

Global Electric Vehicle Hall Current Sensors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Electric Vehicle Hall Current Sensors market size is expected to reach \$ 315 million by 2032, rising at a market growth of 10.4% CAGR during the forecast period (2026-2032).

In 2025, global Electric Vehicle Hall Current Sensor production reached approximately 90.4 M Units, with an average global market price of around 1.7 USD per Unit.

Electric Vehicle Hall Current Sensor are current-measurement devices specifically designed for automotive electronic and electrical systems. They use the Hall effect to detect the magnetic field generated around a current-carrying conductor and convert it into an analog or digital output signal proportional to the measured current.

The upstream raw materials for Electric Vehicle Hall Current Sensor mainly include monocrystalline silicon, photomasks, photoresists, bonding materials, etc. Typical raw material suppliers include Shin-Etsu Chemical, SUMCO, Siltronic, SK Siltron, Tekscend Photomask, Photronics, DNP, Tokyo Ohka Kogyo, JSR, etc. The downstream applications are mainly in industrial automation and motor drives, new energy vehicles, energy storage, consumer electronics, etc. Typical users include Siemens, ABB, Schneider Electric, Rockwell Automation, Tesla, BYD, NIO, Li Auto, etc.

The single-line capacity of Electric Vehicle Hall Current Sensor varies greatly due to factors such as wafer capacity, packaging capability, calibration and testing cycle time, and finished product yield. The industry gross profit margin is approximately 35%-55%.

Electric Vehicle Hall Current Sensor applications measure DC, AC, and pulsed currents by detecting the magnetic field generated around a current-carrying conductor. Their

distinctive advantages include non-contact sensing, galvanic isolation, low power loss, fast response, and bidirectional current measurement. As high-voltage and low-voltage electrical architectures in electric vehicles become increasingly complex, traction inverters, battery management systems, onboard chargers, and DC-DC converters must simultaneously support precise control, rapid protection, and high-voltage safety. Conventional current-measurement solutions face growing limitations related to heat generation, isolation, size, and dynamic response. Automotive Hall-based current sensors provide real-time current feedback without introducing significant losses into the primary circuit, while temperature compensation, magnetic-field immunity, and integrated isolation help maintain stable measurement performance. They have therefore become essential components for vehicle power control, battery safety, and energy-efficiency management.

From a regional perspective, Europe, North America, and Japan have established strong capabilities in automotive-grade analog semiconductors, magnetic sensing, functional safety, and reliability validation. Leading international suppliers retain competitive advantages in high-performance automotive applications through mature product platforms, extensive vehicle qualification experience, and global supply networks. Supported by the rapid expansion of its electric vehicle, battery, electric-drive, and charging infrastructure industries, China has become an important market for demand growth and supply-chain localization. Chinese manufacturers are gradually moving beyond general-purpose products toward high-accuracy, high-bandwidth, high-isolation, automotive-grade sensor ICs and modules.

Looking ahead, rising electric vehicle adoption, wider deployment of 800 V architectures, increasing automotive electronic content, and greater integration of traction and battery systems will continue to expand both the number of current-sensing points and the performance required from each device. The high switching frequencies and rapid current transients associated with silicon carbide and gallium nitride power semiconductors will drive automotive Hall-based current sensors toward greater bandwidth, lower latency, stronger interference immunity, and higher insulation capability. These trends will also encourage further integration of Hall sensing ICs, copper conductors, isolation structures, and diagnostic functions. As product performance improves and larger production volumes reduce total system cost, automotive Hall-based current sensors are expected to expand beyond core high-voltage electric vehicle systems into thermal management, electronic braking, electric power steering, low-voltage power management, and intelligent actuator systems, creating a broader and more resilient foundation for long-term market growth.

This report studies the global Electric Vehicle Hall Current Sensors production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Electric Vehicle Hall Current Sensors 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 Electric Vehicle Hall Current Sensors that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Electric Vehicle Hall Current Sensors total production and demand, 2021-2032, (Million Units)

Global Electric Vehicle Hall Current Sensors total production value, 2021-2032, (USD Million)

Global Electric Vehicle Hall Current Sensors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Electric Vehicle Hall Current Sensors consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Electric Vehicle Hall Current Sensors domestic production, consumption, key domestic manufacturers and share

Global Electric Vehicle Hall Current Sensors production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Electric Vehicle Hall Current Sensors production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Electric Vehicle Hall Current Sensors production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Electric Vehicle Hall Current Sensors 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 Allegro, Melexis, TDK, LEM Holding, Infineon, Asahi Kasei Microdevices, Texas Instruments, TAMURA Corporation, Honeywell, Monolithic Power Systems, 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 Electric Vehicle Hall Current Sensors market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million 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 Electric Vehicle Hall Current Sensors Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Electric Vehicle Hall Current Sensors Market, Segmentation by Type:

Open-loop

Closed-loop

Global Electric Vehicle Hall Current Sensors Market, Segmentation by Rated Current Range:

Current: Below 20A

20A ? Current

100A ? Current

500A ? Current

Current: Above 2000A

Global Electric Vehicle Hall Current Sensors Market, Segmentation by Accuracy:

1.0% FS Above

0.5%?1.0% FS

0.5% FS Below

Global Electric Vehicle Hall Current Sensors Market, Segmentation by Application:

BEV

HEVs

PHEVs

Companies Profiled:

Allegro

Melexis

TDK

LEM Holding

Infineon

Asahi Kasei Microdevices

Texas Instruments

TAMURA Corporation

Honeywell

Monolithic Power Systems

Shenzhen Aihuadi Technology

Zhuhai CHIPSENSE Electronic Technology

Suzhou Novosense Microelectronics

Shanghai canrui Technology

Semiment Technology

Cosemitech (Shanghai)

Nanjing Zhongxu Electronics Science & Technology

Innosense Electronics

Sinomags

Magtron

Key Questions Answered:

1. How big is the global Electric Vehicle Hall Current Sensors market?
2. What is the demand of the global Electric Vehicle Hall Current Sensors market?
3. What is the year over year growth of the global Electric Vehicle Hall Current Sensors market?
4. What is the production and production value of the global Electric Vehicle Hall Current Sensors market?
5. Who are the key producers in the global Electric Vehicle Hall Current Sensors market?

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

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