

Global Liquid Cooling Plate for Electric Vehicle Batteries Market Growth 2026-2032

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Abstracts

The global Liquid Cooling Plate for Electric Vehicle Batteries market size is predicted to grow from US\$ 509 million in 2025 to US\$ 833 million in 2032; it is expected to grow at a CAGR of 6.5% from 2026 to 2032.

Electric Vehicle Battery Liquid Cooling Plates are thermal management components designed to remove heat from high-voltage battery cells and modules in electric vehicles. They maintain battery temperature within optimal operating ranges to improve performance, longevity, and safety. These plates typically use liquid coolant channels integrated into a metal or composite substrate and are widely applied in passenger EVs, commercial EVs, and hybrid vehicle battery packs. The industrial chain of EV Battery Liquid Cooling Plates includes upstream materials such as aluminum or copper substrates, precision machining components, coolant channels, thermal interface materials, and sealing elements. The midstream consists of specialized thermal management system manufacturers integrating coolant flow design, channel optimization, and assembly into battery modules. Downstream applications include EV battery pack manufacturers, electric vehicle OEMs, and hybrid vehicle producers. Supporting services include thermal testing, system integration, design optimization, and maintenance services to ensure thermal efficiency, reliability, and battery safety. In 2025, global Electric Vehicle Battery Liquid Cooling Plate production reached approximately 325,000 units, with an average global market price of around US\$1,600 per unit. The gross profit margin of major companies in the industry is between 20%-38%. In 2025, the global production capacity of Electric Vehicle Battery Liquid Cooling Plates was approximately 433,333 units.

The market for liquid cooling plates for electric vehicle (EV) batteries is a core segment of the thermal management systems used in new energy vehicle power batteries; its

growth is primarily driven by the rising number of EVs on the road, increasing battery energy density, and stricter safety requirements regarding temperature control. As high-performance battery modules become widely adopted, liquid cooling plates serve as critical thermal management components that ensure batteries operate within optimal temperature ranges, thereby extending driving range and service life while mitigating the risk of thermal runaway. Technological trends such as high-efficiency flow path designs, low-resistance cooling channels, the use of lightweight materials, and modular integration enable these cooling plates to accommodate diverse battery chemistries and the demands of high-power batteries. Meanwhile, automakers and battery manufacturers are demanding higher standards for thermal management system reliability, production consistency, and standardization, a trend that is driving industry consolidation. Overall, this market is characterized by inelastic demand and high technical barriers; closely tied to the growth of new energy vehicle production, it is poised for continued steady expansion.

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

This Insight Report provides a comprehensive analysis of the global Liquid Cooling Plate for Electric Vehicle Batteries 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 Liquid Cooling Plate for Electric Vehicle Batteries portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Liquid Cooling Plate for Electric Vehicle Batteries market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Liquid Cooling Plate for Electric Vehicle Batteries 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

Liquid Cooling Plate for Electric Vehicle Batteries.

This report presents a comprehensive overview, market shares, and growth opportunities of Liquid Cooling Plate for Electric Vehicle Batteries market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Brazed Liquid Cooling Plate

Friction Stir Welded Liquid Cooling Plate

Roll-Bonded Liquid Cooling Plate

Segmentation by Material Type:

Aluminum Alloy EV Battery Liquid Cooling Plate

Copper EV Battery Liquid Cooling Plate

Stainless Steel EV Battery Liquid Cooling Plate

Composite Material EV Battery Liquid Cooling Plate

Segmentation by Plate Thickness:

Below 2 mm

2 mm to 5 mm

Above 5 mm

Segmentation by Application:

Passenger Vehicles

Commercial Vehicles

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.

MAHLE GmbH

Dana Incorporated

Valeo SA

XD Thermal

ToneCooling Technology

Boyd Corporation

Alkraft Thermotechnologies

Trumonytechs

LORI

Key Questions Addressed in this Report

What is the 10-year outlook for the global Liquid Cooling Plate for Electric Vehicle Batteries market?

What factors are driving Liquid Cooling Plate for Electric Vehicle Batteries market growth, globally and by region?

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

How do Liquid Cooling Plate for Electric Vehicle Batteries market opportunities vary by end market size?

How does Liquid Cooling Plate for Electric Vehicle Batteries break out by Type, by Application?

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