

Global High-Voltage LED Chips Market Growth 2026-2032

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Abstracts

The global High-Voltage LED Chips market size is predicted to grow from US\$ 61.79 million in 2025 to US\$ 91.01 million in 2032; it is expected to grow at a CAGR of 5.5% from 2026 to 2032.

In 2025, the global production of high-voltage LED chips reached 253 million units, with an average selling price of 0.25 USD per unit. The global annual production capacity for high-voltage LED chips is approximately 350 million units, with a gross margin of about 22.7%. High-voltage LED chips (HV LEDs) are light-emitting devices based on micro-cell series integration technology, enabling high-voltage, low-current driving on a single chip. This technology integrates multiple micro-LED cells (units) in series at the wafer level, forming driving characteristics suitable for operating voltages of 20~100V, which is significantly different from conventional low-voltage LED (3~4V) solutions, offering clear advantages in system efficiency, thermal management, and overall cost. The manufacturing process primarily involves performing high-precision trench etching (depth approximately 4~8μm) on a unified substrate such as sapphire to form mutually isolated light-emitting units. These units are then interconnected via metal wires, ultimately forming an integrated chip that operates at high voltage and low current (e.g., 50V/20mA). Key technologies include high-aspect-ratio trench etching processes, high-quality insulation layer deposition (to prevent short circuits between units), and planarization of the interconnect metal layer (to ensure connection reliability and chip stability). In the current market, high-voltage LED chips, due to their ability to significantly simplify circuit design, reduce driver power supply costs, and improve system reliability, have been widely adopted in fields such as liquid crystal display backlighting, smart lighting, and automotive optoelectronic devices, making them one of the mainstream solutions for medium- to high-power lighting applications. The upstream supply chain for high-voltage LED chips includes substrate materials, MOCVD

equipment, and specialty gases, while the downstream includes LED packaging and other LED application markets.

Currently, the market for high-voltage LED chips is in a critical development phase characterized by deepening technological penetration and expanding application scenarios. As a novel light-emitting device based on micro-cell series integration technology, high-voltage LED chips, with their high-voltage, low-current driving characteristics, offer significant advantages in system efficiency, thermal management optimization, and driver power supply cost control, making them one of the mainstream technological routes in medium- to high-power lighting and display backlighting applications. As downstream markets continue to demand smarter, more compact, and more reliable lighting solutions, the penetration of high-voltage LED chips is steadily expanding in application scenarios such as smart lighting, LCD backlighting, and automotive optoelectronic devices. Concurrently, the industry as a whole is evolving toward higher integration levels, better thermal management performance, and improved cost-effectiveness, with manufacturing process optimization for high-voltage chips and the development of new application scenarios becoming key focal points of market competition.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for High-Voltage LED Chips 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 High-Voltage LED Chips.

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

Segmentation by Type:

Upright Structure

Inverted Structure

Vertical Structure

Segmentation by Structure:

Integrated

Discrete Package

Segmentation by Power:

0.5-1W

1-5W

>5W

Segmentation by Application:

Bulbs

LED Tubes

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.

EPILEDs

Genesis Photonics

Seoul Semiconductor

Aucksun

Huanyu Dream Technology

HC Semitek

Aqualite

CHANGELIGHT

Focus Lightings Tech

HGC

Cree LED

Key Questions Addressed in this Report

What is the 10-year outlook for the global High-Voltage LED Chips market?

What factors are driving High-Voltage LED Chips market growth, globally and by region?

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

How do High-Voltage LED Chips market opportunities vary by end market size?

How does High-Voltage LED Chips break out by Type, by Application?

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