

Different lithium batteries

Explore our advancements in lithium battery cell technology.

Learn about our premium battery pack products.

Discover our comprehensive power system solutions.

Explore ancillary components for high-performance power systems.

Discover how we meet the distinctive power needs of various sectors.

Take a look inside our Research & Development efforts.

Discover the capabilities of our lithium battery communication technology.

Explore our proprietary dry electrode battery manufacturing process.

Lithium batteries are more popular today than ever before. You'll find them in your cell phone, laptop computer, cordless power tools, and even electric vehicles. However, just because all of these electronics use lithium batteries doesn't mean they use the same type of lithium batteries. We'll take a closer look at the six main types of lithium batteries pros and cons, as well as the best applications for each.

Lithium batteries rely on lithium ions to store energy by creating an electrical potential difference between the negative and positive poles of the battery. An insulating layer called a "separator" divides the two sides of the battery and blocks the electrons while still allowing the lithium ions to pass through.

During the charging phase, lithium ions move from the positive side of the battery to the negative side through the separator. While you discharge the battery, the ions move in the reverse direction.

This movement of lithium ions causes the electrical potential difference mentioned before. This electrical potential difference is called "voltage." When you connect your electronics to a lithium battery, the electrons which are blocked by the separator are forced to pass through your device and power it.

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