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Global New Energy Vehicle Battery Cooling Plate Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on New Energy Vehicle Battery Cooling Plate competitive dynamics, regional economic interdependencies, and supply chain reconfigurations.The battery cooling plate is a component in the battery thermal management system that directly exchanges heat with the battery. The liquid cooling plate is a product component of the liquid cooling radiator. Its heat dissipation principle is to form a flow channel in the metal plate. The electronic components are installed on the surface of the water cooling plate and coated with a heat-conducting medium in between. The internal coolant enters from the inlet of the plate and then takes away the heat conducted by the components from the outlet. According to the different shapes and structures, the common liquid cooling plates in the market are mainly harmonica tube type, stamping type, extrusion type, inflation type and other types. In the field of new energy vehicles, the battery liquid cooling plate is a component in the battery thermal management system that directly exchanges heat with the battery. The coolant in the liquid cooling plate flow channel transfers the heat generated by the battery to the cooling device or transports the heat to the battery through the coolant, so as to maintain the battery temperature in the range of 20?-35? that is most suitable for its working efficiency.The liquid cooling plate for new energy vehicle (NEV) batteries is a critical component in thermal management systems. Typically made of metals (e.g., aluminum alloy) or composites, it features internal microchannels that circulate coolant (e.g., water-glycol mixtures) to absorb and dissipate heat generated during battery charging/discharging. This ensures the battery operates within an optimal temperature range (20?40?C), enhancing performance, safety, and longevity.Future Trends1. Lightweight & High Thermal Conductivity Materials: Adoption of aluminum composites, graphene coatings, or 3D-printed structures to optimize weight and heat dissipation.2.

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Integrated Design: Deep integration with battery modules (e.g., CTP/CTC technologies) to reduce complexity and improve space efficiency.3. Smart Thermal Management: AI-driven control systems with sensors enable dynamic zonal temperature regulation, supporting ultra-fast charging (e.g., 800V platforms) and extreme conditions.4. Sustainability: Shift toward recyclable materials and eco-friendly coolants (e.g., propylene glycol replacing ethylene glycol).5. Multifunctional Systems: Synergy with heat pumps to reuse energy for both battery heating (in winter) and cooling (in summer).6. Cost Reduction via Scale: Automated and standardized manufacturing processes will lower costs as NEV adoption accelerates globally.BEVs will lead the zero-emission future with PHEVs as a transitional bridge, while FCEVs and HEVs carve niche roles. Success hinges on battery innovation, infrastructure investment, and policy alignment.From the perspective of product type and technology, it can be divided into harmonica tube type, stamping type and inflation type. The harmonica tube liquid cooling plate has the advantages of arbitrary flow channel design, large contact area, good heat exchange effect, high production efficiency, good pressure resistance and strength, but because it needs to be molded, the cost is high, and the flatness requirements are high, and the installation is difficult. However, due to its soft material, it has a large shortcoming in pressure resistance and strength. Its flow channel is single, the contact area is small, and the pipe wall is thin, resulting in its general heat exchange effect and poor load-bearing capacity. It is expected that the harmonica tube type will be gradually eliminated. The stamping liquid cooling plate has excellent heat dissipation performance: complex flow channels are formed through the stamping process, the heat dissipation area is large, and the temperature distribution is uniform. The thin-wall design reduces the amount of material used and is suitable for lightweight requirements. The flow channel can be customized to adapt to different battery module shapes (such as CTP/CTC technology). It is the mainstream technical direction, especially widely used in high-performance BEV and fast charging scenarios. The inflatable liquid cooling plate forms a complex internal flow channel through the inflating process, and the heat dissipation path is optimized. Due to the low yield rate and high cost of the inflating process, and the integrated design makes it difficult to repair after local damage, it is currently mainly used in high-end models and customized battery packs.From the perspective of product market application, pure electric vehicles are the main force in the market. In 2024, pure electric vehicle applications accounted for more than 70% of the battery cooling plate application share. Pure electric vehicles will lead the zero-emission future, plug-in hybrid electric vehicles will become a transition bridge, and fuel cell electric vehicles and hybrid electric vehicles will occupy their respective market segments. Success depends on battery innovation, infrastructure investment and policy coordination.Currently, the world's major manufacturers include Valeo, MAHLE, Yinlun Holdings, Sanhua Auto Parts,

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Nabaichuan, Dana, Boyd Corporation, Cotran, Modine Manufacturing, ESTRA Automotive, ONEGENE, Hubei Reddit Cooling System, Trumony Aluminum, Runthrough Heat Exchange, Shenzhen FRD, XD THERMAL, Anhui ARN Group, Hengchuang Thermal Management, Sogefi Group, Nippon Light Metal, etc. In 2024, the market share of major manufacturers will exceed 60%. It is expected that industry competition will become more intense in the next few years, especially in the Chinese market.

The global New Energy Vehicle Battery Cooling Plate market size was estimated at USD 1761.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 16.80% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global New Energy Vehicle Battery Cooling Plate market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global New Energy Vehicle Battery Cooling Plate market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the New Energy Vehicle Battery Cooling Plate market.

Global New Energy Vehicle Battery Cooling Plate Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the

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overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Valeo
Dana
MAHLE
Modine Manufacturing
Boyd Corporation
Nippon Light Metal
ESTRA Automotive
Sogefi Group
ONEGENE
Nabaichuan Holding
Runthrough Heat Exchange
Yinlun
Sanhua Group
Cotran
Trumony Aluminum
Hubei Reddit Cooling System
Shenzhen FRD
Anhui ARN Group
XD THERMAL
Hengchuang Thermal Management

Market Segmentation (by Type)

Harmonica Tube Type
Stamping Type
Inflatable Type

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Market Segmentation (by Application)

Battery Electric Vehicles (BEVs)
Plug-in Hybrid Electric Vehicles (PHEVs)
Others

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the New Energy Vehicle Battery Cooling Plate Market
Overview of the regional outlook of the New Energy Vehicle Battery Cooling Plate Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future

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development potential, and so on. It offers a high-level view of the current state of the New Energy Vehicle Battery Cooling Plate Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of New Energy Vehicle Battery Cooling Plate, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development

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potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change
This enables you to anticipate market changes to remain ahead of your competitors
You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents
The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly
Provision of market value data for each segment and sub-segment
Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market
Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region
Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled
Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players
The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions
Includes in-depth analysis of the market from various perspectives through Porter?s five forces analysis
Provides insight into the market through Value Chain
Market dynamics scenario, along with growth opportunities of the market in the years to come
6-month post-sales analyst support

Customization of the Report

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