

Robust, High SWaP Li-ion Cell Technology for Dead Bus-Recoverable, BMS-Optional Satellite Batteries

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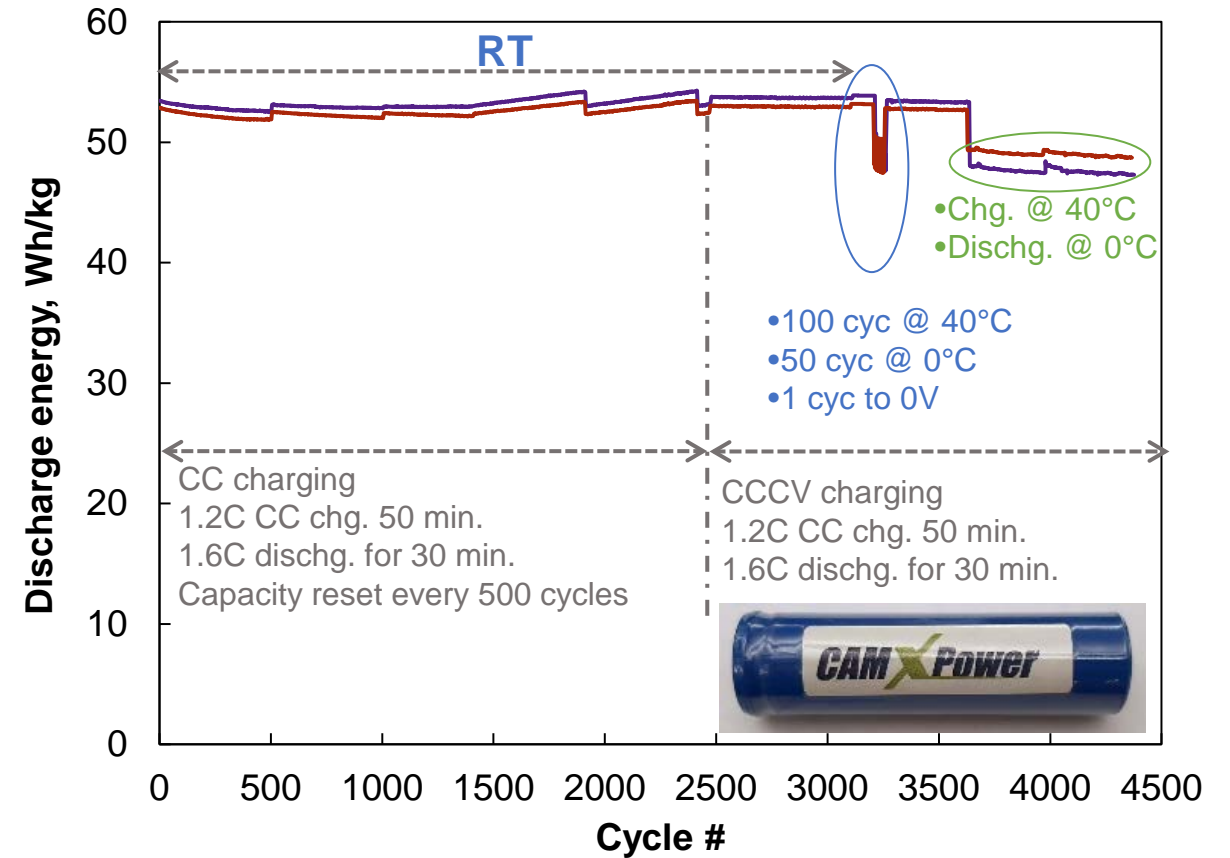
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CAMX Power has developed CELX-RC™ Li-ion cell chemistry for satellite batteries.

- **CELX-RC™ cell chemistry combines:**
 - gLNO™ high-Nickel cathode material¹
 - LTO anode material
 - Engineered electrolyte
- **Cell chemistry is capable of:**
 - Multiple discharges to zero-V
 - Tolerating cell voltage reversal (e.g., -3 V)
 - Charging and discharging at -50°C
- **Cell chemistry implemented in:**
 - 18650 cells
 - Up to 10 Ah laminate pouch cells

Cycle life of CELX-RC 18650 Cells² Satellite-Relevant Conditions (10 - 90% SoC Range)

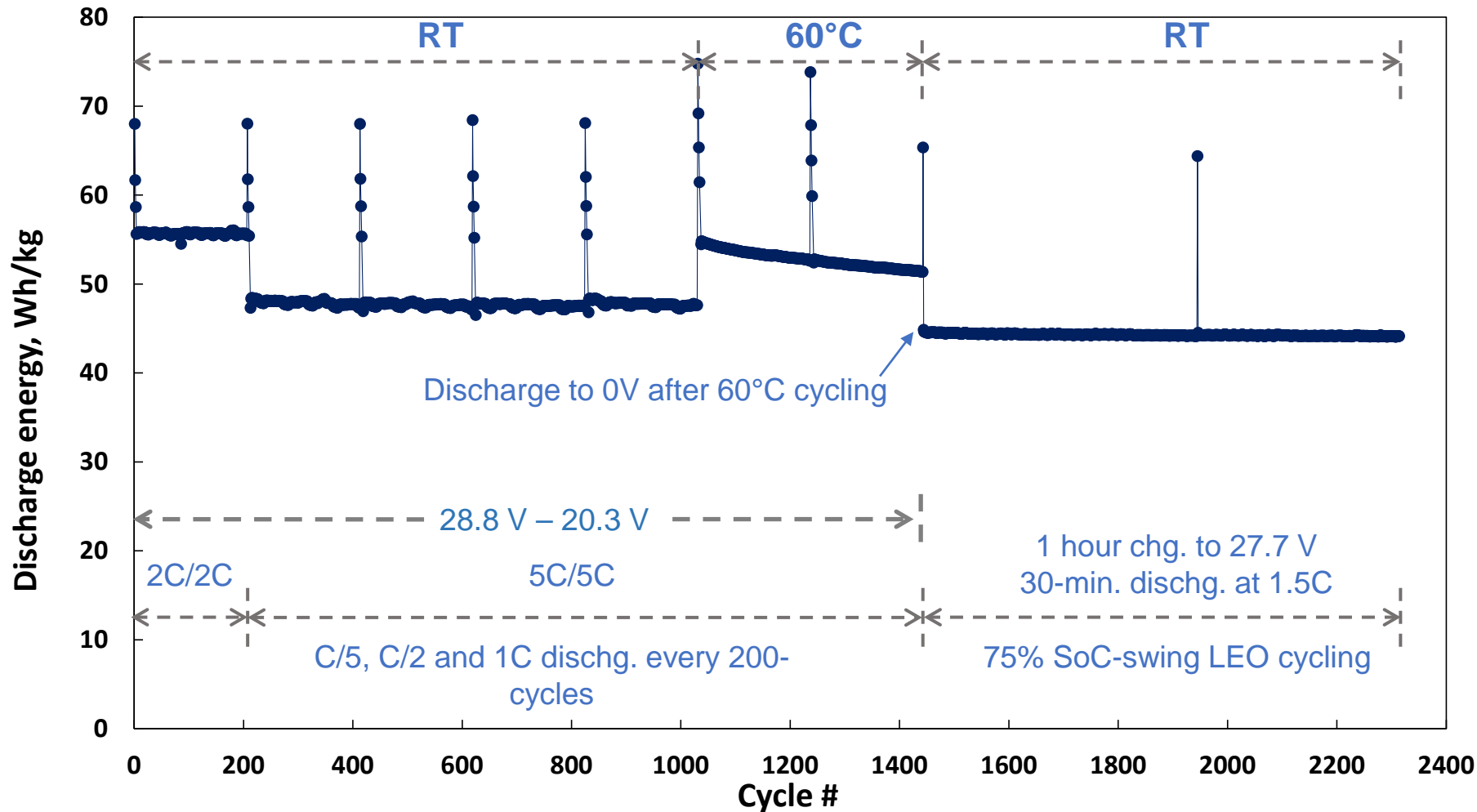


¹ Cathode material based on CAMX Power's GEMX platform. CAMX has granted non-exclusive licenses to the GEMX technology to Johnson Matthey and Samsung SDI.

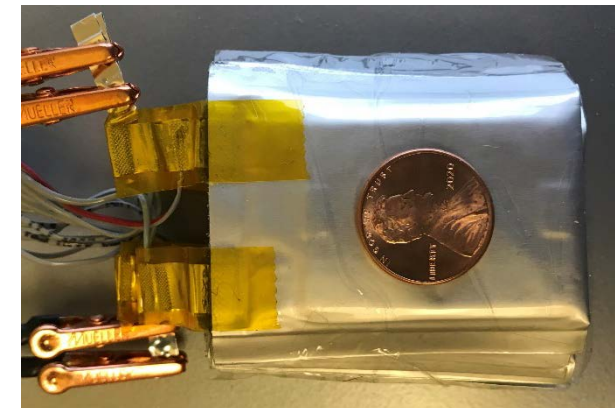
² Data for two cells shown

Robust cycling of unmanaged, un-fixtureed series-cell stack under varied rates and temperatures.

Cycling of 11-series CELX-RC Pouch Cells Without Balancing

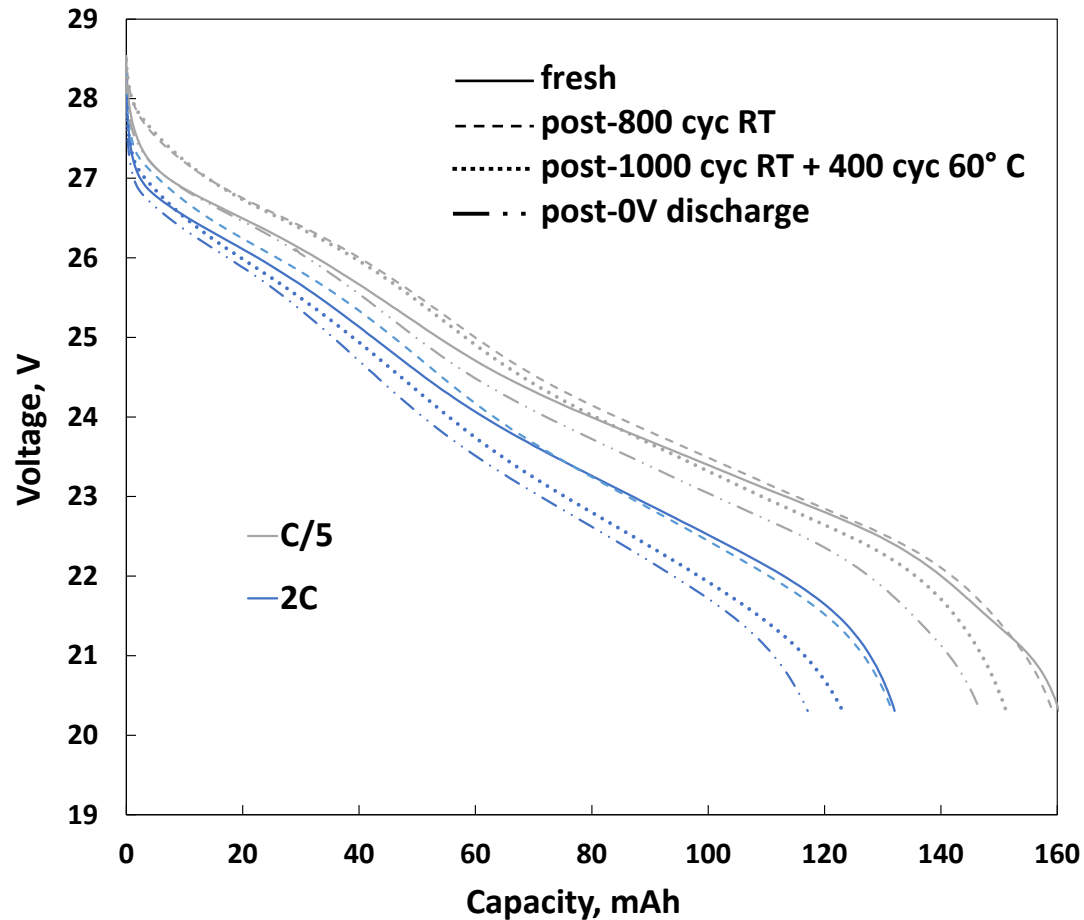


- 11-S pouch cells (160 mAh).
- BoL: 0.3% capacity variance.

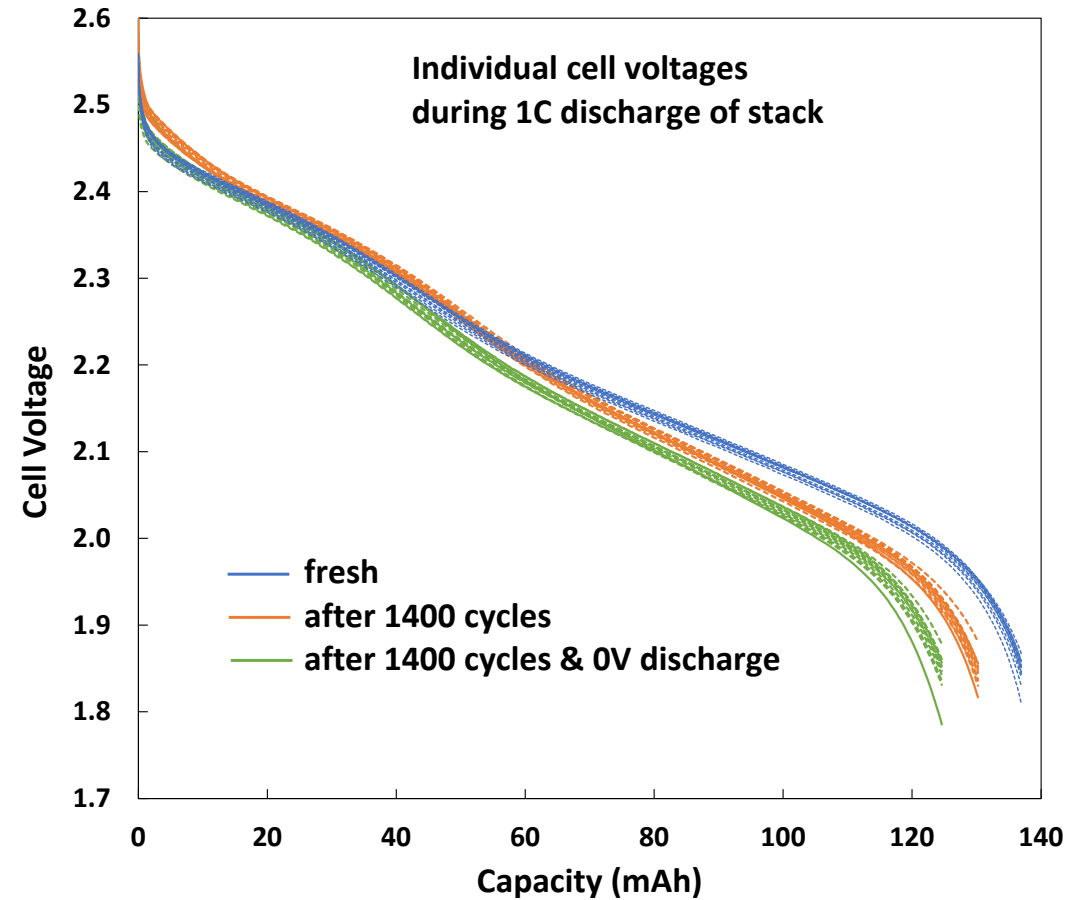


Unmanaged, unbalanced cell stack recovers well from 0V discharge with only minimal cell divergence despite aging.

Cell stack shows moderate aging after 60 °C cycling



Only slight cell divergence after 0V discharge of aged stack



Demonstrating potential to recover from dead bus event under very unfavorable conditions.