Li ion battery vs lithium

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Lithium batteries use metallic lithium in the electrodes. Li-ion batteries use a nonmetallic compound of lithium ions. This makes Li-ion lighter and more energy dense, with higher charge density. Li-ion can be...

Lithium batteries are ideal for low-drain devices requiring single-use power, while lithium-ion batteries are best for high-demand electronics that need recharging. Lithium batteries are cheaper for applications...

Batteries are an incredible resource of the modern-day, they power everything from cell phones, to wireless automatic vacuum cleaners, to all different types of cameras. There are numerous different varieties of battery which serve many different purposes, but two we hear about more than any are lithium and lithium-ion batteries. You might have had to make a decision in the past regarding these two different battery types, but do you really know what they are?

To get the most out of your batteries, it"s a good idea to have some knowledge about Lithium and Lithium-ion batteries which come in all shapes and sizes like 95Wh batteries and 190Wh batteries. We"ll explain everything you need to know about Lithium batteries and their Lithium-ion cousins, including how they work, what they"re made from, and even how to recycle your old used batteries. Then, we"ll lay out the important differences between Lithium and Lithium-ion batteries, so you can make an informed decision about which to use.

To understand the similarities and differences between Lithium and Lithium-ion batteries, you need a basic understanding of what constitutes a battery, and how they work. All batteries are made up of the same three basic components; the anode (negative - side), the cathode (positive + side), and some sort of electrolyte. When the cathode and anode of a battery are connected to an electrical circuit, a chemical reaction occurs between the anode and electrolyte.

Electrons flow through the circuit from the anode, and then enter back through the cathode and prompt another chemical reaction. These reactions continue until the materials are consumed, at which point no more electricity is produced by the battery. Both Lithium and Lithium-ion batteries produce portable electricity in this manner and can be used to power all sorts of different devices and electrical circuits. Batteries are incredibly useful components that allow us all sorts of luxuries, without them we would have to start cars by hand, and phones would still all be attached to the wall.

Lithium batteries are primary cell batteries, which means they cannot be recharged once empty. They use the metal lithium as an anode. Lithium batteries have a high charge density, meaning they last longer than other batteries and can hold more power. Depending on their design, lithium batteries can produce electricity with a voltage of between 1.5 and 3.7 V. The metal used in lithium batteries is very reactive, pure lithium will instantly react with water, and even moisture in the air.

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Lithium batteries are used in many electronic devices, from electric toy cars to full-sized vehicles. Although their high power capacity makes them very useful, the fact that they cannot be easily or even safely recharged meant that many companies began to look for other alternatives. The disposable batteries many of us have around our homes are not very good for the environment, which is why many people and companies decide to use Lithium-ion batteries like this beautiful 900W Lithium Polymer Battery instead.

Lithium-ion batteries are secondary cells, meaning that they can be recharged and reused. These batteries are incredibly popular today, and our everyday lives would be quite different without them. Your laptop, cell phone, tablet, and camera all depend on Lithium-ion batteries to keep them working, as these rechargeable batteries are highly effective. The electrodes of Lithium-ion batteries are made from lithium and carbon, making them much lighter in weight than other rechargeable batteries.

Lithium-ion batteries are also great at holding their charge, losing only around 5% of their power every month they aren"t used. Another benefit of Lithium-ion batteries is that they have no memory effect. Ever remember being told that you need to completely discharge your batteries before plugging them in to recharge? That doesn"t apply to Lithium-ion batteries. These excellent rechargeable batteries can handle being charged and emptied hundreds of times before deteriorating.

Lithium-ion batteries are quite complex in nature, unlike the simplicity of a plain old Lithium battery. Within a lithium-ion battery, you would find multiple lithium-ion cells which store and provide the power. However, Li-ion batteries have other components too. A small computer within the battery monitors and regulates the temperature, voltage, and the state of battery charge, all from within the unit. This tiny system is necessary to keep your battery functioning as it should and is also responsible for the 5% power loss per month these rechargeable batteries experience.

The biggest difference between Lithium batteries and Lithium-ion batteries is that Lithium batteries feature a single cell construction, meaning that they are single-use and cannot be recharged once empty. On the other hand, Lithium-ion batteries can be used time after time, they are rechargeable and can be charged and emptied hundreds of times.

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