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Global Electronic Expansion Valve for Electric Vehicles Battery Thermal Management Systems Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Electronic Expansion Valve for Electric Vehicles Battery Thermal Management Systems market size was valued at US$ 199 million in 2025 and is forecast to a readjusted size of US$ 872 million by 2032 with a CAGR of 23.8% during review period.

The electronic expansion valve is composed of a controller, an actuator and a sensor. Since the temperature sensing part of the electronic expansion valve is a thermocouple or thermal resistance, it can accurately reflect the change of superheat at low temperature and provide more accurate flow adjustment. At the same time, the electronic expansion valve has a large flow control range, sensitive response, and rapid action. The fine adjustment makes up for the shortcomings that the capillary tube and the thermal expansion valve cannot be adjusted, and is more suitable for the electronic and thermal management control of electric vehicles.

Drivers: In recent years, the world's major auto powers have strengthened their strategic planning and policy support, and multinational auto companies have increased investment in R&D and improved their industrial layout. New energy vehicles have become the main direction for the transformation and development of the global auto industry and an important engine for the sustained growth of the world economy.

Advancements in EV Technology: As electric vehicles continue to evolve, there's a constant push for technological advancements to enhance various vehicle components. EEVs represent a more sophisticated and precise technology compared to traditional

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valves, aligning with the tech advancements in EVs.

Efficiency and Performance Optimization: EEVs help regulate the flow of refrigerant in the vehicle's air conditioning system more precisely compared to traditional mechanical expansion valves. This precise control enhances the system's efficiency and overall performance.

Restrictions: High Initial Costs: Implementing EEVs involves higher initial costs compared to traditional mechanical valves. This cost factor could slow down their adoption, especially for manufacturers aiming to keep the production costs of EVs competitive.

Limited Market Penetration: As a relatively newer technology in the automotive sector, the penetration of EEVs might be slow due to inertia in adopting advanced systems. Established technologies often have a stronghold, making it challenging for newer technologies to gain widespread acceptance.

Reliability and Durability Concerns: EEVs need to demonstrate high reliability and durability, meeting automotive-grade standards for robustness, endurance, and resilience to various environmental conditions. Any doubts regarding their longevity could limit their acceptance.

This report is a detailed and comprehensive analysis for global Electronic Expansion Valve for Electric Vehicles Battery Thermal Management Systems market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Electronic Expansion Valve for Electric Vehicles Battery Thermal Management Systems market size and forecasts, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Electronic Expansion Valve for Electric Vehicles Battery Thermal Management Systems market size and forecasts by region and country, in consumption value ($

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Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Electronic Expansion Valve for Electric Vehicles Battery Thermal Management Systems market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (K Units), and average selling prices (US$/Unit), 2021-2032

Global Electronic Expansion Valve for Electric Vehicles Battery Thermal Management Systems market shares of main players, shipments in revenue ($ Million), sales quantity (K Units), and ASP (US$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Electronic Expansion Valve for Electric Vehicles Battery Thermal Management Systems

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Electronic Expansion Valve for Electric Vehicles Battery Thermal Management Systems market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Zhejiang Sanhua Automotive Components, TGK, Zhejiang Dun’an Artificial Environment, HANON, Egelhof, Fujikoki, Schrader Pacific Advanced Valves (Pacific Industrial), XINJING, Hilite International, Ningbo Tuopu, etc.

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

Market Segmentation

Electronic Expansion Valve for Electric Vehicles Battery Thermal Management Systems market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand

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your business by targeting qualified niche markets.

Market segment by Type

LIN Control

PWM Control

Market segment by Application

BEV

HEV and PHEV

Major players covered

Zhejiang Sanhua Automotive Components

TGK

Zhejiang Dun’an Artificial Environment

HANON

Egelhof

Fujikoki

Schrader Pacific Advanced Valves (Pacific Industrial)

XINJING

Hilite International

Ningbo Tuopu

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Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Electronic Expansion Valve for Electric Vehicles Battery Thermal Management Systems product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Electronic Expansion Valve for Electric Vehicles Battery Thermal Management Systems, with price, sales quantity, revenue, and global market share of Electronic Expansion Valve for Electric Vehicles Battery Thermal Management Systems from 2021 to 2026.

Chapter 3, the Electronic Expansion Valve for Electric Vehicles Battery Thermal Management Systems competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Electronic Expansion Valve for Electric Vehicles Battery Thermal Management Systems breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Electronic Expansion Valve for Electric Vehicles Battery Thermal

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Management Systems market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Electronic Expansion Valve for Electric Vehicles Battery Thermal Management Systems.

Chapter 14 and 15, to describe Electronic Expansion Valve for Electric Vehicles Battery Thermal Management Systems sales channel, distributors, customers, research findings and conclusion.

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