

Global Lithium Battery Soft Board Protection Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Lithium Battery Soft Board Protection market size was valued at US\$ 2168 million in 2025 and is forecast to a readjusted size of US\$ 2920 million by 2032 with a CAGR of 4.4% during review period.

Lithium-ion battery flexible printed circuit board (FPCB) protection refers to the protective measures applied to the flexible printed circuit board (FPCB) connecting the battery cell and the protection circuit on the lithium-ion battery cell. This protection typically uses specific insulating tapes, polymer films (such as PI film or PET film), or epoxy resin coatings to isolate and insulate sensitive circuits on the FPCB, preventing short circuits between them and the battery casing or the battery cell body. Its core function is to provide mechanical strength to resist stress during battery assembly, prevent circuit failure due to vibration or bending during long-term use, and assist in heat dissipation and prevent thermal runaway. It is a key link in ensuring the safety and reliability of lithium battery packs. 2024 sales volume: 290 million units, average price: \$7, single-line capacity: 25 million units, gross margin: 28%.

The lithium-ion battery flexible printed circuit board (FPCB) protection market is a direct beneficiary of the growth in the consumer electronics and new energy vehicle industries, with enormous market potential. As smartphones, wearable devices, and electric vehicles increasingly demand longer driving ranges and thinner designs, battery energy density continues to rise, requiring FPCBs to be designed to be thinner, more complex, and closer to the battery cell. This increases the risk of short circuits and thermal runaway. Therefore, the market has an urgent need for ultra-thin, high-temperature resistant, and high-insulation-strength protective materials. Stringent international safety

standards (such as UL and IEC) and requirements for battery assembly reliability make high-quality FPCB protection a mandatory cost for battery manufacturers, ensuring stable and high-value-added growth in this market.

Current market competition has shifted from providing basic insulation to active thermal management and the suppression of thermal runaway. The market generally believes that future value growth lies in the development of novel composite materials that can act as thermal barriers. This includes introducing high-performance polyimide (PI) films, ceramic coatings, or specific flame-retardant composite materials to effectively isolate and delay the spread of heat to surrounding circuits and adjacent cells in the event of localized thermal runaway within the battery cell. Successful suppliers need interdisciplinary R&D capabilities to provide a systematic and customized protection solution that integrates insulation, mechanical protection, and thermal runaway mitigation.

This report is a detailed and comprehensive analysis for global Lithium Battery Soft Board Protection 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 Lithium Battery Soft Board Protection market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Lithium Battery Soft Board Protection market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Lithium Battery Soft Board Protection market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Lithium Battery Soft Board Protection market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

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 Lithium Battery Soft Board Protection

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 Lithium Battery Soft Board Protection 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 Shenzhen Hengchuangxing Electronic Technology, Generic, Litongwei Electronics Technology, Shenzhen Chaosiwei Electronics, RYDBATT, Shenzhen Daren Hi-Tech Electronics, Shaheny, Shenzhen Jinhong Electronics, Shenzhen Handexing Technology Co., Ltd., Shenzhen GREEN DIGITAL POWER-TECH Co., Limited, etc.

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

Market Segmentation

Lithium Battery Soft Board Protection market is split by Type and by Application. For the period 2021-2032, 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

Ternary Lithium

Lithium Iron Phosphate

Lithium Titanate

Market segment by Function

- Overcharge Protection
- Over-discharge Protection
- Overcurrent Protection
- Short-circuit Protection
- Temperature Protection

Market segment by Structure

- Single-cell Protection Board
- Multi-cell Protection Board
- BMS Integrated PCB

Market segment by Application

- Electric Vehicles
- Consumer Electronics
- Energy Storage Systems
- Medical Equipment
- Others

Major players covered

Shenzhen Hengchuangxing Electronic Technology

Generic

Litongwei Electronics Technology

Shenzhen Chaosiwei Electronics

RYDBATT

Shenzhen Daren Hi-Tech Electronics

Shaheny

Shenzhen Jinhong Electronics

Shenzhen Handexing Technology Co., Ltd.

Shenzhen GREEN DIGITAL POWER-TECH Co., Limited

Shenzhen Li-ion Battery Bodyguard Technology Co., Limited

Guangdong Baiwei Electronic Technology Co., Ltd.

MinebeaMitsumi Inc.

Dali

Duolixin Electronic

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 Lithium Battery Soft Board Protection product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Lithium Battery Soft Board Protection, with price, sales quantity, revenue, and global market share of Lithium Battery Soft Board Protection from 2021 to 2026.

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

Chapter 4, the Lithium Battery Soft Board Protection breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Lithium Battery Soft Board Protection market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Lithium Battery Soft Board Protection.

Chapter 14 and 15, to describe Lithium Battery Soft Board Protection sales channel, distributors, customers, research findings and conclusion.

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