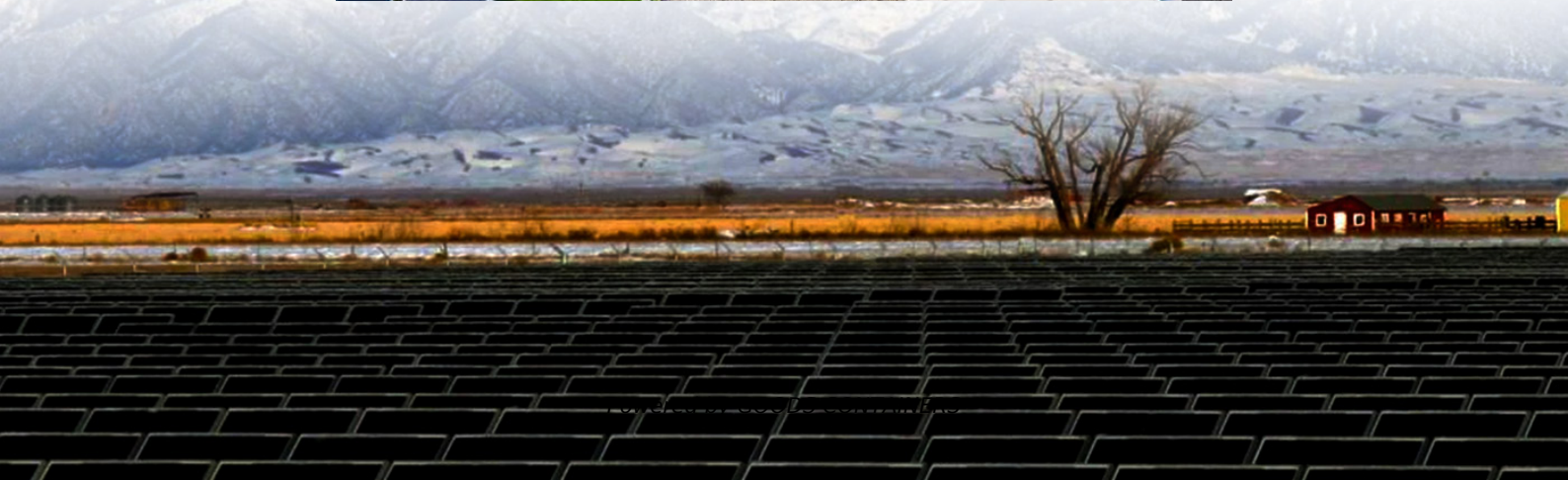


Backup lithium iron phosphate power supply for iron box base station





Overview

What is lithium hexafluorophosphate in a LiFePO₄ battery pack?

The electrolyte in a LiFePO₄ battery pack serves as the medium for the transport of lithium ions between the anode and the cathode. It is typically composed of a lithium - containing salt dissolved in an organic solvent. Lithium hexafluorophosphate (LiPF₆) is a commonly used salt in the electrolyte.

What is a LiFePO₄ battery pack?

They can operate over a wide temperature range, from relatively cold temperatures to high - temperature environments. In cold conditions, LiFePO₄ battery packs generally maintain a better capacity retention compared to some other lithium - ion battery chemistries.

Why is LiFePO₄ a good battery?

The long cycle life is attributed to the stability of the LiFePO₄ crystal structure. The reversible lithium - ion insertion and extraction processes cause minimal structural changes in the cathode material, which helps to maintain the battery's performance over a large number of cycles.

What is the energy density of a LiFePO₄ battery?

Modern LiFePO₄ battery packs can achieve a gravimetric energy density of up to 180 - 200 Wh/kg, which is sufficient for many applications where weight is a crucial factor, such as in electric vehicles. In terms of volumetric energy density, values can reach up to 500 - 600 Wh/L.



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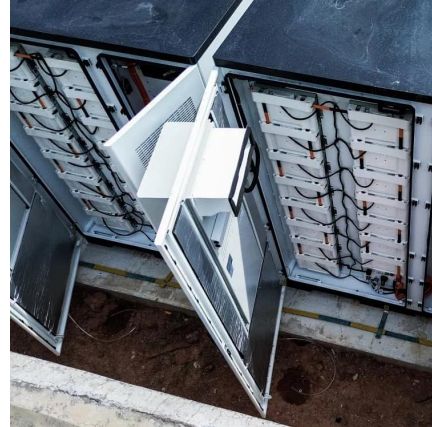


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