+357 96 030922
info@marketpublishers.com

Global Automotive Low Voltage Lithium Battery Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

https://marketpublishers.com/r/GB8557C8D048EN.html
Date: November 2025
Pages: 109
Price: US$ 3,480.00 (Single User License)
ID: GB8557C8D048EN

Abstracts

According to our (Global Info Research) latest study, the global Automotive Low Voltage Lithium Battery market size was valued at US$ 254 million in 2024 and is forecast to a readjusted size of USD 401 million by 2031 with a CAGR of 6.6% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

An automotive low voltage lithium battery is a lithium-ion-based battery designed to operate at voltages typically below 60 volts, commonly used in 12V, 24V, or 48V systems in vehicles. Unlike high-voltage batteries found in electric vehicle (EV) propulsion systems, these low-voltage lithium batteries are primarily used to replace traditional lead-acid batteries in functions such as engine start-stop systems, auxiliary power supply, lighting, infotainment, and advanced driver assistance systems (ADAS).

The automotive low-voltage lithium battery market—primarily encompassing 12V and 48V lithium-ion batteries used for functions like start-stop systems, infotainment, and electronic control units—is experiencing steady growth as automakers transition from traditional lead-acid batteries to more efficient, lightweight, and longer-lasting lithium-based alternatives. This expansion is driven by the rising adoption of electric and hybrid vehicles, the shift toward lithium iron phosphate (LFP) chemistries for cost and safety benefits, and the industry's push for enhanced energy efficiency and sustainability. Key players include Camel Group and BYD, with China leading in both production and technological advancements in this sector.?

+357 96 030922
info@marketpublishers.com

This report is a detailed and comprehensive analysis for global Automotive Low Voltage Lithium Battery market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Automotive Low Voltage Lithium Battery market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2020-2031

Global Automotive Low Voltage Lithium Battery market size and forecasts by region and country, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2020-2031

Global Automotive Low Voltage Lithium Battery market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2020-2031

Global Automotive Low Voltage Lithium Battery market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Automotive Low Voltage Lithium Battery

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Automotive Low Voltage Lithium Battery market based on the following parameters - company overview, sales quantity, revenue,

+357 96 030922
info@marketpublishers.com

price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include LG Chem, Samsung SDI, A123 Systems, NPP POWER, Camel Group, Zhuhai CosMX Battery, EVE Energy, CATL, BYD, Hangzhou Skyrich Power, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Automotive Low Voltage Lithium Battery market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

12V

24V

48V

Market segment by Application

HEV (Hybrid Electric Vehicles)

EV (Electric Vehicles)

Major players covered

LG Chem

Samsung SDI

A123 Systems

+357 96 030922
info@marketpublishers.com

NPP POWER

Camel Group

Zhuhai CosMX Battery

EVE Energy

CATL

BYD

Hangzhou Skyrich Power

WANXIANG Group

Anhui Leadwin New Energy Technology

Fengfan Co., Ltd.

Shenzhen Kamcy New Energy Products

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

+357 96 030922
info@marketpublishers.com

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Automotive Low Voltage Lithium Battery product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive Low Voltage Lithium Battery, with price, sales quantity, revenue, and global market share of Automotive Low Voltage Lithium Battery from 2020 to 2025.

Chapter 3, the Automotive Low Voltage Lithium Battery competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive Low Voltage Lithium Battery breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025.and Automotive Low Voltage Lithium Battery market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Automotive Low Voltage Lithium Battery.

Chapter 14 and 15, to describe Automotive Low Voltage Lithium Battery sales channel, distributors, customers, research findings and conclusion.

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

3 COMPETITIVE ENVIRONMENT: AUTOMOTIVE LOW VOLTAGE LITHIUM BATTERY BY MANUFACTURER

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Automotive Low Voltage Lithium Battery Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

Product link: https://marketpublishers.com/r/GB8557C8D048EN.html

Price: US$ 3,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/GB8557C8D048EN.html