

Global 24V Lithium Iron Phosphate Battery Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global 24V Lithium Iron Phosphate Battery market size was valued at US\$ 1566 million in 2024 and is forecast to a readjusted size of USD 2840 million by 2031 with a CAGR of 10.0% 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.

The 24V lithium iron phosphate battery is a lithium-ion battery with lithium iron phosphate (LiFePO₄) as the positive electrode material and a rated voltage of 24V. It has the advantages of high safety, long cycle life (2000-5000 times), high temperature resistance, and environmental protection and non-toxicity. Its operating voltage range is 21.6V-29.2V, which is suitable for high-power demand scenarios such as electric forklifts, solar energy storage, AGV robots, and industrial backup power supplies. Compared with lead-acid batteries, it has a higher energy density (120-160Wh/kg), a charge and discharge efficiency of over 95%, and supports fast charging, which greatly reduces the long-term use cost.

This report is a detailed and comprehensive analysis for global 24V Lithium Iron Phosphate 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 24V Lithium Iron Phosphate Battery market size and forecasts, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2020-2031

Global 24V Lithium Iron Phosphate Battery market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2020-2031

Global 24V Lithium Iron Phosphate Battery market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2020-2031

Global 24V Lithium Iron Phosphate Battery market shares of main players, shipments in revenue (\$ Million), sales quantity (MW), and ASP (US\$/KW), 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 24V Lithium Iron Phosphate 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 24V Lithium Iron Phosphate Battery market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Redway Tech, Shenzhen Cyclen Technology CO.,LTD, CATL, Pretapower, BYD Energy Storage, SUNBOND, KEHENG, Shenzhen Mottcell New Energy Technology Co.,Ltd., GSL Energy, Flykol, etc.

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

Market Segmentation

24V Lithium Iron Phosphate 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

Capacity: 10-30Ah

Capacity: 50-100Ah

Capacity: 100-300Ah

Capacity: 300Ah+

Market segment by Application

Energy Storage System

Power System

Others

Major players covered

Redway Tech

Shenzhen Cyclen Technology CO.,LTD

CATL

Pretapower

BYD Energy Storage

SUNBOND

KEHENG

Shenzhen Mottcell New Energy Technology Co.,Ltd.

GSL Energy

Flykol

TYCORUN

SmartPropel

Keshee

Lyrasom

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)

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

Chapter 1, to describe 24V Lithium Iron Phosphate Battery product scope, market

Global 24V Lithium Iron Phosphate Battery Market 2025 by Manufacturers, Regions, Type and Application, Forecas...

overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 24V Lithium Iron Phosphate Battery, with price, sales quantity, revenue, and global market share of 24V Lithium Iron Phosphate Battery from 2020 to 2025.

Chapter 3, the 24V Lithium Iron Phosphate Battery competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 24V Lithium Iron Phosphate 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 24V Lithium Iron Phosphate 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 24V Lithium Iron Phosphate Battery.

Chapter 14 and 15, to describe 24V Lithium Iron Phosphate Battery sales channel, distributors, customers, research findings and conclusion.

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