Lithium-Ion Batteries
Compact, Lightweight, Long Lasting, Safe
Innovative Technology

AllCell designs and builds cutting-edge lithium-ion battery packs for transportation and renewable energy applications. All of our batteries are protected by our patented thermal management technology, which allows AllCell to produce lightweight and compact battery packs with extended cycle-life and industry-leading safety.

AllCell’s phase change material (PCM) rapidly absorbs and conducts heat away from battery cells, preventing overheating.

Compact & Lightweight

AllCell batteries combine the highest quality cells with our proprietary thermal management system to deliver industry-leading energy density. Using high energy-density cells and packing them closely together is impractical for other manufacturers because of the increased heat generation within a small space, but AllCell’s PCM technology effectively and efficiently manages the heat.

Long Lasting

Whether generated by cell discharge or absorbed from the environment, heat is the enemy of battery life. By ensuring temperature uniformity across cells and limiting maximum cell temperature, AllCell’s PCM technology extends battery cycle life by over 50%, dramatically increasing return on investment for our customers.

Safe

AllCell’s PCM technology stops the propagation of thermal runaway within the battery pack by rapidly absorbing and distributing heat. AllCell’s passive thermal management operates even when the system is turned off, making it more effective than the liquid cooling systems prevalent in today’s electric cars.

Across a variety of demanding applications, AllCell batteries deliver exceptional performance and reliability.

Light Electric Vehicles

AllCell batteries are ideal for bicycles, scooters, motorcycles, and neighborhood electric vehicles, providing an ideal combination of energy density, power density, and cycle life.

• Extended drive range
• Reduced vehicle weight
• Increased cycle life and reduced customer returns
• Reliable in hot and extreme environments
• In-frame and custom geometries

Renewable Energy Storage

Whether on-grid or off, stationary or mobile, AllCell batteries deliver exceptional performance and reliability. Ideally suited for applications with high discharge rates, in remote locations, or hot environments, AllCell’s lithium-ion batteries are increasingly displacing lead acid systems around the world.

• Reduced total cost of ownership
• 25% the weight of equivalent lead acid systems
• Extended cycle life
• Resilient in hot and extreme environments
• Smart grid and frequency regulation capability
• Modular design

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What We Do

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Design & Joint Development

Designing a new product or application is time-consuming. AllCell’s expert technical team includes mechanical, electrical, chemical, and computer science engineers accustomed to demanding deadlines and the highest quality requirements. Batteries can be complicated, and you have plenty to worry about, so let us remove battery design from your to-do list. Let your design team focus on the other components of your product while AllCell’s experienced team takes care of the battery.

Test & Evaluation

AllCell works with a wide variety of cell brands, chemistries, and form factors. Before any new cell is approved for use in one of our batteries, it is put through a rigorous program of performance and destructive testing. Our testing engineers, cell cyclers, environmental chambers, nail testing rig, and accelerating rate calorimeter are all available to help our customers from initial cell selection to final pack testing and validation.

Cool By Design.