

Global Battery Cooling Systems Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Battery Cooling Systems market size is expected to reach \$ 2966 million by 2032, rising at a market growth of 9.8% CAGR during the forecast period (2026-2032). A battery cooling system is a thermal management device used to regulate and stabilize the temperature of a power battery. It maintains the battery within its optimal operating range of approximately 20-40°C through methods such as liquid cooling, air cooling, refrigerant cooling, or phase change materials. The system typically consists of a cold plate, liquid cooling piping, heat exchanger, cooling pump, sensors, and controllers. It continuously dissipates heat or heats the battery under complex operating conditions such as fast charging, high speed, extreme cold, and extreme heat, ensuring battery safety, performance output, and stable lifespan. It is the most critical 'temperature brain' behind electric vehicles, energy storage systems, and industrial battery packs, determining fast charging capability, range performance, and safety limits. The average price of this product is approximately \$260-320 per unit, with global sales of approximately 5.3 million units.

With the increasing penetration rate of new energy vehicles, the widespread adoption of 800V high-voltage platforms, and the large-scale deployment of energy storage systems, battery cooling systems are upgrading from traditional auxiliary components to a core technology link in the new energy industry chain. Liquid cooling is becoming mainstream, and refrigerant direct cooling and heat pump integrated solutions are rapidly emerging, driving thermal management from 'heat dissipation' to 'intelligent temperature control.' The global market is expanding rapidly, and leading suppliers are accelerating their deployment of high-value products such as cold plates, heat pumps, and integrated thermal management modules. In the next decade, whoever achieves breakthroughs in thermal management efficiency, lightweighting, integration, and intelligence will gain the upper hand in the performance and safety of electric vehicles. This report studies the global Battery Cooling Systems production, demand, key

manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Battery Cooling Systems 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 Battery Cooling Systems that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Battery Cooling Systems total production and demand, 2021-2032, (K Units)

Global Battery Cooling Systems total production value, 2021-2032, (USD Million)

Global Battery Cooling Systems production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Battery Cooling Systems consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Battery Cooling Systems domestic production, consumption, key domestic manufacturers and share

Global Battery Cooling Systems production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Battery Cooling Systems production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Battery Cooling Systems production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Battery Cooling Systems 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 Valeo, Mahle, Hanon Systems, Denso, Modine, Dana, Bosch, CATL, Webasto, Gentherm, 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 Battery Cooling Systems 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 Battery Cooling Systems Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Battery Cooling Systems Market, Segmentation by Type:

Liquid-Cooled

Air-Cooled

Hybrid Battery Cooling

Global Battery Cooling Systems Market, Segmentation by Structural Form:

Cold Plate

Liquid Cooling Piping System

Heat Exchanger System

Other

Global Battery Cooling Systems Market, Segmentation by Control Method:

Passive Cooling

Active Cooling

Other

Global Battery Cooling Systems Market, Segmentation by Application:

New Energy Vehicles

Energy Storage System

Other

Companies Profiled:

Valeo

Mahle

Hanon Systems

Denso

Modine

Dana

Bosch

CATL

Webasto

Gentherm

Boyd Corporation

VOSS Automotive

Zhejiang Sanhua

Zhejiang Yinlun

Songz Automobile Air Conditioning

Marelli

Grayson Thermal Systems

LG Innotek

Aotecar New Energy Technology

Guangzhou Goaland Energy

Vikas Group

Key Questions Answered:

1. How big is the global Battery Cooling Systems market?
2. What is the demand of the global Battery Cooling Systems market?
3. What is the year over year growth of the global Battery Cooling Systems market?
4. What is the production and production value of the global Battery Cooling Systems market?
5. Who are the key producers in the global Battery Cooling Systems market?
6. What are the growth factors driving the market demand?

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