

# Global Pyrotechnic Battery Disconnect (PBD) 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 Pyrotechnic Battery Disconnect (PBD) market size was valued at US\$ 1188 million in 2025 and is forecast to a readjusted size of US\$ 2834 million by 2032 with a CAGR of 13.2% during review period.

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 is a detailed and comprehensive analysis for global Pyrotechnic Battery Disconnect (PBD) 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 Pyrotechnic Battery Disconnect (PBD) market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Pyrotechnic Battery Disconnect (PBD) 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 Pyrotechnic Battery Disconnect (PBD) 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 Pyrotechnic Battery Disconnect (PBD) 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 Pyrotechnic Battery Disconnect (PBD)

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 Pyrotechnic Battery Disconnect (PBD) 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 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.

## Market Segmentation

Pyrotechnic Battery Disconnect (PBD) 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

High Voltage (Above 700V)

Mid Voltage (400V-700V)

Low Voltage (Below 400V)

### Market segment by Current

Current?250A

250A

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