

Power tool solar container lithium battery lithium iron phosphate battery





Overview

What is a LiFePO4 battery?

The LiFePO4 battery, which stands for lithium iron phosphate battery, is a high-power lithium-ion rechargeable battery intended for energy storage, electric vehicles (EVs), power tools, yachts, and solar systems.

What is a lithium iron phosphate cathode?

The lithium iron phosphate cathode material enables the seamless use of large-capacity lithium batteries in series. The LiFePO4 battery operates within a voltage range of 2.8V to 3.65V, with a nominal voltage of 3.2V, and functions effectively across a wide temperature range (-20°C to +75°C).

How many cycles can a lithium phosphate LiFePO4 battery run?

A Lithium Phosphate LiFePO4 Battery charged at 1C can typically achieve around 2000 cycles. It offers notable safety features, such as resistance to puncture-induced explosions and a reduced risk of burning when overcharged. The lithium iron phosphate cathode material enables the seamless use of large-capacity lithium batteries in series.



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