

Global EV Battery Leak Detection Sensor Market Growth 2026-2032

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Abstracts

The global EV Battery Leak Detection Sensor market size is predicted to grow from US\$ 63.59 million in 2025 to US\$ 129 million in 2032; it is expected to grow at a CAGR of 10.9% from 2026 to 2032.

The EV Battery Leak Detection Sensor is an automotive-grade sensing device specifically designed for monitoring the safety condition of electric vehicle battery systems. It detects characteristic signals such as electrolyte solvent vapors, coolant vapors, or hydrogen released from battery cells or packs under abnormal conditions, allowing for early identification of potential leakage risks. This sensor offers high sensitivity, excellent repeatability, and traceability, enabling early detection of defective cells and reducing the risk of thermal runaway and safety incidents. In 2025, production of EV Battery Leak Detection Sensors reached 50,000 units, with an average price of USD 1,300 per unit. In 2025, the industry's capacity utilization rate was approximately 50%, and the average gross margin was around 40%. The industry chain spans upstream, midstream, and downstream segments: upstream primarily includes suppliers of core sensor components, sensitive materials, and circuit chips, with representative suppliers such as Honeywell, Bosch, and Texas Instruments; the midstream focuses on sensor design, manufacturing, and integrated testing, with an emphasis on detection accuracy, stability, and reliability; downstream applications are concentrated in electric vehicle traction battery systems, where these sensors monitor real-time electrolyte leakage, improving vehicle safety, durability, and the operational reliability of new energy vehicles. Representative downstream customers include Tesla, BYD, and NIO.

The EV Battery Leak Detection Sensor plays a crucial role in enhancing the safety and reliability of electric vehicles, particularly in the rapidly expanding new energy vehicle sector. As battery technology continues to evolve, the risk of leaks and thermal runaway

remains a key concern. This sensor addresses that need by offering proactive monitoring, which improves overall vehicle durability and safety. With stricter safety regulations and growing consumer awareness around battery health, the demand for such sensors is expected to increase. Adoption will also be driven by automakers' focus on ensuring long-term vehicle performance and consumer trust in electric mobility.

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

This Insight Report provides a comprehensive analysis of the global EV Battery Leak Detection Sensor 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 EV Battery Leak Detection Sensor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global EV Battery Leak Detection Sensor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for EV Battery Leak Detection Sensor 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 EV Battery Leak Detection Sensor.

This report presents a comprehensive overview, market shares, and growth opportunities of EV Battery Leak Detection Sensor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Handheld

Benchtop

Others

Segmentation by Sensing:

Conductivity-Based Sensor

Resistive Leakage Sensor

Others

Segmentation by Output Signal:

Analog Voltage Output

Digital Switch Output

Others

Segmentation by Application:

Passenger Cars

Commercial Vehicle

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.

Amphenol Sensors

SGX Sensortech

Fuji Bridex

Yamaha Fine Technologies

Keyitec

INFICON

Cincinnati Test Systems

Restek

REDLINE

Key Questions Addressed in this Report

What is the 10-year outlook for the global EV Battery Leak Detection Sensor market?

What factors are driving EV Battery Leak Detection Sensor market growth, globally and by region?

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

How do EV Battery Leak Detection Sensor market opportunities vary by end market size?

How does EV Battery Leak Detection Sensor break out by Type, by Application?

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