

Global PWM-Controlled Electronic Expansion Valve for Electric Vehicles Market Growth 2026-2032

<https://marketpublishers.com/r/GB67035A0498EN.html>

Date: July 2026

Pages: 92

Price: US\$ 3,660.00 (Single User License)

ID: GB67035A0498EN

Abstracts

The global PWM-Controlled Electronic Expansion Valve for Electric Vehicles market size is predicted to grow from US\$ 363 million in 2025 to US\$ 803 million in 2032; it is expected to grow at a CAGR of 11.1% from 2026 to 2032.

PWM-Controlled Electronic Expansion Valve for Electric Vehicles refers to an electronic expansion valve used in new energy vehicle thermal management systems that receives commands from the vehicle controller or thermal management controller through pulse-width modulation signals and regulates refrigerant flow and throttling status. The product typically consists of a valve body, valve needle or valve core, stepper motor or electromagnetic actuator, drive circuit, PWM signal interface, sealing structure, and connectors. It is mainly used in battery thermal management, cabin air conditioning, heat pump systems, electric drive cooling, and power electronics cooling. PWM control features a relatively mature structure, simple control logic, lower cost, and fast response, making it suitable for electric vehicle thermal management systems with higher cost sensitivity, simplified control architecture, or mature platform-based designs. In 2025, global production of PWM-Controlled Electronic Expansion Valves for Electric Vehicles reached 19.058 million units, with an average selling price of USD 19.47 per unit.

The PWM-Controlled Electronic Expansion Valve for Electric Vehicles industry is a fundamental actuator segment within new energy vehicle thermal management systems. These valves are mainly used for refrigerant throttling, flow regulation, pressure control, and thermal management mode switching. As electric vehicles require more advanced battery temperature control, cabin comfort, heat pump efficiency, and e-drive cooling, electronic expansion valves have become core valve components in vehicle thermal management circuits. PWM-controlled products maintain strong

adoption in economy, mid-range, and mature platform-based vehicle models due to their mature technology, controllable cost, simple control architecture, and well-established supply chain.

In terms of product structure, PWM-controlled electronic expansion valves mainly include direct-acting, stepper-motor-driven, electromagnetic-actuated, and integrated-drive designs, with stepper-motor-driven products more widely used in passenger vehicle thermal management systems. By system position, these valves are mainly used in cabin air conditioning circuits, battery cooling circuits, auxiliary heat pump circuits, and e-drive or power electronics cooling circuits. By refrigerant compatibility, mainstream products are still mainly based on R134a and R1234yf automotive air-conditioning platforms, while some suppliers are also developing new valve products compatible with CO₂/R744 and low-GWP refrigerants.

From the application perspective, passenger vehicles represent the main demand base for PWM-controlled electronic expansion valves, especially in economy electric vehicles, plug-in hybrid vehicles, and mature vehicle platforms. Commercial vehicles, electric buses, and special-purpose vehicles place greater emphasis on durability, vibration resistance, wide-temperature adaptability, and ease of maintenance. Compared with LIN-controlled products, PWM-controlled valves have simpler functions in communication diagnostics, status feedback, and software-level coordination, but they offer clear advantages in cost, reliability, supply stability, and system compatibility. Therefore, they are expected to maintain stable demand in mid- to low-end and high-volume vehicle platforms.

On the manufacturing side, the main production processes include precision machining of valve bodies, valve needle or core forming, actuator assembly, coil or motor assembly, drive circuit soldering, sealing component installation, leak testing, flow calibration, pressure testing, and durability validation. The cost structure is mainly composed of valve bodies and precision mechanical parts, actuating motors or electromagnetic components, sealing materials, connectors, basic drive circuits, automated assembly, and testing processes. A mature automated production line typically has a single-line annual capacity of 1.0~2.5 million units, depending on product standardization, testing cycle time, automation level, and customer qualification requirements. The industry gross margin is generally 20%~30%; platform-based high-volume orders and highly automated production lines can improve manufacturing efficiency, while low-end standardized products face stronger pricing pressure.

From the value chain and competitive landscape perspective, upstream suppliers

provide aluminum alloy or stainless-steel materials, precision machined parts, stepper motors or electromagnetic actuators, magnetic materials, basic driver ICs, PCBs, connectors, rubber seals, and refrigerant-compatible materials. Midstream players are electronic expansion valve and thermal management valve manufacturers, while downstream customers include automakers, automotive air-conditioning system suppliers, thermal management module integrators, and battery thermal management system manufacturers. Competition is mainly based on product consistency, leakage control, durability validation, fast delivery, cost control, and platform supply capability. Looking forward, PWM-controlled products will continue to upgrade toward smaller size, lower noise, lower leakage, higher reliability, and more automated manufacturing, while forming a tiered application pattern with LIN-controlled products in higher-end electric vehicle platforms.

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

This Insight Report provides a comprehensive analysis of the global PWM-Controlled Electronic Expansion Valve for Electric Vehicles 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 PWM-Controlled Electronic Expansion Valve for Electric Vehicles portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global PWM-Controlled Electronic Expansion Valve for Electric Vehicles market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for PWM-Controlled Electronic Expansion Valve for Electric Vehicles 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 PWM-Controlled Electronic Expansion Valve for Electric Vehicles.

This report presents a comprehensive overview, market shares, and growth opportunities of PWM-Controlled Electronic Expansion Valve for Electric Vehicles market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

EXV for Air Conditioning Thermal Management

EXV for Battery Thermal Management

Segmentation by Driving Method:

Electromagnetic Type

Electro-electric Type

Segmentation by Sales Channel:

Direct Sales

Distribution

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.

Zhejiang Sanhua Automotive Components

TGK

Zhejiang Dun'an Artificial Environment

HANON

Egelhof

Fujikoki

Schrader Pacific Advanced Valves (Pacific Industrial)

XINJING

Hilite International

Ningbo Tuopu

Key Questions Addressed in this Report

What is the 10-year outlook for the global PWM-Controlled Electronic Expansion Valve for Electric Vehicles market?

What factors are driving PWM-Controlled Electronic Expansion Valve for Electric Vehicles market growth, globally and by region?

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

How do PWM-Controlled Electronic Expansion Valve for Electric Vehicles market

opportunities vary by end market size?

How does PWM-Controlled Electronic Expansion Valve for Electric Vehicles break out by Type, by Application?

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