

North America LFP Battery Pack - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2024 - 2029)

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Abstracts

The North America LFP Battery Pack Market size is estimated at 0.56 billion USD in 2024, and is expected to reach 2.06 billion USD by 2029, growing at a CAGR of 29.50% during the forecast period (2024-2029).

Government support and technological advancements drive LFP battery adoption in the BEV segments

In 2023, the adoption and sales of lithium iron phosphate (LFP) battery packs for electric vehicles (EVs) steadily increased in North America. LFP batteries are becoming increasingly popular due to their high energy density, long cycle life, and low cost compared to other battery chemistries. However, the typical range for an EV with an LFP battery pack is around 320-480 km per charge.

The adoption and penetration of LFP battery packs in North America are expected to continue to grow in the coming years, driven by factors such as government regulations and incentives, consumer demand for EVs, and advancements in battery technology. Moreover, the ongoing efforts of automakers to improve the performance and reduce the cost of LFP battery packs will also contribute to their increased adoption in the EV market.

For example, the Canadian province of Quebec announced a new plan to invest USD 3,679.23 million (CAD 5 billion) in the production and recycling of EV batteries, including LFP batteries. Several OEMs, including Tesla and General Motors, are investing in the

development and production of EVs with LFP batteries in North America. Governments in the region have set targets for phasing out fossil fuel-powered vehicles and promoting the adoption of EVs, such as California's goal of having all new passenger cars and trucks sold in the state be zero-emission vehicles by 2035. Overall, the future of the North American LFP battery pack market for electric vehicles looks promising, with continued growth expected in the coming years due to increasing consumer demand, technological advancements, and government support.

Decreasing battery costs and evolving market conditions are leading to increased adoption of LFP batteries in the North American EV market

The market for LFP batteries in North America, specifically in the United States and Canada, is gradually evolving. Although LFP batteries were not as commonly used as other lithium-ion battery chemistries in the electric vehicle (EV) market, signs of increasing interest and adoption have emerged. LFP batteries have been adopted in niche EV applications where safety, long cycle life, and thermal stability are critical factors. These applications include electric buses, commercial fleet vehicles, and other specialized electric vehicles. The robustness of LFP batteries and their ability to deliver high power have made them attractive for these specific use cases.

Despite being less prevalent in the passenger EV market, LFP batteries have gained some attention and adoption in North America. LFP batteries have gained traction in specific market segments that prioritize durability and reliability over energy density. For instance, in the electric bus sector, where long cycle life and consistent performance are important, LFP batteries have been increasingly adopted due to their extended lifespan and robust characteristics.

While LFP batteries may have been less common in passenger EVs in the United States and Canada, their adoption could have increased over time. The evolving market conditions, advancements in battery technology, and changing consumer preferences can influence the choice of battery chemistries in the coming years. Moreover, the cost of LFP batteries has been decreasing, making them more competitive in the market. As a result, some EV manufacturers and battery suppliers have started incorporating LFP batteries into their product offerings to cater to specific customer needs and market segments.

North America LFP Battery Pack Market Trends

The major players in the North American electric vehicle market include Tesla, Toyota, Ford, Hyundai, and Honda

The North American electric vehicle market is majorly driven by the five major players, accounting for more than 70% of the market in 2023. These prominent players include Tesla, Toyota Group, Ford Group, Hyundai, and Honda. Tesla is the highest seller of electric vehicles in the various North American countries, accounting for around 33% of the market. The company focuses on strong innovation technologies and has strong strategic partnerships with various EV components (such as a battery) manufacturers. Being a US-based company, it has a strong customer base with great product and service offerings in major countries like the United States and Canada across North America.

Toyota Group is the second largest seller of electric vehicles, accounting for around 30.8% market share across North America. The company has a strong supply chain and distribution network. Toyota has a reliable brand image among its customers. It ranks third in EV sales across various countries in North America. Ford Group acquired it with around 9.9% of the market share. The company has a large customer base in North American countries due to its strong brand image and diverse offerings.

Hyundai is the fourth largest player, acquiring around 5.48% of the market share in EV sales across North America. The company has a strong production and supply chain network, with wide innovative and diverse products offered for various types of customers looking from reasonable to premium pricing. The fifth-largest player operating in the EV market is Honda, maintaining its market share at around 5.22%. Some of the other players selling EVS in North America include Jeep, Chevrolet, BMW, and Volvo.

The United States was the largest market with huge EV demand and captured more than 60% of the battery pack market across the region in 2023

In 2023, the demand for batteries surged as the number of electric vehicles steadily climbed across several North American countries. Many other brands and models are sold in the region, but the top five models in 2023, the Tesla Model Y, Tesla Model 3, Toyota Rav 4, Toyota Sienna, and Honda CRV, acquired a significant portion of the market. With 247,344 units sold in the United States in 2023, the Tesla Model Y

maintained its top spot. The Model Y is very well-liked because of its long range, strong seating capacity, and huge luggage capacity.

The Tesla Model 3 took second place with 215,500 sales in the United States in 2023. The rear-wheel drive and performance versions of the vehicle are available. Due to its strong performance characteristics, Model 3 is drawing customers. The Toyota Rav4 took third position in electric car sales, with sales of 149,938 in the United States and throughout North America. The vehicle has plug-in hybrid technology and several ADAS features, including Toyota Safety Sense.

The Toyota Sienna has acquired fourth place in the electric vehicle models' sales, with 69,720 in the United States. The car comes with the option of a 2.5 l engine with a hybrid powertrain. Consumers with big families looking for seven-seater cars have positively responded to the Toyota Sienna. The fifth place was acquired by the Honda CRV, selling 69,720 units in 2023 in the United States. Other top-selling models include Toyota Highlander, Jeep Wrangler, Toyota Camry, Honda Accord, and Ford Mustang Mach-E.

North America LFP Battery Pack Industry Overview

The North America LFP Battery Pack Market is fragmented, with the top five companies occupying 3.57%. The major players in this market are A123 Systems LLC, Clarios International Inc., Contemporary Amperex Technology Co. Ltd. (CATL), LG Energy Solution Ltd. and Primearth EV Energy Co. Ltd. (sorted alphabetically).

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