

Cost of lithium batteries for solar

Lithium-ion battery costs for different applications

In 2024, the cost of lithium batteries like LiFePO₄ is going down while their durability is increasing. Now is the perfect time to replace your lead-acid battery and upgrade your solar generator or solar system.

Lithium batteries are the most versatile electricity storage available. They are:

Let's take a closer look at the two main components:

A lithium battery cannot work without a BMS. This essential electronic component has 3 functions:

The BMS is connected to each prismatic lithium battery cell. It ensures they're all balanced and equally charged/discharged by controlling the charging and discharging current.

Additionally, It protects the battery from over-discharging and overcharging and ultimately prevents it from overheating by disconnecting the battery cells if needed.

Prismatic lithium battery cells are the basic building blocks of all lithium batteries. They have a standard voltage of 3.2V, and their capacity varies 50Ah, 100Ah, 200Ah, etc.

The quality of their material and manufacturing process affects their durability (number of cycles), robustness, and fast charge/discharge abilities.

Four prismatic lithium cells are connected in series resulting in a 12V lithium battery pack ($4 \times 3.2V = 12.8V$).

Currently, LiFePO₄ prismatic cells constitute 80% of the total lithium battery cost.

Use the following four steps to help you choose your lithium battery:

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