

# Cobalt free lfp battery tesla



## Overview

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Tesla's LFP batteries, used in Model 3 and Model Y base variants, replace cobalt with iron and phosphate. Automakers like Tesla are transitioning to cobalt-free batteries to address ethical concerns tied to cobalt mining (e., child labor) and reduce environmental harm. These batteries, such as lithium iron phosphate (LFP) variants, lower costs, improve supply chain stability, and maintain performance. Tesla is preparing to introduce an updated nickel-based battery cell that allows owners to raise their daily charging limit without sacrificing longevity. The newly published patent, WO2024/229047 A1, reveals that Tesla, along with a team including. An LFP battery is a type of lithium-ion battery that uses lithium iron phosphate ( $\text{LiFePO}_4$ ) as the cathode material, offering significant advantages for electric vehicles and energy storage systems. They are highly safe, with excellent thermal stability and long cycle life.

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### Tesla Looks to Improve LFP Battery Performance and Bring ...

LFP batteries are already a part of Tesla's strategy for its Standard Range vehicles and energy storage products. They are prized for their lower cost (by avoiding expensive nickel and ...

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## Why Are Automakers Like Tesla Switching to Cobalt-Free Batteries?

Automakers like Tesla are transitioning to cobalt-free batteries to address ethical concerns tied to cobalt mining (e.g., child labor) and reduce environmental harm. These batteries, such as lithium iron ...



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## Elon Musk's Tesla Model 3 cobalt-free strategy is ushering in an LFP

About a year ago, Tesla effectively shocked the electric vehicle industry by announcing that the Made-in-China Model 3 Standard Range Plus would be using lithium iron phosphate (LFP)

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## LFP Batteries: Why Top EV Makers Choose Cheaper Tech

LFP batteries use lithium iron phosphate ( $\text{LiFePO}_4$ ) as the cathode material. They are highly safe, with excellent thermal stability and long cycle life. Unlike other lithium-ion batteries, they ...

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## Tesla Kicks Off Future of LFP Batteries in EVs

Tesla's recent announcement that it will build a "light" shorter-range version of its upcoming Semi heavy-duty truck using lithium iron phosphate (LFP) batteries instead of lithium ...

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## Cracking the Code: How Tesla's Dry Electrode 4680 Cells Are ...

Cost Parity with LFP: For years, LFP was the low-cost king. However, with the dry electrode process reducing manufacturing costs by 15-20%, Tesla's high-nickel 4680 cells are now ...



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## Lfp battery: 7 Powerful Reasons Tesla Owners Win in 2025

By eliminating cobalt and nickel from the



supply chain, LFP battery technology addresses critical sustainability concerns that align perfectly with Tesla's mission to accelerate the ...

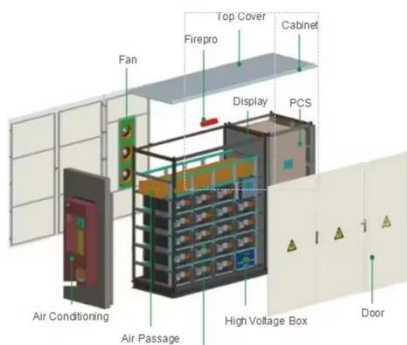
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## Tesla Narrows Gap Between Nickel and LFP Batteries With New Cell ...

For years, Tesla has deployed two main types of batteries across its global lineup: nickel-based chemistries such as nickel-cobalt-aluminum (NCA) and nickel-manganese-cobalt (NMC), and ...



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## Which Teslas have LFP batteries?

Tesla's nickel-cobalt based battery cells have been powering the S, 3, X, and Y models since their inception, but the move in 2020 towards LFP batteries was part necessity and part ...

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## Tesla's Cobalt-Free Battery: A Game Changer for EVs?

Tesla has been working on cobalt-free

battery alternatives for years. One promising option is the lithium iron phosphate (LFP) battery, already used in some Tesla models.

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