



# Best lithium batteries australia

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Most Popular AA Batteries

Lithium is a superior metal in battery chemistry because:

However, the reactivity of lithium is a double-edged sword because it means less stability and higher risk of the battery catching fire.

Enter lithium iron phosphate (LiFePO<sub>4</sub>) batteries--all the advantages of lithium chemistry minus the risks.

Let's get into more detail about the LiFePO<sub>4</sub>--the best lithium battery.

Lithium iron phosphate (LiFePO<sub>4</sub>) batteries are secondary, rechargeable batteries. They use lithium iron phosphate at the cathode and graphitic carbon combined with lithium at the anode to increase conductivity.

Lithium moves between the electrodes during the discharge and recharge cycles while the lithium salt-based electrolyte remains unchanged.

The cells can be connected in series for large voltage applications. For instance, you can find 12 V LiFePO<sub>4</sub> batteries with four cells or 25.6 V batteries with eight cells.

LiFePO<sub>4</sub> batteries are the safest lithium chemistry cells because the chemical composition is thermally stable with a strong olivine crystal structure.

The stability of the cells means that the battery:

Because of the absence of thermal runaway, the batteries perform well under harsh conditions. Even if the LiFePO<sub>4</sub> battery is exposed to extreme temperatures, short-circuits, is punctured, or the vehicle crashes, there's no risk of fire or explosion.

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