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# Global Two-cell Lithium-ion Battery Protection IC 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 Two-cell Lithium-ion Battery Protection IC market size was valued at US$ 1466 million in 2024 and is forecast to a readjusted size of USD 2132 million by 2031 with a CAGR of 5.5% 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.

A two-cell lithium-ion battery protection IC (Integrated Circuit) is an essential component designed to monitor and safeguard a two-cell lithium-ion battery pack, ensuring its safe operation by regulating key parameters such as voltage, current, and temperature. This IC is responsible for preventing overcharging, overdischarging, and excessive current flow, which could otherwise damage the battery or create safety hazards. It works by continuously monitoring the voltage of each individual cell within the battery pack and taking corrective actions, such as disconnecting the battery from the load or charging circuit, if the voltage falls outside safe limits. Additionally, the protection IC typically includes thermal monitoring to prevent overheating, as well as short-circuit protection to safeguard against electrical faults. By incorporating a two-cell protection IC, devices like portable electronics, power tools, and electric vehicles can maintain optimal battery performance, extend lifespan, and ensure the safety of both the battery and the user.

This report is a detailed and comprehensive analysis for global Two-cell Lithium-ion Battery Protection IC market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is

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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 Two-cell Lithium-ion Battery Protection IC market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2020-2031

Global Two-cell Lithium-ion Battery Protection IC 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 Two-cell Lithium-ion Battery Protection IC 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 Two-cell Lithium-ion Battery Protection IC 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 Two-cell Lithium-ion Battery Protection IC
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 Two-cell Lithium-ion Battery Protection IC 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 MinebeaMitsumi, Nisshinbo Micro Devices, Texas Instruments, Vishay, Ricoh, Hitachi, SII Semiconductor, Developer Microelectronics, Wuxi PWChip Semi Technology, Renesas Electronic, etc. This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

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## Market Segmentation

Two-cell Lithium-ion Battery Protection IC 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

Basic Protection IC

Intelligent Protection IC

Market segment by Application

Consumer Electronics

Medical Devices

Industrial Equipment

IoT

Others

Major players covered

MinebeaMitsumi

Nisshinbo Micro Devices

Texas Instruments

Vishay

Ricoh

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Hitachi

SII Semiconductor

Developer Microelectronics

Wuxi PWChip Semi Technology

Renesas Electronic

Analog Devices

H&M Semiconductor

Monolithic Power Systems

Fine Made Micro

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 Two-cell Lithium-ion Battery Protection IC product scope, market overview, market estimation caveats and base year.
Chapter 2, to profile the top manufacturers of Two-cell Lithium-ion Battery Protection IC, with price, sales quantity, revenue, and global market share of Two-cell Lithium-ion Battery Protection IC from 2020 to 2025.
Chapter 3, the Two-cell Lithium-ion Battery Protection IC competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.
Chapter 4, the Two-cell Lithium-ion Battery Protection IC breakdown data are shown at

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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 Two-cell Lithium-ion Battery Protection IC 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 Two-cell Lithium-ion Battery Protection IC.
Chapter 14 and 15, to describe Two-cell Lithium-ion Battery Protection IC sales channel, distributors, customers, research findings and conclusion.

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Figure 86. Research Process and Data Source

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