

Global Electric Vehicle Cooling Fan Market Growth 2026-2032

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Abstracts

The global Electric Vehicle Cooling Fan market size is predicted to grow from US\$ 885 million in 2025 to US\$ 2238 million in 2032; it is expected to grow at a CAGR of 14.4% from 2026 to 2032.

An Electric Vehicle Cooling Fan is an electrically driven fan or fan module (typically impeller + shroud + BLDC motor + controller) used in EV thermal-management to deliver variable airflow across heat exchangers (radiators/condensers) and EV cooling loops (battery, power electronics, e-motor). It enables demand-based speed control to improve cooling efficiency, NVH and energy consumption, commonly via PWM or LIN/CAN control, spanning 12V/48V and in some cases high-voltage applications.

Key upstream elements include the BLDC motor (copper windings, magnets, bearings), power/control electronics (PCB, MOSFETs/drivers, sensors), aerodynamic/structural parts (impeller and shroud), and harness/connectors. Midstream Tier-1/module suppliers integrate the motor, controller and fan system, perform calibration and validation, and co-design with the vehicle thermal architecture (e.g., brushless fan systems for powertrain/battery cooling).

In 2025, global electric vehicle cooling fan production reached approximately 20 million sets, with an average global market price of around US\$ 45 per set.

An electric vehicle (EV) cooling fan is a dedicated actuator within the EV thermal management system that forces ambient air through front-end heat exchangers to remove heat from key components such as the battery pack, traction motor, inverter, on-board charger and, in some architectures, the cabin A/C condenser. In contrast to internal-combustion vehicles where the radiator fan mainly serves the engine, an EV fan

works within multi-loop thermal circuits (battery loop, e-drive loop, HVAC/heat-pump loop, sometimes fast-charge loop) managed by a thermal control unit. Its core function is to support liquid-cooling circuits and chillers by boosting air-side heat transfer so that batteries and power electronics stay within a narrow temperature window under high load or fast-charge conditions, thereby protecting efficiency, lifetime and safety.

Technically, an EV cooling fan typically combines a high-efficiency brushless DC motor, aerodynamically optimised impeller and shroud, and integrated control electronics (often PWM or LIN/CAN controlled) to deliver high airflow and static pressure with low noise and minimal energy draw, which is critical because every extra watt consumed directly impacts driving range. Fans are usually packaged in front-end modules behind condenser/radiator stacks or dedicated e-drive radiators and operate under software control as part of a system strategy that also coordinates electric coolant pumps, valves and heat pumps. On the industry side, the shift to EVs is pushing cooling fans from low-value commodity parts toward higher-value, system-engineered components: OEMs and Tier-1s now optimise fan aerodynamics, acoustics, motor control and diagnostics together with the whole thermal architecture, while specialised suppliers of brushless fan modules, control boards and high-voltage cooling solutions are gaining strategic importance as EV power levels, fast-charging rates and integrated thermal management complexity continue to rise.

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

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

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

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

Segmentation by Type:

Brushless Electronic Fan

Brush Electronic Fan

Segmentation by Operating Voltage:

12V

48V

Others

Segmentation by Vehicle:

Passenger Cars

Commercial Vehicles

Segmentation by Application:

BEV

PHEV

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.

Brose

Bosch

Denso

Johnson Electric

Hanon Systems

BorgWarner

Valeo

Jiangsu Langxin Electric

Mahle

SPAL Automotive

SIMCO

Jiangsu Chaoli Electric

Delta Electronics

Yongxin Electric

Key Questions Addressed in this Report

What is the 10-year outlook for the global Electric Vehicle Cooling Fan market?

What factors are driving Electric Vehicle Cooling Fan market growth, globally and by region?

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

How do Electric Vehicle Cooling Fan market opportunities vary by end market size?

How does Electric Vehicle Cooling Fan break out by Type, by Application?

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