

Durathon™ Battery Technology

energy storage, reinvented



Durathon batteries offer a more reliable, cost-effective solution for mission-critical power backup.

The word “continuous” is an apt description of our commitment to provide new solutions to the most persistent challenges, and Durathon batteries embody this commitment. Our technology is so dependable and long-lasting that it’s opening up exciting new applications in the UPS market. Durathon batteries are designed to be integrated with modern UPS systems, so there are minimal switching costs besides figuring out what to do with all the space they free up. More important, they have the ability to set a new standard for service life, sustainability and compactness. With minimal maintenance required, no toxic waste, and at just one-half the size of wet-cell batteries, Durathon is a back-up power source whose time has come. Over the next two decades, as businesses are replacing their lead acid batteries three or even four times, you will still be enjoying your Durathon batteries—a vital, reliable constant in an ever-changing world.

DURATHON'S TOTAL COST OF OWNERSHIP ADVANTAGE OVER LEAD ACID BATTERIES

DURATHON
10 times longer cycle life than conventional lead acid batteries
Temperature independent, with a full performance operating range of -20°C to +65°C
Minimal maintenance needed over the life of the battery
No battery room cooling required, eliminating the corresponding HVAC equipment & operating costs
½ the footprint & less than ½ the weight of present wet-cell technology

LONG LIFE AND HIGH RELIABILITY

Durathon batteries have an extended cycle-life capability —greater than ten times that of conventional lead-acid batteries. Its breakthrough design enables the battery to keep functioning even if individual cells fail, offering a more reliable solution for energy backup.

TEMPERATURE INDEPENDENT

Durathon batteries are capable of functioning in the most extreme temperatures without any loss in performance or life. It does not need an expensive controlled environment for peak performance, delivering greater performance while minimizing operating costs.

MINIMAL MAINTENANCE

With remote-monitoring capabilities, Durathon batteries need no service contracts, greatly reducing their operating expense compared with wet-cell energy backup solutions. In addition, they produce no toxic chemicals, are fully recyclable, and require no costly disposal.

SMALL FOOTPRINT

Durathon batteries have half the foot print and less than half the weight of wet-cell batteries, delivering all of the power and energy that your operations need in a much smaller package. Providing the energy you need in a smaller space will enable companies to reduce their overhead costs, particularly in urban areas.



Suitable for Extreme Temperatures



Small Footprint



Long Life



High Energy Density



Designed for High Reliability



Minimal Maintenance



About Durathon

For more than 100 years, GE Transportation has been passionately committed to innovations that make the world a better place. Durathon battery technology, the latest chapter in our proud history, emerged from our focus on energy storage. Sodium battery technology has been in existence for nearly 30 years, but GE's acquisition of Beta R&D in 2007 jump-started its application for mobile and stationary energy storage. This technology represents an important milestone; we truly believe that energy storage will never be the same.

What began as a quest for a power source that could conform to the limited space and rigorous demands of our hybrid locomotives has taken on a life of its own. Utilities see Durathon as part of their solution to an aging power grid and as a tool to realize the promise of alternative energy sources. Telecoms can extend service to new customers in places once deemed to remote or cost prohibitive. And as an uninterrupted power source (UPS), Durathon offers the promise of greater reliability in a more sustainable package. We see these uses as just the beginning: we're currently working on exciting applications of Durathon technology for the rail, marine, mining and transportation sectors.

Realizing the full benefits of such a game-changing technology often requires collaboration. That's why we're working closely with industry leaders to understand all of Durathon's applications. We are also entering into joint development agreements with the public sector to extend Durathon's reach and impact. With these collective efforts, we are contributing to a brighter future for people around the world.

For more information, please visit www.geenergystorage.com.



Inside the GE Battery Lab



imagination at work

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