

Global 48V 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 48V Lithium Iron Phosphate Battery market size was valued at US\$ 1951 million in 2024 and is forecast to a readjusted size of USD 3987 million by 2031 with a CAGR of 12.3% 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 48V lithium iron phosphate battery is a lithium-ion battery with lithium iron phosphate (LiFePO₄) as the positive electrode material and a rated voltage of 48V. It is realized by a combination of 15 series (15S) or 16 series (16S) of batteries. It has the advantages of high safety (high temperature resistance, non-flammable), long cycle life (3000-6000 times), high energy density (140-180Wh/kg), etc., supports 2C-3C fast charging, and has a wide operating temperature range (-20~60). It is widely used in light electric vehicles, hybrid electric vehicles (HEV), home energy storage, communication base stations and data center backup power supplies, and gradually replaces traditional lead-acid batteries.

This report is a detailed and comprehensive analysis for global 48V 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 48V Lithium Iron Phosphate Battery market size and forecasts, in consumption value (\$ Million), sales quantity (MW), and average selling prices (US\$/KW), 2020-2031

Global 48V 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 48V 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 48V 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 48V 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 48V 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 CATL, BYD Energy Storage, Enerlution, CHISAGE, Coremax, RELiON BATTERY, Redway Tech, Shenzhen YaBo Power Technology Co., Ltd., TYCORUN, LiTime, etc.

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

Market Segmentation

48V 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

Battery Capacity: 48V 20Ah, 30Ah

Battery Capacity: 48V 50Ah, 52Ah

Battery Capacity: 48V 100Ah, 150Ah

Others

Market segment by Application

Home Energy Storage

Communication Base Stations

Hybrid Vehicles

Others

Major players covered

CATL

BYD Energy Storage

Enerlution

CHISAGE

Coremax

RELiON BATTERY

Redway Tech

Shenzhen YaBo Power Technology Co., Ltd.

TYCORUN

LiTime

Large Power

DONGJIN POWER

NPP Lithium

Shenzhen Mottcell New Energy Technology Co.,Ltd.

ROSEN SOLAR

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 48V Lithium Iron Phosphate Battery product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 48V Lithium Iron Phosphate Battery, with price, sales quantity, revenue, and global market share of 48V Lithium Iron Phosphate Battery from 2020 to 2025.

Chapter 3, the 48V 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 48V 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 48V 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 48V Lithium Iron Phosphate Battery.

Chapter 14 and 15, to describe 48V Lithium Iron Phosphate Battery sales channel, distributors, customers, research findings and conclusion.

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