

Lithium batteries





Overview

A lithium-ion battery, or Li-ion battery, is a type of rechargeable battery that uses the reversible intercalation of Li ions into electronically conducting solids to store energy. Li-ion batteries are characterized by higher specific energy, energy density, and energy efficiency and a longer cycle life and calendar life than other types of rechargeable batteries. Also noteworthy is a dramatic impr. Specific energy 1–270 W·h/kg (3.6–972.0 kJ/kg) Energy density 250–693 W·h/L (900–2,490 J/cm³) Specific power 1–10,000 W/kg Charge/discharge efficiency 80–90% History Research on rechargeable Li-ion batteries dates to the 1960s; one of the earliest examples is a CuF₂/Li battery developed by in 1965. The breakthrough that produced the earliest form of the modern Li-ion battery.

Generally, the negative electrode of a conventional lithium-ion cell is made from . The positive electrode is typically a metal or phosphate. The is a in an . The negative el.

Lithium-ion batteries may have multiple levels of structure. Small batteries consist of a single battery cell. Larger batteries connect cells into a module and connect modules and parallel into a pack. Multi.



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