

EV Battery Management Market by Vehicle Type (Electric Cars, LCV, HCV, E-scooters & Motorcycles, and E-bikes), Configuration, Design, Topology, Voltage, Cell Balancing Method, and Geography - Global Forecast to 2029

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Abstracts

EV Battery Management Systems Market by Vehicle Type (Electric Cars, LCV, HCV, E-scooters & Motorcycles, and E-bikes), Configuration, Design, Topology, Voltage, Cell Balancing Method, and Geography – Global Forecast to 2029

The research report titled, 'EV Battery Management Systems Market by Vehicle Type (Electric Cars, LCV, HCV, E-scooters & Motorcycles, and E-bikes), Configuration, Design, Topology, Voltage, Cell Balancing Method, and Geography – Global Forecast to 2029', provides an in-depth analysis of the EV battery management systems market across five major geographies and emphasizes on the current market trends, market sizes, market shares, recent developments, and forecasts till 2029. The EV battery management systems market is projected to reach \$37.3 billion by 2029, at a CAGR of 30.5% during the forecast period of 2022–2029.

The EV battery management systems market is segmented based on vehicle type, configuration, design, topology, voltage, cell balancing method, and geography. The study also evaluates industry competitors and analyzes the market at the regional and country levels.

Based on vehicle type, the light commercial vehicles segment is slated to register the highest CAGR during the forecast period. The growth of this segment is attributed to the increasing awareness regarding the role of electric vehicles in reducing emissions, the high demand for electric vehicles to reduce fleet emissions, and stringent government

rules and regulations regarding vehicle emissions.

Based on configuration, the 144 cells to 180 cells segment is slated to register the highest CAGR during the forecast period. The growth of this segment is attributed to the increasing adoption of electric light commercial vehicles by retail MNCs and transport fleet operators, the higher energy capacity requirements of EV batteries to facilitate long-range driving, and the increasing adoption of electric buses by municipalities to reduce tailpipe emissions and carbon footprint of the transport sector.

Based on design, in 2022, the battery management systems segment is expected to account for the larger share of the EV battery management systems market. The large market share of this segment is attributed to the benefits offered by battery management systems, such as monitoring the voltage and current in a battery pack, cell balancing capabilities, and protection against overcharge and deep discharge.

Based on geography, the EV battery management systems market is segmented into five major geographies: North America, Europe, Asia-Pacific, Latin America, and the Middle East & Africa. In 2022, Asia-Pacific is expected to account for the largest share of the EV battery management systems market. The major market share of this region is attributed to the growing number of start-ups offering numerous battery solutions, the leadership of China in global EV battery manufacturing capacities, and the increasing investments in battery management systems by major market players.

The key players operating in the EV battery management systems market are Leclanché SA (Switzerland), Sensata Technologies Holding PLC (U.S.), Nuvation Energy (U.S.), Renesas Electronics Corporation (Japan), Eberspächer Veacture Inc. (Canada), ST Microelectronics N.V. (Switzerland), Panasonic Corporation (Japan), LION Smart GmbH (Germany), Ewert Energy Systems, Inc. (U.S.), Navitas Systems LLC. (U.S.), NXP Semiconductors N.V. (Netherlands), Analog Devices, Inc. (U.S.), Merlin Equipment Ltd. (UK), BMS PowerSafe (France), and Maxim Integrated (U.S.).

Key questions answered in the report-

Which are the high-growth market segments in terms of vehicle type, configuration, design, topology, voltage, cell balancing, and geography?

What is the historical market size for EV battery management systems across the globe?

What are the market forecasts and estimates for the period 2022-2029?

What are the major drivers, restraints, and opportunities in the EV battery management systems market?

Who are the major players in the EV battery management systems market, and what market shares do they hold?

Who are the major players in various countries, and what market shares do they hold?

How is the competitive landscape?

What are the recent developments in the EV battery management systems market?

What are the different strategies adopted by major players in the EV battery management systems market?

What are the geographical trends in high-growth countries?

Who are the local emerging players in the EV battery management systems market, and how do they compete with other players?

Scope of the Report:

EV Battery Management Systems Market, by Vehicle Type

Electric Cars

Battery Electric Vehicles

Plug-in Hybrid Electric Vehicles

Hybrid Electric Vehicles

Light Commercial Vehicles

Heavy Commercial Vehicles

E-scooters & Motorcycles

E-bikes

EV Battery Management Systems Market, by Configuration

Up to 36 Cells

48 Cells to 84 Cells

96 Cells to 132 Cells

144 Cells to 180 Cells

More Than 180 Cells

EV Battery Management Systems Market, by Design

Protection Circuit Model

Battery Management Systems

EV Battery Management Systems Market, by Topology

Centralized BMS

De-centralized BMS

Modular BMS

EV Battery Management Systems Market, by Voltage

Low-voltage BMS

High-voltage BMS

EV Battery Management Systems Market, by Cell Balancing Method

Active Cell Balancing

Passive Cell Balancing

EV Battery Management Systems Market, by Geography

Asia-Pacific

China

India

Japan

South Korea

Thailand

Indonesia

Rest of APAC

Europe

U.K.

Germany

France

Italy

Spain

Poland

Hungary

Norway

Sweden

Denmark

Rest of Europe

North America

U.S.

Canada

Latin America

Middle East & Africa

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