

Global Helium Leak Detector for Power Battery Market Growth 2026-2032

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Abstracts

The global Helium Leak Detector for Power Battery market size is predicted to grow from US\$ 60.46 million in 2025 to US\$ 97 million in 2032; it is expected to grow at a CAGR of 7.1% from 2026 to 2032.

A helium leak detector for power battery is a precision testing instrument used to detect micro-leaks in EV power battery cells, modules, packs, covers, weld seams, safety valves, cooling plates, and sealing structures by using helium as a tracer gas. It is mainly applied to lithium-ion power batteries, including prismatic, cylindrical, pouch, and blade-type cells. Power battery sealing quality is critical because leakage may cause electrolyte loss, moisture ingress, corrosion, capacity degradation, swelling, or safety risks. Helium leak detection is widely used in cell production, laser welding inspection, module assembly, pack sealing, and end-of-line quality control.

Global production capacity is approximately 8 thousand units.

In 2025, global sales reached approximately 3 thousand units, with an average price of around KUS\$ 20.6 per unit, gross margin around 48%.

The helium leak detectors for power batteries represent a high-growth application within the leak detection equipment market. Their demand is strongly supported by EV production expansion, battery safety standards, and the need for reliable, traceable quality control. Compared with pressure decay or visual inspection methods, helium leak detection offers higher sensitivity and better ability to identify micro-leaks in cells and battery components. Although helium cost, equipment investment, and system integration complexity remain challenges, the technology remains important for high-end power battery manufacturing. Future growth will focus on faster testing, lower

helium consumption, automation, helium recovery, and integration with smart battery production lines.

Market Trend

The power battery helium leak detector market is developing toward automation, high-speed testing, dry-pump systems, helium recovery, and production-line integration. Battery manufacturers increasingly require customized leak detection systems for different cell formats, large battery packs, cooling plates, and thermal management components. Demand is rising for vacuum chamber testing, accumulation testing, automatic loading and unloading, robotic handling, data traceability, and MES connection. As EV battery factories expand, leak detection equipment is shifting from standalone instruments to complete automated testing stations. Future products will emphasize faster cycle time, stable sensitivity, lower helium consumption, clean operation, and flexible compatibility with multiple battery designs.

Market Drive

The main drivers of helium leak detectors for power batteries are the rapid growth of electric vehicles, stricter battery safety requirements, and increasing demand for high-reliability sealing inspection. Power batteries operate under complex thermal, vibration, and charging conditions, so small leaks may lead to moisture ingress, electrolyte leakage, internal corrosion, reduced service life, or thermal safety risks. Higher energy density battery designs also raise the importance of precise leak testing. In addition, large-scale battery production requires fast, repeatable, and traceable quality inspection. This supports demand for automated helium leak detection systems in cell manufacturing, module assembly, and battery pack production.

Upstream and Downstream

The upstream supply chain includes helium mass spectrometer modules, dry vacuum pumps, turbomolecular pumps, valves, pressure gauges, helium sensors, vacuum chambers, sealing fixtures, automation modules, PLC systems, robotic handling systems, software, hoses, fittings, and helium gas suppliers. Key upstream companies include vacuum equipment suppliers, sensor manufacturers, precision machining firms, automation equipment providers, and industrial gas companies. Downstream customers mainly include power battery cell manufacturers, EV battery pack producers, automotive OEMs, energy storage companies, battery equipment integrators, cooling plate manufacturers, and R&D laboratories. These users apply helium leak detectors for cell

sealing inspection, weld quality validation, pack airtightness testing, and failure analysis.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Helium Leak Detector for Power Battery 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 Helium Leak Detector for Power Battery.

This report presents a comprehensive overview, market shares, and growth opportunities of Helium Leak Detector for Power Battery market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Benchtop

Mobile

Segmentation by Tested Object:

Cell Detect

Battery Pack Detect

Segmentation by Degree of Automation:

Fully Automatic

Semi-automatic

Segmentation by Application:

Prismatic Cell

Cylindrical Cell

Others

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.

INFICON (Switzerland)

Marposs (Italy)

Agilent Technologies (USA)

Pfeiffer Vacuum (Germany)

Leybold (Germany)

ULVAC (Japan)

Anhui Wanyi Science and Technology (China)

Yamaha Fine Technologies (Japan)

Shenzhen Utimes Intelligent Equipment (China)

Anhui Nuoyi (NOY) Technology (China)

Key Questions Addressed in this Report

What is the 10-year outlook for the global Helium Leak Detector for Power Battery market?

What factors are driving Helium Leak Detector for Power Battery market growth, globally and by region?

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

How do Helium Leak Detector for Power Battery market opportunities vary by end market size?

How does Helium Leak Detector for Power Battery break out by Type, by Application?

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