

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

<https://marketpublishers.com/r/G908D4B78C73EN.html>

Date: July 2026

Pages: 120

Price: US\$ 4,480.00 (Single User License)

ID: G908D4B78C73EN

Abstracts

The global Pyrotechnic Battery Disconnect (PBD) market size is expected to reach \$ 2834 million by 2032, rising at a market growth of 13.2% CAGR during the forecast period (2026-2032).

Pyrotechnic Battery Disconnect (PBD) is a safety disconnect device used in battery power systems, using a pyrotechnic actuator to rapidly separate the conductive path during collision, short circuit, thermal event, or severe electrical fault, thereby isolating the battery and reducing secondary safety risks. Compared with conventional mechanical disconnectors or fuse-based protection devices, its advantages lie in millisecond-level response, reliable one-time interruption, strong fault isolation capability, compact structure, high integration with vehicle safety systems, and better suitability for high-voltage battery platforms. In 2025, production was approximately 55 million units and the average price was USD 21 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, conductive path separation structure, trigger mechanism integration, sealing and insulation design, ignition reliability control, high-voltage safety testing, crash-signal response validation, thermal and vibration reliability verification, and automated assembly, which together determine breaking speed, isolation reliability, high-voltage endurance, safety consistency, and cost competitiveness. Downstream, Pyrotechnic Battery Disconnect is mainly used in automotive and industrial applications.

Pyrotechnic Battery Disconnect (PBD) helps ensure that drivers, passengers and first

responders are kept safe from harm or electrocution in the event of a battery fire, overcharge, battery damage through vehicle impact or short circuit event. Once triggered by the vehicle safety system ECU or battery management system, the PBD physically cuts the electric bus bar carrying the high voltage/current in under one millisecond, thus irreversibly severing power flow from the battery.

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

This report is a detailed and comprehensive analysis of the world market for 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 Pyrotechnic Battery Disconnect (PBD) that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global 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 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 Pyrotechnic Battery Disconnect (PBD) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

High Voltage (Above 700V)

Mid Voltage (400V-700V)

Low Voltage (Below 400V)

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

Current?250A

250A

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