

# LFP 9-30kWh Lithium Battery

What is LFP battery cathode?

The new project is designed to "reduce import reliance" while securing Hyundai a stable supply chain as the industry shifts to electric. Although most LFP battery cathode materials are made by adding lithium to precursor materials such as phosphate and iron sulfate, Hyundai and Kia are developing a more advanced process.

What is the difference between a lithium ion battery and a LFP battery?

The LFP battery uses a lithium-ion-derived chemistry and shares many advantages and disadvantages with other lithium-ion battery chemistries. However, there are significant differences. Iron and phosphates are very common in the Earth's crust. LFP contains neither nickel nor cobalt, both of which are supply-constrained and expensive.

How are LFP battery cathode materials made?

Although most LFP battery cathode materials are made by adding lithium to precursor materials such as phosphate and iron sulfate, Hyundai and Kia are developing a more advanced process. Using a direct synthesis process, adding iron powder and lithium simultaneously skips the need to create a separate precursor.

What is the specific energy of a LFP battery?

The specific energy of LFP batteries is lower than that of other common lithium-ion battery types such as nickel manganese cobalt (NMC) and nickel cobalt aluminum (NCA). As of 2024, the specific energy of CATL's LFP battery is currently 205 Watt-hours per kilogram (Wh/kg) on the cell level.

How many kWh can a lithium LFP battery run?

Lithion's Stack'd Series LFP batteries are modular and can be scaled in 4.8 kWh increments, from 9.6 kWh to 38.4 kWh.

What are LFP batteries used for?

4) as the cathode material, and a graphitic carbon electrode with a metallic backing as the anode. Because of their low cost, high safety, low toxicity, long cycle life and other factors, LFP batteries are finding a number of roles in vehicle use, utility-scale stationary applications, and backup power. LFP batteries are cobalt-free.

LFP 9-30kWh Lithium Battery Wuxi Sunket New Energy Technology Co., Ltd. ?????: ?? EUR195 / kWh ?? EUR1,680 / ?????? ???? ??????? ??????: LFP (LiFePO4) ????? ??????: 50 Ah ...

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