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Global High-voltage EV Battery Disconnect Unit (BDU) 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 High-voltage EV Battery Disconnect Unit (BDU) market size was valued at US$ 365 million in 2024 and is forecast to a readjusted size of USD 1223 million by 2031 with a CAGR of 18.7% 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.

High voltage electric vehicle battery disconnect unit (BDU) is the core electrical safety module in high-voltage power battery systems, widely used in 800V and 1000V high-voltage platform electric vehicles. Its main function is to achieve electrical connection and disconnection between the battery pack and the vehicle's high-voltage system, ensuring electrical isolation and protection during vehicle start-up, charging, discharging, and fault occurrence.

This report is a detailed and comprehensive analysis for global High-voltage EV Battery Disconnect Unit (BDU) 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:

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Global High-voltage EV Battery Disconnect Unit (BDU) market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2020-2031

Global High-voltage EV Battery Disconnect Unit (BDU) 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 High-voltage EV Battery Disconnect Unit (BDU) 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 High-voltage EV Battery Disconnect Unit (BDU) 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 High-voltage EV Battery Disconnect Unit (BDU)

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 High-voltage EV Battery Disconnect Unit (BDU) 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 Panasonic, BYD, WuHan Jason Automotive Technology, Eaton, Lear Corporation, Chilye Green Technology, Aptiv, CATL, Ningbo Fengmei, Xiamen Hongfa Electroacoustic, etc.

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

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Market Segmentation

High-voltage EV Battery Disconnect Unit (BDU) 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

800V

1000V

Market segment by Application

BEV

PHEV

Major players covered

Panasonic

BYD

WuHan Jason Automotive Technology

Eaton

Lear Corporation

Chilye Green Technology

Aptiv

CATL

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Ningbo Fengmei

Xiamen Hongfa Electroacoustic

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 High-voltage EV Battery Disconnect Unit (BDU) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High-voltage EV Battery Disconnect Unit (BDU), with price, sales quantity, revenue, and global market share of High-voltage EV Battery Disconnect Unit (BDU) from 2020 to 2025.

Chapter 3, the High-voltage EV Battery Disconnect Unit (BDU) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the High-voltage EV Battery Disconnect Unit (BDU) breakdown data are shown at 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

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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 High-voltage EV Battery Disconnect Unit (BDU) 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 High-voltage EV Battery Disconnect Unit (BDU).

Chapter 14 and 15, to describe High-voltage EV Battery Disconnect Unit (BDU) sales channel, distributors, customers, research findings and conclusion.

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Contents

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3 COMPETITIVE ENVIRONMENT: HIGH-VOLTAGE EV BATTERY DISCONNECT UNIT (BDU) BY MANUFACTURER

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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