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Lithium Iron Battery Lithium Battery



The interior of a Lithium-ion Battery is mainly composed of a positive electrode, a negative electrode, an electrolyte and a separator. Different positive, negative electrode and electrolyte materials and differences in technology make batteries have different properties and have different names. At present, the cathode materials for lithium-ion batteries on the market are mainly cobalt lithium oxide (LiCoO_2), and there are also a few lithium-ion batteries that use lithium manganese oxide (LiMn_2O_4) and lithium nickel oxide (LiNiO_2) as cathode materials. Lithium-ion batteries with the latter two cathode materials are generally referred to as "lithium-manganese batteries" and "lithium-nickel batteries".

The newly developed lithium iron phosphate power battery is a lithium-ion battery with lithium iron phosphate (LiFePO_4) material as the positive electrode of the battery, which is a new member of the lithium-ion battery family. LiFePO_4 is a positive electrode material for lithium-ion batteries. LiFePO_4 exists in the form of ferrophosphate lithium ore in nature, and its structure is stable, rich in resources, good in safety performance and non-toxic.

Compared with traditional lithium-ion battery positive electrode materials LiMn_2O_4 and LiCoO_2 , LiFePO_4 has a wider range of raw materials, lower prices and no environmental pollution. It is environmentally friendly and has good thermal stability. It is one of the most competitive materials for the cathode of next-generation lithium-ion batteries.