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Electric Vehicle (EV) Battery Housing Market by Cell Format Type (Pouch Cell, Cylindrical Cell, Prismatic Cell), Material (Steel, Aluminum, Glass Fiber Reinforced Plastic, Carbon Fiber Reinforced Plastic), Vehicle Type (Passenger Cars, Commercial Vehicles, Two Wheelers and Three Wheelers), and Region 2023-2028

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Abstracts

The global electric vehicle (EV) battery housing market size reached US$ 1.4 Billion in 2022. Looking forward, IMARC Group expects the market to reach US$ 8.41 Billion by 2028, exhibiting a growth rate (CAGR) of 34.35% during 2023-2028. The rising demand for electric vehicles (EVs), the implementation of favorable government policies, and the incorporation of lightweight materials represent some of the key factors driving the market.

Electric vehicle (EV) battery housing refers to a protective enclosure used for storing the battery pack in an EV. It is manufactured using several lightweight and highly durable materials, such as aluminum, steel, plastics, and various composites, such as glass and carbon fiber reinforced polymers. EV battery housing is widely used in electric cars, trucks, vans, buses, motorcycles, scooters, and three-wheelers. It offers excellent thermal conductivity, a high strength-to-weight ratio, better insulation properties, and resistance against collision, corrosion, and extreme temperatures. EV battery housing also ensures optimum protection of the battery pack, prevents damages from overheating, prolongs equipment service life, and reduces the risk of potential hazards, such as fire, explosion, and chemical leaks. It also aids in enhancing vehicle performance, extending range, improving the driving experience, and increasing energy efficiency.

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Electric Vehicle (EV) Battery Housing Market Trends:
The rising adoption of EVs due to growing environmental concerns and increasing pollution levels is one of the key factors driving the market growth. EV battery housing is widely used in electric two-wheelers, three-wheelers, passenger cars, and commercial vehicles to ensure safe and reliable battery operation, minimize accidental damages, and prevent hazardous incidences. Furthermore, the implementation of favorable policies by several governments to promote the adoption of EVs to reduce dependency on fossil fuel, minimize carbon footprint, and curb air pollution is providing an impetus to the market growth. Apart from this, the growing product demand due to the easy accessibility of battery packs and the steady decline in battery costs is favoring the market growth. Additionally, the incorporation of lightweight materials, such as carbon fiber, magnesium, and aluminum, which aid in reducing vehicle weight, improving efficiency, and extending range, is positively influencing the market growth. Besides this, the recent development of multi-material EV battery housing, which offers better thermal management, improved safety, and high-impact resistance, is acting as another growth-inducing factor. Moreover, the rapid expansion of charging infrastructures, which allow users to charge their EVs on the go and conveniently swap batteries at the charging stations, is supporting the market growth. Other factors, including increasing investments in battery manufacturing, extensive research and development (R&D) activities, the rising focus on vehicle safety, and the growing consumer awareness regarding the benefits of EVs, are anticipated to drive the market growth.

Key Market Segmentation:
IMARC Group provides an analysis of the key trends in each segment of the global electric vehicle (EV) battery housing market, along with forecasts at the global, regional, and country levels from 2023-2028. Our report has categorized the market based on cell format type, material, and vehicle type.

Cell Format Type Insights:

Pouch Cell
Cylindrical Cell
Prismatic Cell

The report has provided a detailed breakup and analysis of the electric vehicle (EV) battery housing market based on the cell format type. This includes pouch, cylindrical, and prismatic cell. According to the report, cylindrical cell represented the largest segment.

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Material Insights:

Steel
Aluminum
Glass Fiber Reinforced Plastic
Carbon Fiber Reinforced Plastic

A detailed breakup and analysis of the electric vehicle (EV) battery housing market based on the material has also been provided in the report. This includes steel, aluminum, glass fiber reinforced plastic, and carbon fiber reinforced plastic. According to the report, aluminum accounted for the largest market share.

Vehicle Type Insights:

Passenger Cars
Commercial Vehicles
Two Wheelers and Three Wheelers

A detailed breakup and analysis of the electric vehicle (EV) battery housing market based on the vehicle type has also been provided in the report. This includes passenger cars, commercial vehicles, and two wheelers and three wheelers. According to the report, passenger cars accounted for the largest market share.

Regional Insights:

North America
United States
Canada
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Asia Pacific
China

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Japan
India
South Korea
Australia
Indonesia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Europe was the largest market for electric vehicle (EV) battery housing. Some of the factors driving the Europe electric vehicle (EV) battery housing market included rising adoption of EVs, increasing government initiatives, and significant technological advancements.

Competitive Landscape:
The report has also provided a comprehensive analysis of the competitive landscape in the global electric vehicle (EV) battery housing market. Competitive analysis such as market structure, market share by key players, player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided. Some of the companies covered include Constellium SE, Gestamp Automoci?n, S.A., GF Casting Solutions, Minth Group Ltd., Nemak S.A.B. de C.V., Norsk Hydro ASA, Novelis Inc. (Hindalco Industries Limited), Proterial, Ltd., Teijin Automotive Technologies, thyssenkrupp AG, TRB Lightweight, UACJ Corporation, etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

Key Questions Answered in This Report:
How has the global electric vehicle (EV) battery housing market performed so far, and how will it perform in the coming years?
What are the drivers, restraints, and opportunities in the global electric vehicle (EV)

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battery housing market?
What is the impact of each driver, restraint, and opportunity on the global electric vehicle (EV) battery housing market?
What are the key regional markets?
Which countries represent the most attractive electric vehicle (EV) battery housing market?
What is the breakup of the market based on the cell format type?
Which is the most attractive cell format type in the electric vehicle (EV) battery housing market?
What is the breakup of the market based on the material?
Which is the most attractive material in the electric vehicle (EV) battery housing market?
What is the breakup of the market based on vehicle type?
Which is the most attractive vehicle type in the electric vehicle (EV) battery housing market?
What is the competitive structure of the global electric vehicle (EV) battery housing market?
Who are the key players/companies in the global electric vehicle (EV) battery housing market?

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