

Global Battery Module Cooling Plate Market Growth 2026-2032

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Abstracts

The global Battery Module Cooling Plate market size is predicted to grow from US\$ 2519 million in 2025 to US\$ 10150 million in 2032; it is expected to grow at a CAGR of 22.5% from 2026 to 2032.

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.

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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.

LP Information, Inc. (LPI) ' newest research report, the "Battery Module Cooling Plate Industry Forecast" looks at past sales and reviews total world Battery Module Cooling Plate sales in 2025, providing a comprehensive analysis by region and market sector of projected Battery Module Cooling Plate sales for 2026 through 2032. With Battery Module Cooling Plate sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Battery Module Cooling Plate industry.

This Insight Report provides a comprehensive analysis of the global Battery Module Cooling Plate landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Battery Module Cooling Plate portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Battery Module Cooling Plate market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Battery Module Cooling Plate and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Battery Module Cooling Plate.

This report presents a comprehensive overview, market shares, and growth opportunities of Battery Module Cooling Plate market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Harmonica Tube Type

Stamping Type

Inflatable Type

Segmentation by Application:

New Energy Vehicles (NEVs)

Energy Storage Systems (ESS)

Data Centers/Servers

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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

Key Questions Addressed in this Report

What is the 10-year outlook for the global Battery Module Cooling Plate market?

What factors are driving Battery Module Cooling Plate market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Battery Module Cooling Plate market opportunities vary by end market size?

How does Battery Module Cooling Plate break out by Type, by Application?

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