2.5 - 4.1V