Multiphysics Battery Testing – How to optimize existing high performance cells with precise thermal, electrical and mechanical conditioning.

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A novel testing equipment enables advanced multiphysics battery cell characterization with unmatched range and precision. The ability to thermally, mechanically, and electrically condition various cell types introduces a new dimension to testing scenarios. Incorporating solid-state heat pumps ensures precise temperature control from -20 to +70 degrees Celsius, along with pressures up to 15 Mpa. This fully automated machine allows for comprehensive testing of swelling, aging, mechanical properties, and thermal characterization within a single platform.