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Global EV High-Voltage Gate Driver ICs Market Growth 2026-2032

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Abstracts

The global EV High-Voltage Gate Driver ICs market size is predicted to grow from US$ 347 million in 2025 to US$ 539 million in 2032; it is expected to grow at a CAGR of 6.5% from 2026 to 2032.

EV High-Voltage Gate Driver ICs are specialized automotive integrated circuits designed to manage high-voltage power transistors in electric vehicles, providing fast, precise gate control with integrated protection to ensure safe and efficient switching under demanding operating conditions. Their advantages include enhanced voltage tolerance, low power loss, high integration, and improved reliability for high-voltage automotive systems. The capacity utilization rate in 2025 was 82%, and the industry?s average gross margin was about 45%. In 2025, production was 222 million units and the average price was USD 1.6 per unit. Upstream, key inputs include silicon wafers and photoresist materials, with representative suppliers such as Shin-Etsu Chemical, SUMCO, GlobalWafers, and Ibiden. The midstream segment focuses on IC architecture design, gate drive circuit integration, layout optimization, packaging, and automotive-grade testing. Downstream applications target passenger and commercial electric vehicles, with key customers including Tesla, BYD, Volkswagen, General Motors, SAIC Motor, and NIO.

EV High-Voltage Gate Driver ICs play a critical role in the control and protection of high-voltage power modules in electric vehicles, directly influencing efficiency, safety, and system responsiveness. Increasing adoption of high-voltage architectures and compact inverter designs emphasizes the need for reliable, low-loss, and highly integrated driver ICs. Their performance in harsh automotive environments, including thermal and electrical stress, determines the operational stability of battery and powertrain systems. As vehicle electrification accelerates and power density requirements grow, the demand

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for high-quality gate drivers is shaped more by technical reliability and system compatibility than simple volume growth, highlighting the importance of precision design and supplier expertise.

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

This Insight Report provides a comprehensive analysis of the global EV High-Voltage Gate Driver ICs 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 High-Voltage Gate Driver ICs portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global EV High-Voltage Gate Driver ICs market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for EV High-Voltage Gate Driver ICs 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 High-Voltage Gate Driver ICs.

This report presents a comprehensive overview, market shares, and growth opportunities of EV High-Voltage Gate Driver ICs market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

High-Side Driver

Low-Side Driver

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Segmentation by Isolation Type:

- Non-isolated
- Isolated

Segmentation by Package:

- SOIC Package
- TSSOP Package
- Others

Segmentation by Application:

- Passenger Cars
- Commercial Vehicle

This report also splits the market by region:

- Americas
  - United States
  - Canada
  - Mexico
  - Brazil
- APAC
  - China

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- 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.

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STMicroelectronics

Infineon

Rohm Semiconductor

ON Semiconductor

Microchip Technology

Renesas Electronics

NXP Semiconductors

Power Integrations

Skyworks

Analog Devices

Power Integrations

IXYS

Diodes

Key Questions Addressed in this Report

What is the 10-year outlook for the global EV High-Voltage Gate Driver ICs market?

What factors are driving EV High-Voltage Gate Driver ICs market growth, globally and by region?

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

How do EV High-Voltage Gate Driver ICs market opportunities vary by end market size?

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How does EV High-Voltage Gate Driver ICs break out by Type, by Application?

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