

Global VDA Battery Module Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/VDB36F258714EN.html>

Date: June 2025

Pages: 139

Price: US\$ 3,480.00 (Single User License)

ID: VDB36F258714EN

Abstracts

According to our (Global Info Research) latest study, the global VDA Battery Module market size was valued at US\$ 54490 million in 2023 and is forecast to a readjusted size of USD 50510 million by 2030 with a CAGR of -2.6% during review period.

VDA module refers to a series of standard battery modules formulated in accordance with Verband der Automobilindustrie (VDA). This standard is mainly aimed at the design of power batteries for electric vehicles. The purpose is to achieve the standardization of battery components, thereby improving compatibility between different manufacturers and promoting the flexibility and efficiency of the supply chain. The VDA standard specifies the installation method of battery modules, including fixing method, connection method, etc., to ensure the stability and safety of battery modules during vehicle driving. It is widely used in new energy vehicles such as electric vehicles and hybrid vehicles. In order to meet the needs of most automotive, the VDA battery module size specification has gradually transitioned from the initial standard VDA355 to VDA390. Finally, after 2021, the market demand for increased mileage, in order to accommodate wider batteries, the VDA590 large module has gradually emerged.

The current market challenges and limitations of VDA modules are as follows:

1. New technology replacement: VDA battery modules belong to the early power battery 1.0 era. As consumers' demand for long battery life increases, VDA battery modules can no longer meet the demand. With the iteration of new technologies such as CTP, their terminal application advantages are significantly greater than those of VDA battery modules, resulting in the gradual lag of VDA battery modules in performance and technology.
2. Defects of the VDA battery module itself: The VDA standard module first integrates the battery cells into modules, which are then combined into battery packs, and finally

the battery packs are placed under the vehicle chassis. With the further development of electric vehicles, consumers have higher requirements for the endurance of electric vehicles. Each battery cell of the VDA standard module has a separate module package, and the number of batteries is always small. The VDA battery module faces certain challenges in terms of endurance.

3. Cost issue: It is undeniable that the standardized design of VDA battery modules helps reduce production costs during the mass production of battery components. However, due to the problem of module structure, the complexity and weight of the entire battery pack are increased, the overall cost increases, and the vehicle's endurance cannot be guaranteed.

4. Standardized modules limit customization requirements: Although the standardized design of VDA battery modules brings many advantages, it also limits its flexibility on different models and platforms. For electric vehicles that require a high degree of customization, VDA battery modules may not be able to meet their needs.

5. Design flexibility: CTP technologies provide more flexibility for electric vehicle design by simplifying the structure and improving the degree of integration. However, VDA battery modules, due to their standardized design and module hierarchy, limit the design flexibility of electric vehicles in terms of battery layout and size to a certain extent.

6. Safety: The power battery of new energy vehicles is the energy source of the vehicle. Once the battery has safety problems, such as fire and explosion caused by thermal runaway, it will pose a serious threat to the lives of the drivers and passengers in the car. Battery safety is a prerequisite for the continuous improvement of the global penetration rate of new energy vehicles. CTP technology improves the safety and reliability of batteries by optimizing the structure and manufacturing process of battery packs. The frame and connectors of VDA battery modules may become loose or damaged during long-term use, resulting in unstable connections between battery cells, which in turn causes safety problems such as thermal runaway of the battery. And because there are many module levels, the heat conduction path between VDA battery cells is long, and heat is difficult to dissipate quickly. The frame and connectors are a major challenge for thermal management of VDA battery modules.

This report is a detailed and comprehensive analysis for global VDA Battery Module 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 2024, are provided.

Key Features:

Global VDA Battery Module market size and forecasts, in consumption value (\$ Million), sales quantity (KWh), and average selling prices (US\$/KWh), 2019-2030

Global VDA Battery Module market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (KWh), and average selling prices (US\$/KWh), 2019-2030

Global VDA Battery Module market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (KWh), and average selling prices (US\$/KWh), 2019-2030

Global VDA Battery Module market shares of main players, shipments in revenue (\$ Million), sales quantity (KWh), and ASP (US\$/KWh), 2019-2024

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 VDA Battery Module

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 VDA Battery Module 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 CATL, LGES, SK On, Gotion High-tech, CALB, Farasis Energy, Tianjin Lishen, JEVE, SVOLT, Wanxiang 123, etc.

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

Market Segmentation

VDA Battery Module market is split by Type and by Application. For the period 2019-2030, 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

- 355 Module
- 390 Module
- 590 Module

Market segment by Application

- Passenger Vehicle
- Commercial Vehicle

Major players covered

- CATL
- LGES
- SK On
- Gotion High-tech
- CALB
- Farasis Energy
- Tianjin Lishen
- JEVE
- SVOLT
- Wanxiang 123
- Battero Tech
- CORNEX
- ProLogium Technology
- KORE Power
- Sinochem Holdings
- Microvast
- Sunwoda
- TWS Technology

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 VDA Battery Module product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of VDA Battery Module, with price, sales quantity, revenue, and global market share of VDA Battery Module from 2019 to 2024.

Chapter 3, the VDA Battery Module competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the VDA Battery Module breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2019 to 2030.

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 2019 to 2030.

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 2019 to 2024. and VDA Battery Module market forecast, by regions, by Type, and by Application, with sales and revenue, from 2025 to 2030.

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 VDA Battery Module.

Chapter 14 and 15, to describe VDA Battery Module sales channel, distributors, customers, research findings and conclusion.

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