

Difference between lithium ion and lithium phosphate battery

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Lithium phosphate batteries are ideal for applications requiring stability and longevity, while lithium-ion batteries are suitable for devices needing compact, lightweight power sources¹²³.

After years of research and refinement, science and mechanics have deemed lithium batteries (meaning batteries containing a lithium anode) as those with perhaps the highest charge density, meaning they can output a lot of power. For that reason, lithium batteries are often found in cars and other vehicles, as well as in homes and generators. There are, however, two different types of lithium batteries, two of which have risen to the forefront. We will discuss both briefly.

Lithium-ion technology is slightly older than lithium phosphate technology and is not quite as chemically or thermally stable. This makes these batteries far more combustible and susceptible to damage. Lithium-ion batteries have about an 80 percent discharge efficiency (on average) and are a suitable option in most instances.

Phosphate chemistry offers a longer lifecycle due to its stability under the conditions of overcharge or short circuits. Again, phosphate chemistry is also newer and some find it to be more reliable overall. Although phosphate batteries have a slightly lower charge density, phosphate batteries are becoming a favorite for home power storage.

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