

Global Liquid Cooling Plate for Electric Vehicle Batteries Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Liquid Cooling Plate for Electric Vehicle Batteries market size is expected to reach \$ 857 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

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.

This report studies the global Liquid Cooling Plate for Electric Vehicle Batteries production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Liquid Cooling Plate for Electric Vehicle Batteries and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Liquid Cooling Plate for Electric Vehicle Batteries that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Liquid Cooling Plate for Electric Vehicle Batteries total production and demand, 2021-2032, (K Units)

Global Liquid Cooling Plate for Electric Vehicle Batteries total production value, 2021-2032, (USD Million)

Global Liquid Cooling Plate for Electric Vehicle Batteries production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Liquid Cooling Plate for Electric Vehicle Batteries consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Liquid Cooling Plate for Electric Vehicle Batteries domestic production, consumption, key domestic manufacturers and share

Global Liquid Cooling Plate for Electric Vehicle Batteries production by manufacturer,

production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Liquid Cooling Plate for Electric Vehicle Batteries production by Type,
production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Liquid Cooling Plate for Electric Vehicle Batteries production by Application,
production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Liquid Cooling Plate for Electric Vehicle Batteries market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include MAHLE GmbH, Dana Incorporated, Valeo SA, XD Thermal, ToneCooling Technology, Boyd Corporation, Alkraft Thermotechnologies, Trumonytechs, LORI, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Liquid Cooling Plate for Electric Vehicle Batteries market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Liquid Cooling Plate for Electric Vehicle Batteries Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Liquid Cooling Plate for Electric Vehicle Batteries Market, Segmentation by Type:

Brazed Liquid Cooling Plate

Friction Stir Welded Liquid Cooling Plate

Roll-Bonded Liquid Cooling Plate

Global Liquid Cooling Plate for Electric Vehicle Batteries Market, 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

Global Liquid Cooling Plate for Electric Vehicle Batteries Market, Segmentation by Plate Thickness:

Below 2 mm

2 mm to 5 mm

Above 5 mm

Global Liquid Cooling Plate for Electric Vehicle Batteries Market, Segmentation by Application:

Passenger Vehicles

Commercial Vehicles

Companies Profiled:

MAHLE GmbH

Dana Incorporated

Valeo SA

XD Thermal

ToneCooling Technology

Boyd Corporation

Alkraft Thermotechnologies

Trumonytechs

LORI

Key Questions Answered:

1. How big is the global Liquid Cooling Plate for Electric Vehicle Batteries market?
2. What is the demand of the global Liquid Cooling Plate for Electric Vehicle Batteries market?
3. What is the year over year growth of the global Liquid Cooling Plate for Electric Vehicle Batteries market?
4. What is the production and production value of the global Liquid Cooling Plate for Electric Vehicle Batteries market?
5. Who are the key producers in the global Liquid Cooling Plate for Electric Vehicle Batteries market?

6. What are the growth factors driving the market demand?

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