

Global Battery Pack Liquid 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 Battery Pack Liquid Cooling Plate competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. A battery cooling plate is a critical component in battery thermal management systems, typically constructed from high thermal conductivity materials (e.g., aluminum alloy, copper alloy, or composites). It incorporates internal flow channels to circulate cooling media (e.g., liquid or phase-change materials), enabling precise temperature control. Key functions include: Heat Dissipation: Rapidly removing heat generated during battery charging/discharging to prevent thermal runaway; Temperature Uniformity: Ensuring even temperature distribution across battery cells to avoid localized overheating; Heating (in specific scenarios): Pre-warming batteries in low-temperature environments to maintain optimal operating temperatures (e.g., 20?35?C). Widely used in new energy vehicle (NEV) batteries, energy storage systems (ESS), and high-density server backup power systems, it is a core technology for enhancing battery safety, efficiency, and lifespan. A battery cooling plate is a critical component in battery thermal management systems, typically constructed from high thermal conductivity materials (e.g., aluminum alloy, copper alloy, or composites). It incorporates internal flow channels to circulate cooling media (e.g., liquid or phase-change materials), enabling precise temperature control. Key functions include: Heat Dissipation: Rapidly removing heat generated during battery charging/discharging to prevent thermal runaway; Temperature Uniformity: Ensuring even temperature distribution across battery cells to avoid localized overheating; Heating (in specific scenarios): Pre-warming batteries in low-temperature environments to maintain optimal operating temperatures (e.g., 20?35?C). Widely used in new energy vehicle (NEV) batteries, energy storage systems (ESS), and high-density server backup power

systems, it is a core technology for enhancing battery safety, efficiency, and lifespan.

Current Applications

1. New Energy Vehicles (NEVs)

Liquid Cooling Dominance:

Liquid cooling plates are widely adopted in NEVs (e.g., BEVs, PHEVs) due to their high heat dissipation efficiency, ensuring optimal battery temperature (20-35°C) and preventing thermal runaway. Aluminum-based designs (stamped, extruded) dominate the market, with key players like Valeo, MAHLE, and Modine leading innovation.

Integration with Battery Systems:

Advanced designs like CTP (Cell-to-Pack) and CTC (Cell-to-Chassis) integrate cooling plates into structural components (e.g., CATL's "Qilin Battery"), enhancing energy density and thermal uniformity.

3. Energy Storage Systems (ESS)

Immersion Cooling Breakthrough:

Immersion liquid cooling (e.g., Zhuhai KeChuang's system in the Meizhou Baohu ESS project) submerges batteries in non-conductive coolant, eliminating fire risks and improving thermal consistency. This technology is now deployed in grid-scale projects in China.

Safety and Efficiency:

Liquid cooling replaces air cooling in large-scale ESS due to its ability to manage high heat loads and extend battery lifespan.

3. Data Centers/Servers

High-Density Cooling:

Immersion cooling systems (e.g., Narada Power's solid-state batteries, NARADA's 783 Ah cells) are used in data centers to address lithium-ion battery thermal risks during high-density operations. These systems reduce footprint by 50% and enable AI-driven predictive maintenance.

Safety Innovations:

Semi-solid-state batteries and in-situ electrolyte film technologies mitigate leakage risks while maintaining high energy density (e.g., 430 Wh/L).

Future Trends

1. Lightweight & High Thermal Conductivity Materials:

Adoption of aluminum composites, graphene coatings, or 3D-printed structures to optimize weight and heat dissipation.

2. 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.

Currently, the world's major manufacturers include Valeo, MAHLE, Yinlun Holdings, Sanhua Auto Parts, 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 Battery Pack Liquid Cooling Plate market size was estimated at USD 1946.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 21.70% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Battery Pack Liquid 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 Battery Pack Liquid 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 Battery Pack Liquid Cooling Plate market.

Global Battery Pack Liquid 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 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

Market Segmentation (by Application)

New Energy Vehicles (NEVs)
Energy Storage Systems (ESS)
Data Centers/Servers

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 Battery Pack Liquid Cooling Plate Market

Overview of the regional outlook of the Battery Pack Liquid 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 development potential, and so on. It offers a high-level view of the current state of the Battery Pack Liquid 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 Battery Pack Liquid 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 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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