

Global High-Voltage LED Chips Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global High-Voltage LED Chips market size is expected to reach \$ 93.97 million by 2032, rising at a market growth of 5.2% CAGR during the forecast period (2026-2032).

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.

This report studies the global High-Voltage LED Chips production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High-Voltage LED Chips and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of High-Voltage LED Chips that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High-Voltage LED Chips total production and demand, 2021-2032, (K Pcs)

Global High-Voltage LED Chips total production value, 2021-2032, (USD Million)

Global High-Voltage LED Chips production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global High-Voltage LED Chips consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: High-Voltage LED Chips domestic production, consumption, key domestic manufacturers and share

Global High-Voltage LED Chips production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global High-Voltage LED Chips production by Type, production, value, CAGR,

2021-2032, (USD Million) & (K Pcs)

Global High-Voltage LED Chips production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global High-Voltage LED Chips market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World High-Voltage LED Chips market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pcs) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global High-Voltage LED Chips Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High-Voltage LED Chips Market, Segmentation by Type:

Upright Structure

Inverted Structure

Vertical Structure

Global High-Voltage LED Chips Market, Segmentation by Structure:

Integrated

Discrete Package

Global High-Voltage LED Chips Market, Segmentation by Power:

0.5-1W

1-5W

?5W

Global High-Voltage LED Chips Market, Segmentation by Application:

Bulbs

LED Tubes

Others

Companies Profiled:

EPILEDs

Genesis Photonics

Seoul Semiconductor

Aucksun

Huanyu Dream Technology

HC Semitek

Aqualite

CHANGELIGHT

Focus Lightings Tech

HGC

Cree LED

Key Questions Answered:

1. How big is the global High-Voltage LED Chips market?
2. What is the demand of the global High-Voltage LED Chips market?
3. What is the year over year growth of the global High-Voltage LED Chips market?
4. What is the production and production value of the global High-Voltage LED Chips market?
5. Who are the key producers in the global High-Voltage LED Chips market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 High-Voltage LED Chips Introduction
- 1.2 World High-Voltage LED Chips Supply & Forecast
 - 1.2.1 World High-Voltage LED Chips Production Value (2021 & 2025 & 2032)
 - 1.2.2 World High-Voltage LED Chips Production (2021-2032)
 - 1.2.3 World High-Voltage LED Chips Pricing Trends (2021-2032)
- 1.3 World High-Voltage LED Chips Production by Region (Based on Production Site)
 - 1.3.1 World High-Voltage LED Chips Production Value by Region (2021-2032)
 - 1.3.2 World High-Voltage LED Chips Production by Region (2021-2032)
 - 1.3.3 World High-Voltage LED Chips Average Price by Region (2021-2032)
 - 1.3.4 North America High-Voltage LED Chips Production (2021-2032)
 - 1.3.5 Europe High-Voltage LED Chips Production (2021-2032)
 - 1.3.6 China High-Voltage LED Chips Production (2021-2032)
 - 1.3.7 Japan High-Voltage LED Chips Production (2021-2032)
 - 1.3.8 South Korea High-Voltage LED Chips Production (2021-2032)
 - 1.3.9 Southeast Asia High-Voltage LED Chips Production (2021-2032)
 - 1.3.10 China Taiwan High-Voltage LED Chips Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 High-Voltage LED Chips Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 High-Voltage LED Chips Major Market Trends

2 DEMAND SUMMARY

- 2.1 World High-Voltage LED Chips Demand (2021-2032)
- 2.2 World High-Voltage LED Chips Consumption by Region
 - 2.2.1 World High-Voltage LED Chips Consumption by Region (2021-2026)
 - 2.2.2 World High-Voltage LED Chips Consumption Forecast by Region (2027-2032)
- 2.3 United States High-Voltage LED Chips Consumption (2021-2032)
- 2.4 China High-Voltage LED Chips Consumption (2021-2032)
- 2.5 Europe High-Voltage LED Chips Consumption (2021-2032)
- 2.6 Japan High-Voltage LED Chips Consumption (2021-2032)
- 2.7 South Korea High-Voltage LED Chips Consumption (2021-2032)
- 2.8 ASEAN High-Voltage LED Chips Consumption (2021-2032)
- 2.9 India High-Voltage LED Chips Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World High-Voltage LED Chips Production Value by Manufacturer (2021-2026)
- 3.2 World High-Voltage LED Chips Production by Manufacturer (2021-2026)
- 3.3 World High-Voltage LED Chips Average Price by Manufacturer (2021-2026)
- 3.4 High-Voltage LED Chips Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global High-Voltage LED Chips Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for High-Voltage LED Chips in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for High-Voltage LED Chips in 2025
- 3.6 High-Voltage LED Chips Market: Overall Company Footprint Analysis
 - 3.6.1 High-Voltage LED Chips Market: Region Footprint
 - 3.6.2 High-Voltage LED Chips Market: Company Product Type Footprint
 - 3.6.3 High-Voltage LED Chips Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: High-Voltage LED Chips Production Value Comparison
 - 4.1.1 United States VS China: High-Voltage LED Chips Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: High-Voltage LED Chips Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: High-Voltage LED Chips Production Comparison
 - 4.2.1 United States VS China: High-Voltage LED Chips Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: High-Voltage LED Chips Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: High-Voltage LED Chips Consumption Comparison
 - 4.3.1 United States VS China: High-Voltage LED Chips Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: High-Voltage LED Chips Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based High-Voltage LED Chips Manufacturers and Market Share,

2021-2026

4.4.1 United States Based High-Voltage LED Chips Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers High-Voltage LED Chips Production Value (2021-2026)

4.4.3 United States Based Manufacturers High-Voltage LED Chips Production (2021-2026)

4.5 China Based High-Voltage LED Chips Manufacturers and Market Share

4.5.1 China Based High-Voltage LED Chips Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers High-Voltage LED Chips Production Value (2021-2026)

4.5.3 China Based Manufacturers High-Voltage LED Chips Production (2021-2026)

4.6 Rest of World Based High-Voltage LED Chips Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based High-Voltage LED Chips Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers High-Voltage LED Chips Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers High-Voltage LED Chips Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World High-Voltage LED Chips Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Upright Structure

5.2.2 Inverted Structure

5.2.3 Vertical Structure

5.3 Market Segment by Type

5.3.1 World High-Voltage LED Chips Production by Type (2021-2032)

5.3.2 World High-Voltage LED Chips Production Value by Type (2021-2032)

5.3.3 World High-Voltage LED Chips Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY STRUCTURE

6.1 World High-Voltage LED Chips Market Size Overview by Structure: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Structure

6.2.1 Integrated

6.2.2 Discrete Package

6.3 Market Segment by Structure

6.3.1 World High-Voltage LED Chips Production by Structure (2021-2032)

6.3.2 World High-Voltage LED Chips Production Value by Structure (2021-2032)

6.3.3 World High-Voltage LED Chips Average Price by Structure (2021-2032)

7 MARKET ANALYSIS BY POWER

7.1 World High-Voltage LED Chips Market Size Overview by Power: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Power

7.2.1 0.5-1W

7.2.2 1-5W

7.2.3 ?5W

7.3 Market Segment by Power

7.3.1 World High-Voltage LED Chips Production by Power (2021-2032)

7.3.2 World High-Voltage LED Chips Production Value by Power (2021-2032)

7.3.3 World High-Voltage LED Chips Average Price by Power (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World High-Voltage LED Chips Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Bulbs

8.2.2 LED Tubes

8.2.3 Others

8.3 Market Segment by Application

8.3.1 World High-Voltage LED Chips Production by Application (2021-2032)

8.3.2 World High-Voltage LED Chips Production Value by Application (2021-2032)

8.3.3 World High-Voltage LED Chips Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 EPILEDS

9.1.1 EPILEDS Details

9.1.2 EPILEDS Major Business

- 9.1.3 EPILEDs High-Voltage LED Chips Product and Services
- 9.1.4 EPILEDs High-Voltage LED Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 EPILEDs Recent Developments/Updates
- 9.1.6 EPILEDs Competitive Strengths & Weaknesses
- 9.2 Genesis Photonics
 - 9.2.1 Genesis Photonics Details
 - 9.2.2 Genesis Photonics Major Business
 - 9.2.3 Genesis Photonics High-Voltage LED Chips Product and Services
 - 9.2.4 Genesis Photonics High-Voltage LED Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 Genesis Photonics Recent Developments/Updates
 - 9.2.6 Genesis Photonics Competitive Strengths & Weaknesses
- 9.3 Seoul Semiconductor
 - 9.3.1 Seoul Semiconductor Details
 - 9.3.2 Seoul Semiconductor Major Business
 - 9.3.3 Seoul Semiconductor High-Voltage LED Chips Product and Services
 - 9.3.4 Seoul Semiconductor High-Voltage LED Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Seoul Semiconductor Recent Developments/Updates
 - 9.3.6 Seoul Semiconductor Competitive Strengths & Weaknesses
- 9.4 Aucksun
 - 9.4.1 Aucksun Details
 - 9.4.2 Aucksun Major Business
 - 9.4.3 Aucksun High-Voltage LED Chips Product and Services
 - 9.4.4 Aucksun High-Voltage LED Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Aucksun Recent Developments/Updates
 - 9.4.6 Aucksun Competitive Strengths & Weaknesses
- 9.5 Huanyu Dream Technology
 - 9.5.1 Huanyu Dream Technology Details
 - 9.5.2 Huanyu Dream Technology Major Business
 - 9.5.3 Huanyu Dream Technology High-Voltage LED Chips Product and Services
 - 9.5.4 Huanyu Dream Technology High-Voltage LED Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Huanyu Dream Technology Recent Developments/Updates
 - 9.5.6 Huanyu Dream Technology Competitive Strengths & Weaknesses
- 9.6 HC Semitek
 - 9.6.1 HC Semitek Details

- 9.6.2 HC Semitek Major Business
- 9.6.3 HC Semitek High-Voltage LED Chips Product and Services
- 9.6.4 HC Semitek High-Voltage LED Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 HC Semitek Recent Developments/Updates
- 9.6.6 HC Semitek Competitive Strengths & Weaknesses
- 9.7 Aqualite
 - 9.7.1 Aqualite Details
 - 9.7.2 Aqualite Major Business
 - 9.7.3 Aqualite High-Voltage LED Chips Product and Services
 - 9.7.4 Aqualite High-Voltage LED Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Aqualite Recent Developments/Updates
 - 9.7.6 Aqualite Competitive Strengths & Weaknesses
- 9.8 CHANGELIGHT
 - 9.8.1 CHANGELIGHT Details
 - 9.8.2 CHANGELIGHT Major Business
 - 9.8.3 CHANGELIGHT High-Voltage LED Chips Product and Services
 - 9.8.4 CHANGELIGHT High-Voltage LED Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 CHANGELIGHT Recent Developments/Updates
 - 9.8.6 CHANGELIGHT Competitive Strengths & Weaknesses
- 9.9 Focus Lightings Tech
 - 9.9.1 Focus Lightings Tech Details
 - 9.9.2 Focus Lightings Tech Major Business
 - 9.9.3 Focus Lightings Tech High-Voltage LED Chips Product and Services
 - 9.9.4 Focus Lightings Tech High-Voltage LED Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Focus Lightings Tech Recent Developments/Updates
 - 9.9.6 Focus Lightings Tech Competitive Strengths & Weaknesses
- 9.10 HGC
 - 9.10.1 HGC Details
 - 9.10.2 HGC Major Business
 - 9.10.3 HGC High-Voltage LED Chips Product and Services
 - 9.10.4 HGC High-Voltage LED Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 HGC Recent Developments/Updates
 - 9.10.6 HGC Competitive Strengths & Weaknesses
- 9.11 Cree LED

- 9.11.1 Cree LED Details
- 9.11.2 Cree LED Major Business
- 9.11.3 Cree LED High-Voltage LED Chips Product and Services
- 9.11.4 Cree LED High-Voltage LED Chips Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.11.5 Cree LED Recent Developments/Updates
- 9.11.6 Cree LED Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 High-Voltage LED Chips Industry Chain
- 10.2 High-Voltage LED Chips Upstream Analysis
 - 10.2.1 High-Voltage LED Chips Core Raw Materials
 - 10.2.2 Main Manufacturers of High-Voltage LED Chips Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 High-Voltage LED Chips Production Mode
- 10.6 High-Voltage LED Chips Procurement Model
- 10.7 High-Voltage LED Chips Industry Sales Model and Sales Channels
 - 10.7.1 High-Voltage LED Chips Sales Model
 - 10.7.2 High-Voltage LED Chips Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World High-Voltage LED Chips Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World High-Voltage LED Chips Production Value by Region (2021-2026) & (USD Million)

Table 3. World High-Voltage LED Chips Production Value by Region (2027-2032) & (USD Million)

Table 4. World High-Voltage LED Chips Production Value Market Share by Region (2021-2026)

Table 5. World High-Voltage LED Chips Production Value Market Share by Region (2027-2032)

Table 6. World High-Voltage LED Chips Production by Region (2021-2026) & (K Pcs)

Table 7. World High-Voltage LED Chips Production by Region (2027-2032) & (K Pcs)

Table 8. World High-Voltage LED Chips Production Market Share by Region (2021-2026)

Table 9. World High-Voltage LED Chips Production Market Share by Region (2027-2032)

Table 10. World High-Voltage LED Chips Average Price by Region (2021-2026) & (US\$/Pcs)

Table 11. World High-Voltage LED Chips Average Price by Region (2027-2032) & (US\$/Pcs)

Table 12. High-Voltage LED Chips Major Market Trends

Table 13. World High-Voltage LED Chips Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Pcs)

Table 14. World High-Voltage LED Chips Consumption by Region (2021-2026) & (K Pcs)

Table 15. World High-Voltage LED Chips Consumption Forecast by Region (2027-2032) & (K Pcs)

Table 16. World High-Voltage LED Chips Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key High-Voltage LED Chips Producers in 2025

Table 18. World High-Voltage LED Chips Production by Manufacturer (2021-2026) & (K Pcs)

Table 19. Production Market Share of Key High-Voltage LED Chips Producers in 2025

Table 20. World High-Voltage LED Chips Average Price by Manufacturer (2021-2026) &

(US\$/Pcs)

Table 21. Global High-Voltage LED Chips Company Evaluation Quadrant

Table 22. World High-Voltage LED Chips Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and High-Voltage LED Chips Production Site of Key Manufacturer

Table 24. High-Voltage LED Chips Market: Company Product Type Footprint

Table 25. High-Voltage LED Chips Market: Company Product Application Footprint

Table 26. High-Voltage LED Chips Competitive Factors

Table 27. High-Voltage LED Chips New Entrant and Capacity Expansion Plans

Table 28. High-Voltage LED Chips Mergers & Acquisitions Activity

Table 29. United States VS China High-Voltage LED Chips Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China High-Voltage LED Chips Production Comparison, (2021 & 2025 & 2032) & (K Pcs)

Table 31. United States VS China High-Voltage LED Chips Consumption Comparison, (2021 & 2025 & 2032) & (K Pcs)

Table 32. United States Based High-Voltage LED Chips Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers High-Voltage LED Chips Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers High-Voltage LED Chips Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers High-Voltage LED Chips Production (2021-2026) & (K Pcs)

Table 36. United States Based Manufacturers High-Voltage LED Chips Production Market Share (2021-2026)

Table 37. China Based High-Voltage LED Chips Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers High-Voltage LED Chips Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers High-Voltage LED Chips Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers High-Voltage LED Chips Production, (2021-2026) & (K Pcs)

Table 41. China Based Manufacturers High-Voltage LED Chips Production Market Share (2021-2026)

Table 42. Rest of World Based High-Voltage LED Chips Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers High-Voltage LED Chips Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers High-Voltage LED Chips Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers High-Voltage LED Chips Production, (2021-2026) & (K Pcs)

Table 46. Rest of World Based Manufacturers High-Voltage LED Chips Production Market Share (2021-2026)

Table 47. World High-Voltage LED Chips Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World High-Voltage LED Chips Production by Type (2021-2026) & (K Pcs)

Table 49. World High-Voltage LED Chips Production by Type (2027-2032) & (K Pcs)

Table 50. World High-Voltage LED Chips Production Value by Type (2021-2026) & (USD Million)

Table 51. World High-Voltage LED Chips Production Value by Type (2027-2032) & (USD Million)

Table 52. World High-Voltage LED Chips Average Price by Type (2021-2026) & (US\$/Pcs)

Table 53. World High-Voltage LED Chips Average Price by Type (2027-2032) & (US\$/Pcs)

Table 54. World High-Voltage LED Chips Production Value by Structure, (USD Million), 2021 & 2025 & 2032

Table 55. World High-Voltage LED Chips Production by Structure (2021-2026) & (K Pcs)

Table 56. World High-Voltage LED Chips Production by Structure (2027-2032) & (K Pcs)

Table 57. World High-Voltage LED Chips Production Value by Structure (2021-2026) & (USD Million)

Table 58. World High-Voltage LED Chips Production Value by Structure (2027-2032) & (USD Million)

Table 59. World High-Voltage LED Chips Average Price by Structure (2021-2026) & (US\$/Pcs)

Table 60. World High-Voltage LED Chips Average Price by Structure (2027-2032) & (US\$/Pcs)

Table 61. World High-Voltage LED Chips Production Value by Power, (USD Million), 2021 & 2025 & 2032

Table 62. World High-Voltage LED Chips Production by Power (2021-2026) & (K Pcs)

Table 63. World High-Voltage LED Chips Production by Power (2027-2032) & (K Pcs)

Table 64. World High-Voltage LED Chips Production Value by Power (2021-2026) &

(USD Million)

Table 65. World High-Voltage LED Chips Production Value by Power (2027-2032) & (USD Million)

Table 66. World High-Voltage LED Chips Average Price by Power (2021-2026) & (US\$/Pcs)

Table 67. World High-Voltage LED Chips Average Price by Power (2027-2032) & (US\$/Pcs)

Table 68. World High-Voltage LED Chips Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World High-Voltage LED Chips Production by Application (2021-2026) & (K Pcs)

Table 70. World High-Voltage LED Chips Production by Application (2027-2032) & (K Pcs)

Table 71. World High-Voltage LED Chips Production Value by Application (2021-2026) & (USD Million)

Table 72. World High-Voltage LED Chips Production Value by Application (2027-2032) & (USD Million)

Table 73. World High-Voltage LED Chips Average Price by Application (2021-2026) & (US\$/Pcs)

Table 74. World High-Voltage LED Chips Average Price by Application (2027-2032) & (US\$/Pcs)

Table 75. EPILEDs Basic Information, Manufacturing Base and Competitors

Table 76. EPILEDs Major Business

Table 77. EPILEDs High-Voltage LED Chips Product and Services

Table 78. EPILEDs High-Voltage LED Chips Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. EPILEDs Recent Developments/Updates

Table 80. EPILEDs Competitive Strengths & Weaknesses

Table 81. Genesis Photonics Basic Information, Manufacturing Base and Competitors

Table 82. Genesis Photonics Major Business

Table 83. Genesis Photonics High-Voltage LED Chips Product and Services

Table 84. Genesis Photonics High-Voltage LED Chips Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Genesis Photonics Recent Developments/Updates

Table 86. Genesis Photonics Competitive Strengths & Weaknesses

Table 87. Seoul Semiconductor Basic Information, Manufacturing Base and Competitors

Table 88. Seoul Semiconductor Major Business

Table 89. Seoul Semiconductor High-Voltage LED Chips Product and Services

Table 90. Seoul Semiconductor High-Voltage LED Chips Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Seoul Semiconductor Recent Developments/Updates

Table 92. Seoul Semiconductor Competitive Strengths & Weaknesses

Table 93. Aucksun Basic Information, Manufacturing Base and Competitors

Table 94. Aucksun Major Business

Table 95. Aucksun High-Voltage LED Chips Product and Services

Table 96. Aucksun High-Voltage LED Chips Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Aucksun Recent Developments/Updates

Table 98. Aucksun Competitive Strengths & Weaknesses

Table 99. Huanyu Dream Technology Basic Information, Manufacturing Base and Competitors

Table 100. Huanyu Dream Technology Major Business

Table 101. Huanyu Dream Technology High-Voltage LED Chips Product and Services

Table 102. Huanyu Dream Technology High-Voltage LED Chips Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Huanyu Dream Technology Recent Developments/Updates

Table 104. Huanyu Dream Technology Competitive Strengths & Weaknesses

Table 105. HC Semitek Basic Information, Manufacturing Base and Competitors

Table 106. HC Semitek Major Business

Table 107. HC Semitek High-Voltage LED Chips Product and Services

Table 108. HC Semitek High-Voltage LED Chips Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. HC Semitek Recent Developments/Updates

Table 110. HC Semitek Competitive Strengths & Weaknesses

Table 111. Aqualite Basic Information, Manufacturing Base and Competitors

Table 112. Aqualite Major Business

Table 113. Aqualite High-Voltage LED Chips Product and Services

Table 114. Aqualite High-Voltage LED Chips Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Aqualite Recent Developments/Updates

Table 116. Aqualite Competitive Strengths & Weaknesses

Table 117. CHANGELIGHT Basic Information, Manufacturing Base and Competitors

Table 118. CHANGELIGHT Major Business

Table 119. CHANGELIGHT High-Voltage LED Chips Product and Services

Table 120. CHANGELIGHT High-Voltage LED Chips Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. CHANGELIGHT Recent Developments/Updates

Table 122. CHANGELIGHT Competitive Strengths & Weaknesses

Table 123. Focus Lightings Tech Basic Information, Manufacturing Base and Competitors

Table 124. Focus Lightings Tech Major Business

Table 125. Focus Lightings Tech High-Voltage LED Chips Product and Services

Table 126. Focus Lightings Tech High-Voltage LED Chips Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Focus Lightings Tech Recent Developments/Updates

Table 128. Focus Lightings Tech Competitive Strengths & Weaknesses

Table 129. HGC Basic Information, Manufacturing Base and Competitors

Table 130. HGC Major Business

Table 131. HGC High-Voltage LED Chips Product and Services

Table 132. HGC High-Voltage LED Chips Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. HGC Recent Developments/Updates

Table 134. HGC Competitive Strengths & Weaknesses

Table 135. Cree LED Basic Information, Manufacturing Base and Competitors

Table 136. Cree LED Major Business

Table 137. Cree LED High-Voltage LED Chips Product and Services

Table 138. Cree LED High-Voltage LED Chips Production (K Pcs), Price (US\$/Pcs), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Cree LED Recent Developments/Updates

Table 140. Cree LED Competitive Strengths & Weaknesses

Table 141. Global Key Players of High-Voltage LED Chips Upstream (Raw Materials)

Table 142. Global High-Voltage LED Chips Typical Customers

Table 143. High-Voltage LED Chips Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. High-Voltage LED Chips Picture

Figure 2. World High-Voltage LED Chips Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World High-Voltage LED Chips Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World High-Voltage LED Chips Production (2021-2032) & (K Pcs)

Figure 5. World High-Voltage LED Chips Average Price (2021-2032) & (US\$/Pcs)

Figure 6. World High-Voltage LED Chips Production Value Market Share by Region (2021-2032)

Figure 7. World High-Voltage LED Chips Production Market Share by Region (2021-2032)

Figure 8. North America High-Voltage LED Chips Production (2021-2032) & (K Pcs)

Figure 9. Europe High-Voltage LED Chips Production (2021-2032) & (K Pcs)

Figure 10. China High-Voltage LED Chips Production (2021-2032) & (K Pcs)

Figure 11. Japan High-Voltage LED Chips Production (2021-2032) & (K Pcs)

Figure 12. South Korea High-Voltage LED Chips Production (2021-2032) & (K Pcs)

Figure 13. Southeast Asia High-Voltage LED Chips Production (2021-2032) & (K Pcs)

Figure 14. China Taiwan High-Voltage LED Chips Production (2021-2032) & (K Pcs)

Figure 15. High-Voltage LED Chips Market Drivers

Figure 16. Factors Affecting Demand

Figure 17. World High-Voltage LED Chips Consumption (2021-2032) & (K Pcs)

Figure 18. World High-Voltage LED Chips Consumption Market Share by Region (2021-2032)

Figure 19. United States High-Voltage LED Chips Consumption (2021-2032) & (K Pcs)

Figure 20. China High-Voltage LED Chips Consumption (2021-2032) & (K Pcs)

Figure 21. Europe High-Voltage LED Chips Consumption (2021-2032) & (K Pcs)

Figure 22. Japan High-Voltage LED Chips Consumption (2021-2032) & (K Pcs)

Figure 23. South Korea High-Voltage LED Chips Consumption (2021-2032) & (K Pcs)

Figure 24. ASEAN High-Voltage LED Chips Consumption (2021-2032) & (K Pcs)

Figure 25. India High-Voltage LED Chips Consumption (2021-2032) & (K Pcs)

Figure 26. Producer Shipments of High-Voltage LED Chips by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 27. Global Four-firm Concentration Ratios (CR4) for High-Voltage LED Chips Markets in 2025

Figure 28. Global Four-firm Concentration Ratios (CR8) for High-Voltage LED Chips

Markets in 2025

Figure 29. United States VS China: High-Voltage LED Chips Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: High-Voltage LED Chips Production Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: High-Voltage LED Chips Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers High-Voltage LED Chips Production Market Share 2025

Figure 33. China Based Manufacturers High-Voltage LED Chips Production Market Share 2025

Figure 34. Rest of World Based Manufacturers High-Voltage LED Chips Production Market Share 2025

Figure 35. World High-Voltage LED Chips Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 36. World High-Voltage LED Chips Production Value Market Share by Type in 2025

Figure 37. Upright Structure

Figure 38. Inverted Structure

Figure 39. Vertical Structure

Figure 40. World High-Voltage LED Chips Production Market Share by Type (2021-2032)

Figure 41. World High-Voltage LED Chips Production Value Market Share by Type (2021-2032)

Figure 42. World High-Voltage LED Chips Average Price by Type (2021-2032) & (US\$/Pcs)

Figure 43. World High-Voltage LED Chips Production Value by Structure, (USD Million), 2021 & 2025 & 2032

Figure 44. World High-Voltage LED Chips Production Value Market Share by Structure in 2025

Figure 45. Integrated

Figure 46. Discrete Package

Figure 47. World High-Voltage LED Chips Production Market Share by Structure (2021-2032)

Figure 48. World High-Voltage LED Chips Production Value Market Share by Structure (2021-2032)

Figure 49. World High-Voltage LED Chips Average Price by Structure (2021-2032) & (US\$/Pcs)

Figure 50. World High-Voltage LED Chips Production Value by Power, (USD Million),

2021 & 2025 & 2032

Figure 51. World High-Voltage LED Chips Production Value Market Share by Power in 2025

Figure 52. 0.5-1W

Figure 53. 1-5W

Figure 54. ≥5W

Figure 55. World High-Voltage LED Chips Production Market Share by Power (2021-2032)

Figure 56. World High-Voltage LED Chips Production Value Market Share by Power (2021-2032)

Figure 57. World High-Voltage LED Chips Average Price by Power (2021-2032) & (US\$/Pcs)

Figure 58. World High-Voltage LED Chips Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 59. World High-Voltage LED Chips Production Value Market Share by Application in 2025

Figure 60. Bulbs

Figure 61. LED Tubes

Figure 62. Others

Figure 63. World High-Voltage LED Chips Production Market Share by Application (2021-2032)

Figure 64. World High-Voltage LED Chips Production Value Market Share by Application (2021-2032)

Figure 65. World High-Voltage LED Chips Average Price by Application (2021-2032) & (US\$/Pcs)

Figure 66. High-Voltage LED Chips Industry Chain

Figure 67. High-Voltage LED Chips Procurement Model

Figure 68. High-Voltage LED Chips Sales Model

Figure 69. High-Voltage LED Chips Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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