

Global Automotive Pyrotechnic Battery Disconnect (PBD) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automotive Pyrotechnic Battery Disconnect (PBD) market size is expected to reach \$ 2448 million by 2032, rising at a market growth of 13.3% CAGR during the forecast period (2026-2032).

Automotive Pyrotechnic Battery Disconnect (PBD) is a vehicle battery safety disconnect device used in high-voltage power systems, designed to rapidly separate the conductive path through a pyrotechnic actuator during collision, short circuit, thermal event, or severe electrical fault, thereby isolating the battery pack and reducing secondary electrical safety risks. Compared with conventional mechanical disconnectors or fuse-based protection devices, its advantages lie in millisecond-level response, reliable one-time interruption, strong high-voltage fault isolation capability, compact structure, high integration with vehicle safety systems, and better suitability for electric vehicle battery platforms. In 2025, production was approximately 45 million units and the average price was USD 22 per unit. The industry's capacity utilization rate in 2025 was about 73% and the average gross margin was around 43%. Upstream, the key inputs include melt materials, busbar systems, and electronic control units, with representative suppliers such as Mersen, Rogers Corporation, and Bosch providing melt protection materials, conductive busbar systems, and control electronics. The midstream segment focuses on pyrotechnic actuator design, high-voltage conductive path separation, fuse element matching, sealing and insulation design, ignition reliability control, crash-signal response validation, high-voltage safety testing, thermal and vibration reliability verification, and automated assembly, which together determine breaking speed, battery isolation reliability, high-voltage endurance, safety consistency, and cost competitiveness. Downstream, Pyrotechnic Battery Disconnect (PBD) is mainly used in battery electric vehicles and hybrid electric vehicles, with representative customer companies including Tesla, BYD, and Toyota.

The Automotive Pyrotechnic Battery Disconnect (PBD) works as an active current circuit breaker. When the signal is detected from the vehicle, an ignition current is generated to operate the pyro switch, shutting down the circuit, preventing electrical flow and decrease the risk of fire. Pyro switch is controlled by software and precisely cuts off the circuit in a few milliseconds. Pyro switch can cut off current in the event of current faults (short circuit/electrical overload, etc.) or non-current faults (collision/overheating, etc.) to protect passengers and vehicles.

This report studies the global Automotive Pyrotechnic Battery Disconnect (PBD) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive Pyrotechnic Battery Disconnect (PBD) and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Automotive Pyrotechnic Battery Disconnect (PBD) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automotive Pyrotechnic Battery Disconnect (PBD) total production and demand, 2021-2032, (K Units)

Global Automotive Pyrotechnic Battery Disconnect (PBD) total production value, 2021-2032, (USD Million)

Global Automotive Pyrotechnic Battery Disconnect (PBD) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Automotive Pyrotechnic Battery Disconnect (PBD) consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Automotive Pyrotechnic Battery Disconnect (PBD) domestic production, consumption, key domestic manufacturers and share

Global Automotive Pyrotechnic Battery Disconnect (PBD) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Automotive Pyrotechnic Battery Disconnect (PBD) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Automotive Pyrotechnic Battery Disconnect (PBD) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Automotive Pyrotechnic Battery Disconnect

(PBD) market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Autoliv (Sweden), Daicel (Japan), Pacific Engineering Corporation (Japan), Littelfuse (USA), Mersen (France), Eaton (Ireland), Miba AG (Austria), MTA Group (Italy), Xi'an Sinofuse Electric (China), Joyson Electronic (China), etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Automotive Pyrotechnic Battery Disconnect (PBD) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Automotive Pyrotechnic Battery Disconnect (PBD) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Pyrotechnic Battery Disconnect (PBD) Market, Segmentation by Type:

High Voltage (Above 700V)

Mid Voltage (400V-700V)

Low Voltage (Below 400V)

Global Automotive Pyrotechnic Battery Disconnect (PBD) Market, Segmentation by Current:

Current?250A

250A

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