

Global High-Voltage LED Chips Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G24712CA8C73EN.html>

Date: July 2026

Pages: 109

Price: US\$ 3,480.00 (Single User License)

ID: G24712CA8C73EN

Abstracts

According to our (Global Info Research) latest study, the global High-Voltage LED Chips market size was valued at US\$ 64.99 million in 2025 and is forecast to a readjusted size of US\$ 93.97 million by 2032 with a CAGR of 5.2% during review period.

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.

This report is a detailed and comprehensive analysis for global High-Voltage LED Chips market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global High-Voltage LED Chips market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global High-Voltage LED Chips market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2021-2032

Global High-Voltage LED Chips market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices

(US\$/Pcs), 2021-2032

Global High-Voltage LED Chips market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pcs), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for High-Voltage LED Chips

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global High-Voltage LED Chips market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include EPILEDs, Genesis Photonics, Seoul Semiconductor, Aucksun, Huanyu Dream Technology, HC Semitek, Aqualite, CHANGELIGHT, Focus Lightings Tech, HGC, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

High-Voltage LED Chips market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Upright Structure

Inverted Structure

Vertical Structure

Market segment by Structure

Integrated

Discrete Package

Market segment by Power

0.5-1W

1-5W

>5W

Market segment by Application

Bulbs

LED Tubes

Others

Major players covered

EPILDS

Genesis Photonics

Seoul Semiconductor

Aucksun

Huanyu Dream Technology

HC Semitek

Aqualite

CHANGELIGHT

Focus Lightings Tech

HGC

Cree LED

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe High-Voltage LED Chips product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of High-Voltage LED Chips, with price, sales quantity, revenue, and global market share of High-Voltage LED Chips from 2021 to 2026.

Chapter 3, the High-Voltage LED Chips competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed

emphatically by landscape contrast.

Chapter 4, the High-Voltage LED Chips breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and High-Voltage LED Chips market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of High-Voltage LED Chips.

Chapter 14 and 15, to describe High-Voltage LED Chips sales channel, distributors, customers, research findings and conclusion.

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