

## Lithium ion batteries definition

Lithium-ion battery (LIB) is one of rechargeable battery types in which lithium ions move from the negative electrode (anode) to the positive electrode (cathode) during discharge, and back when charging. It is the most popular choice for consumer electronics applications mainly due to high-energy density, longer cycle and shelf life, and no memory effect. With Li-ion batteries currently gaining much attraction in electric drive vehicle, the concern for global warming and a clean environment may be well served with advances in such systems.

During the last 15 years, lithium-ion batteries have dominated the advanced energy sources by powering the modern portable electronics and replaced many other commercial battery systems in the market. The prime reasons for its rapid success and proliferation in consumer electronic market are its superior characteristics over other battery systems, namely, high voltage, high-energy...

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Basic lithium ion unit providing a source of electrical energy by direct conversion of chemical energy that consists of electrodes, separator, electrolyte, container, and terminals, and that is designed to be charged electrically.

The cell condition where the internal cell reactions generate more thermal heat than the cell can dissipate. The condition causes cell venting and premature failure.

## Policies and ethics

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