


Laos lithium-iron-phosphate batteries lfp

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At the beginning of the 21st century, the market for EVs is increasing year by year due to the imperative to meet global targets of reducing GHG emissions in order to combat global warming, improve air quality in urban areas, and respond to consumers [5,6]. LIBs have been developed as energy storage for the transport sector and renewable energy systems. Basically, a LIB consists of two cell electrodes, an anode and a cathode, and the main source of active Li-ions in a battery is the positive electrode (cathode). Based on the cathode materials, LIBs can be classified into different types, such as:

Lithium Cobalt Oxide ( $\text{LiCoO}_2$ )-LCO;

Lithium Manganese Oxide ( $\text{LiMn}_2\text{O}_4$ )-LMO;

Lithium Nickel Oxide ( $\text{LiNiO}_2$ )-LNO;

Lithium Nickel Manganese Cobalt Oxide ( $\text{LiNiMnCoO}_2$ )-NMC;

Lithium Nickel Cobalt Aluminum Oxide ( $\text{LiNiCoAlO}_2$ )-NCA;

Lithium-ion Phosphate ( $\text{LiFePO}_4$ )-LFP;

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