



Lithium Battery 15 Popular Uses and Applications

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Nowadays, it's safe to say that we are more reliant on modern technology than ever before, and that is not going to change anytime soon. We rely on technology for all manner of everyday tasks, yet one thing we take for granted is the power needed in order for this tech to operate.

Take our smart phones for example. If two decades ago, you'd told somebody that they would use their phones to do their banking, pay for everyday essentials, and even monitor their own health, they'd have looked at you as if you'd lost your mind. Fast forward to today however, and that's exactly where we're at.

As reliant as we are on modern tech, the unsung heroes of the tech world are the lithium batteries used to power the devices in the first place. It isn't just tech gadgets that can benefit either. We also find that solar energy, forms of transport, and even medical devices are also only operational thanks to a lithium battery.

Developed by Akira Yoshino, Stanley Whittingham, and John B. Goodenough, lithium batteries helped to revolutionize the modern world and help bring rechargeable power to the forefront of modern living. The invention was so significant in fact, that the trio were awarded the Nobel Peace Prize in Chemistry, for this very invention.

These batteries use metallic lithium ions as primary components as anodes. Because of their light weight and high energy density, lithium batteries have become hugely popular as far as rechargeable energy is concerned.

Used in a number of different ways and devices (more on those later) you'll find that lithium batteries operate on basic principles of intercalation and deintercalation of lithium ions from positive electrode materials along with negative electrode materials. There are different types of lithium batteries out there, including lithium-ion phosphate batteries, though in terms of cost-effectiveness, lithium ion batteries from reputable battery supplier companies, are the most common.

Lithium-ion batteries, known for their energy storage proficiency, are a perfect fit for stockpiling surplus energy harvested by solar panels. Even during sunless days or unexpected equipment maintenance, these batteries ensure there's no power interruption. Their compatibility with solar panels' charging nature and their swift charging capability make them indispensable. The rapid charge rate of lithium batteries further enables users to harness every ounce of solar power, optimizing energy storage during every sunny moment.

Despite technological advancements, power inconsistencies and outages remain prevalent. This is where lithium batteries come into play, proving indispensable for UPS or emergency power backup solutions.



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Choosing a lithium battery over traditional generators ensures almost immediate power availability. This becomes vital when it comes to running crucial equipment that mandates uninterrupted power, including medical instruments, communication devices, and computing systems.

Gone are the days when monitoring remote areas, vehicle fleets, or shifting job sites depended solely on a direct electricity connection. Today, Li-ion batteries have emerged as a reliable power source for surveillance and alarm systems, especially in places devoid of an electrical network.

What sets Li-ion batteries apart? Their compactness, impressive lifespan, and minimal self-discharge even when the system remains dormant. In comparison to conventional lead-acid batteries, lithium-ion variants exhibit a self-discharge rate that's a whopping ten times lower. Hence, for intermittently used systems, lithium batteries are the go-to choice.

Digital cameras rely heavily on lithium-ion batteries. In fact, without them, they wouldn't work at all. Companies such as Nikon and Canon would not be where they are today if it were not for the invention of the humble lithium battery.

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