

Global Bidirectional Thyristor Dimming LED Driver Market Growth 2026-2032

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Abstracts

The global Bidirectional Thyristor Dimming LED Driver market size is predicted to grow from US\$ 639 million in 2025 to US\$ 993 million in 2032; it is expected to grow at a CAGR of 6.6% from 2026 to 2032.

In 2024, global sales of Bidirectional Thyristor Dimming LED Drivers reached 52 million units, with an average selling price of US\$11.8. A Bidirectional Thyristor Dimming LED Driver is an electronic drive module that provides constant current or constant voltage output for dimming LED lighting fixtures and is compatible with leading-edge/tail-edge thyristor dimmers. It features wide input bandwidth, flicker suppression, load adaptation, and EMI optimization. Upstream raw materials mainly include MOSFETs, bidirectional thyristors, rectifier bridges, inductor cores, aluminum electrolytic capacitors, resistors and capacitors, and PCB boards, with a material consumption of approximately 65–90g per unit. The industry's total capacity is approximately 110 million units per year, with a gross profit margin of 18%–26%. Downstream applications include LED dimming downlights, track lights, wall lights, commercial lighting, and hotel lighting systems, with a single-lamp driver consumption ratio of 1:1. Future development focuses on high-PF, low-flicker versions, compatibility with DALI/0-10V hybrid dimming, smart home connectivity, and ultra-thin packaging. Demand growth is driven by commercial energy-saving renovations, building intelligence, and home upgrades. Business opportunities mainly come from dimming retrofits of existing lighting systems and the increased demand for high-end dimming quality.

United States market for Bidirectional Thyristor Dimming LED Driver is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Bidirectional Thyristor Dimming LED Driver is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Bidirectional Thyristor Dimming LED Driver is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Bidirectional Thyristor Dimming LED Driver players cover SURETRON, STARWELL, LTECH, Mean Well, LightStec, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Bidirectional Thyristor Dimming LED Driver 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 Bidirectional Thyristor Dimming LED Driver.

This report presents a comprehensive overview, market shares, and growth opportunities of Bidirectional Thyristor Dimming LED Driver market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Constant Voltage Dimming Driver

Constant Current Dimming Driver

Segmentation by Isolation Characteristics:

Isolated

Non-isolated

Segmentation by Power Range:

Power Range: < 50W

Power Range: 50W - 300W+

Segmentation by Application:

Architectural Landscape

Smart Home

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.

SURETRON

STARWELL

LTECH

Mean Well

LightStec

Diodes Incorporated

Ever Shining Optotech Co.,Ltd.

Brightstarpower

STMicroelectronics

Tecolite

BOQI

Key Questions Addressed in this Report

What is the 10-year outlook for the global Bidirectional Thyristor Dimming LED Driver market?

What factors are driving Bidirectional Thyristor Dimming LED Driver market growth, globally and by region?

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

How do Bidirectional Thyristor Dimming LED Driver market opportunities vary by end market size?

How does Bidirectional Thyristor Dimming LED Driver break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Bidirectional Thyristor Dimming LED Driver Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Bidirectional Thyristor Dimming LED Driver by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Bidirectional Thyristor Dimming LED Driver by Country/Region, 2021, 2025 & 2032

2.2 Bidirectional Thyristor Dimming LED Driver Segment by Type

- 2.2.1 Constant Voltage Dimming Driver
- 2.2.2 Constant Current Dimming Driver
- 2.2.3 Bidirectional Thyristor Dimming LED Driver Sales by Type
 - 2.2.3.1 Global Bidirectional Thyristor Dimming LED Driver Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global Bidirectional Thyristor Dimming LED Driver Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global Bidirectional Thyristor Dimming LED Driver Sale Price by Type (2021-2026)

2.3 Bidirectional Thyristor Dimming LED Driver Segment by Isolation Characteristics

- 2.3.1 Isolated
- 2.3.2 Non-isolated
- 2.3.3 Bidirectional Thyristor Dimming LED Driver Sales by Isolation Characteristics
 - 2.3.3.1 Global Bidirectional Thyristor Dimming LED Driver Sales Market Share by Isolation Characteristics (2021-2026)
 - 2.3.3.2 Global Bidirectional Thyristor Dimming LED Driver Revenue and Market Share by Isolation Characteristics (2021-2026)

2.3.3.3 Global Bidirectional Thyristor Dimming LED Driver Sale Price by Isolation Characteristics (2021-2026)

2.4 Bidirectional Thyristor Dimming LED Driver Segment by Power Range

2.4.1 Power Range: < 50W

2.4.2 Power Range: 50W - 300W+

2.4.3 Bidirectional Thyristor Dimming LED Driver Sales by Power Range

2.4.3.1 Global Bidirectional Thyristor Dimming LED Driver Sales Market Share by Power Range (2021-2026)

2.4.3.2 Global Bidirectional Thyristor Dimming LED Driver Revenue and Market Share by Power Range (2021-2026)

2.4.3.3 Global Bidirectional Thyristor Dimming LED Driver Sale Price by Power Range (2021-2026)

2.5 Bidirectional Thyristor Dimming LED Driver Segment by Application

2.5.1 Architectural Landscape

2.5.2 Smart Home

2.5.3 Others

2.5.4 Bidirectional Thyristor Dimming LED Driver Sales by Application

2.5.4.1 Global Bidirectional Thyristor Dimming LED Driver Sale Market Share by Application (2021-2026)

2.5.4.2 Global Bidirectional Thyristor Dimming LED Driver Revenue and Market Share by Application (2021-2026)

2.5.4.3 Global Bidirectional Thyristor Dimming LED Driver Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Bidirectional Thyristor Dimming LED Driver Breakdown Data by Company

3.1.1 Global Bidirectional Thyristor Dimming LED Driver Annual Sales by Company (2021-2026)

3.1.2 Global Bidirectional Thyristor Dimming LED Driver Sales Market Share by Company (2021-2026)

3.2 Global Bidirectional Thyristor Dimming LED Driver Annual Revenue by Company (2021-2026)

3.2.1 Global Bidirectional Thyristor Dimming LED Driver Revenue by Company (2021-2026)

3.2.2 Global Bidirectional Thyristor Dimming LED Driver Revenue Market Share by Company (2021-2026)

3.3 Global Bidirectional Thyristor Dimming LED Driver Sale Price by Company

3.4 Key Manufacturers Bidirectional Thyristor Dimming LED Driver Producing Area

Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Bidirectional Thyristor Dimming LED Driver Product Location Distribution

3.4.2 Players Bidirectional Thyristor Dimming LED Driver Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR BIDIRECTIONAL THYRISTOR DIMMING LED DRIVER BY GEOGRAPHIC REGION

4.1 World Historic Bidirectional Thyristor Dimming LED Driver Market Size by Geographic Region (2021-2026)

4.1.1 Global Bidirectional Thyristor Dimming LED Driver Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Bidirectional Thyristor Dimming LED Driver Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Bidirectional Thyristor Dimming LED Driver Market Size by Country/Region (2021-2026)

4.2.1 Global Bidirectional Thyristor Dimming LED Driver Annual Sales by Country/Region (2021-2026)

4.2.2 Global Bidirectional Thyristor Dimming LED Driver Annual Revenue by Country/Region (2021-2026)

4.3 Americas Bidirectional Thyristor Dimming LED Driver Sales Growth

4.4 APAC Bidirectional Thyristor Dimming LED Driver Sales Growth

4.5 Europe Bidirectional Thyristor Dimming LED Driver Sales Growth

4.6 Middle East & Africa Bidirectional Thyristor Dimming LED Driver Sales Growth

5 AMERICAS

5.1 Americas Bidirectional Thyristor Dimming LED Driver Sales by Country

5.1.1 Americas Bidirectional Thyristor Dimming LED Driver Sales by Country (2021-2026)

5.1.2 Americas Bidirectional Thyristor Dimming LED Driver Revenue by Country (2021-2026)

5.2 Americas Bidirectional Thyristor Dimming LED Driver Sales by Type (2021-2026)

5.3 Americas Bidirectional Thyristor Dimming LED Driver Sales by Application

(2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Bidirectional Thyristor Dimming LED Driver Sales by Region

6.1.1 APAC Bidirectional Thyristor Dimming LED Driver Sales by Region (2021-2026)

6.1.2 APAC Bidirectional Thyristor Dimming LED Driver Revenue by Region

(2021-2026)

6.2 APAC Bidirectional Thyristor Dimming LED Driver Sales by Type (2021-2026)

6.3 APAC Bidirectional Thyristor Dimming LED Driver Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Bidirectional Thyristor Dimming LED Driver by Country

7.1.1 Europe Bidirectional Thyristor Dimming LED Driver Sales by Country

(2021-2026)

7.1.2 Europe Bidirectional Thyristor Dimming LED Driver Revenue by Country

(2021-2026)

7.2 Europe Bidirectional Thyristor Dimming LED Driver Sales by Type (2021-2026)

7.3 Europe Bidirectional Thyristor Dimming LED Driver Sales by Application

(2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Bidirectional Thyristor Dimming LED Driver by Country

8.1.1 Middle East & Africa Bidirectional Thyristor Dimming LED Driver Sales by Country (2021-2026)

8.1.2 Middle East & Africa Bidirectional Thyristor Dimming LED Driver Revenue by Country (2021-2026)

8.2 Middle East & Africa Bidirectional Thyristor Dimming LED Driver Sales by Type (2021-2026)

8.3 Middle East & Africa Bidirectional Thyristor Dimming LED Driver Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Bidirectional Thyristor Dimming LED Driver

10.3 Manufacturing Process Analysis of Bidirectional Thyristor Dimming LED Driver

10.4 Industry Chain Structure of Bidirectional Thyristor Dimming LED Driver

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Bidirectional Thyristor Dimming LED Driver Distributors

11.3 Bidirectional Thyristor Dimming LED Driver Customer

12 WORLD FORECAST REVIEW FOR BIDIRECTIONAL THYRISTOR DIMMING LED

DRIVER BY GEOGRAPHIC REGION

12.1 Global Bidirectional Thyristor Dimming LED Driver Market Size Forecast by Region

12.1.1 Global Bidirectional Thyristor Dimming LED Driver Forecast by Region (2027-2032)

12.1.2 Global Bidirectional Thyristor Dimming LED Driver Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Bidirectional Thyristor Dimming LED Driver Forecast by Type (2027-2032)

12.7 Global Bidirectional Thyristor Dimming LED Driver Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 SURETRON

13.1.1 SURETRON Company Information

13.1.2 SURETRON Bidirectional Thyristor Dimming LED Driver Product Portfolios and Specifications

13.1.3 SURETRON Bidirectional Thyristor Dimming LED Driver Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 SURETRON Main Business Overview

13.1.5 SURETRON Latest Developments

13.2 STARWELL

13.2.1 STARWELL Company Information

13.2.2 STARWELL Bidirectional Thyristor Dimming LED Driver Product Portfolios and Specifications

13.2.3 STARWELL Bidirectional Thyristor Dimming LED Driver Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 STARWELL Main Business Overview

13.2.5 STARWELL Latest Developments

13.3 LTECH

13.3.1 LTECH Company Information

13.3.2 LTECH Bidirectional Thyristor Dimming LED Driver Product Portfolios and Specifications

13.3.3 LTECH Bidirectional Thyristor Dimming LED Driver Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.3.4 LTECH Main Business Overview
- 13.3.5 LTECH Latest Developments
- 13.4 Mean Well
 - 13.4.1 Mean Well Company Information
 - 13.4.2 Mean Well Bidirectional Thyristor Dimming LED Driver Product Portfolios and Specifications
 - 13.4.3 Mean Well Bidirectional Thyristor Dimming LED Driver Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 Mean Well Main Business Overview
 - 13.4.5 Mean Well Latest Developments
- 13.5 LightStec
 - 13.5.1 LightStec Company Information
 - 13.5.2 LightStec Bidirectional Thyristor Dimming LED Driver Product Portfolios and Specifications
 - 13.5.3 LightStec Bidirectional Thyristor Dimming LED Driver Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 LightStec Main Business Overview
 - 13.5.5 LightStec Latest Developments
- 13.6 Diodes Incorporated
 - 13.6.1 Diodes Incorporated Company Information
 - 13.6.2 Diodes Incorporated Bidirectional Thyristor Dimming LED Driver Product Portfolios and Specifications
 - 13.6.3 Diodes Incorporated Bidirectional Thyristor Dimming LED Driver Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Diodes Incorporated Main Business Overview
 - 13.6.5 Diodes Incorporated Latest Developments
- 13.7 Ever Shining Optotech Co.,Ltd.
 - 13.7.1 Ever Shining Optotech Co.,Ltd. Company Information
 - 13.7.2 Ever Shining Optotech Co.,Ltd. Bidirectional Thyristor Dimming LED Driver Product Portfolios and Specifications
 - 13.7.3 Ever Shining Optotech Co.,Ltd. Bidirectional Thyristor Dimming LED Driver Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Ever Shining Optotech Co.,Ltd. Main Business Overview
 - 13.7.5 Ever Shining Optotech Co.,Ltd. Latest Developments
- 13.8 Brightstarpower
 - 13.8.1 Brightstarpower Company Information
 - 13.8.2 Brightstarpower Bidirectional Thyristor Dimming LED Driver Product Portfolios and Specifications
 - 13.8.3 Brightstarpower Bidirectional Thyristor Dimming LED Driver Sales, Revenue,

Price and Gross Margin (2021-2026)

13.8.4 Brightstarpower Main Business Overview

13.8.5 Brightstarpower Latest Developments

13.9 STMicroelectronics

13.9.1 STMicroelectronics Company Information

13.9.2 STMicroelectronics Bidirectional Thyristor Dimming LED Driver Product

Portfolios and Specifications

13.9.3 STMicroelectronics Bidirectional Thyristor Dimming LED Driver Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 STMicroelectronics Main Business Overview

13.9.5 STMicroelectronics Latest Developments

13.10 Tecolite

13.10.1 Tecolite Company Information

13.10.2 Tecolite Bidirectional Thyristor Dimming LED Driver Product Portfolios and Specifications

13.10.3 Tecolite Bidirectional Thyristor Dimming LED Driver Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Tecolite Main Business Overview

13.10.5 Tecolite Latest Developments

13.11 BOQI

13.11.1 BOQI Company Information

13.11.2 BOQI Bidirectional Thyristor Dimming LED Driver Product Portfolios and Specifications

13.11.3 BOQI Bidirectional Thyristor Dimming LED Driver Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 BOQI Main Business Overview

13.11.5 BOQI Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. Bidirectional Thyristor Dimming LED Driver Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Table 2. Bidirectional Thyristor Dimming LED Driver Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of Constant Voltage Dimming Driver
- Table 4. Major Players of Constant Current Dimming Driver
- Table 5. Global Bidirectional Thyristor Dimming LED Driver Sales by Type (2021-2026) & (K Units)
- Table 6. Global Bidirectional Thyristor Dimming LED Driver Sales Market Share by Type (2021-2026)
- Table 7. Global Bidirectional Thyristor Dimming LED Driver Revenue by Type (2021-2026) & (\$ million)
- Table 8. Global Bidirectional Thyristor Dimming LED Driver Revenue Market Share by Type (2021-2026)
- Table 9. Global Bidirectional Thyristor Dimming LED Driver Sale Price by Type (2021-2026) & (US\$/Unit)
- Table 10. Major Players of Isolated
- Table 11. Major Players of Non-isolated
- Table 12. Global Bidirectional Thyristor Dimming LED Driver Sales by Isolation Characteristics (2021-2026) & (K Units)
- Table 13. Global Bidirectional Thyristor Dimming LED Driver Sales Market Share by Isolation Characteristics (2021-2026)
- Table 14. Global Bidirectional Thyristor Dimming LED Driver Revenue by Isolation Characteristics (2021-2026) & (\$ million)
- Table 15. Global Bidirectional Thyristor Dimming LED Driver Revenue Market Share by Isolation Characteristics (2021-2026)
- Table 16. Global Bidirectional Thyristor Dimming LED Driver Sale Price by Isolation Characteristics (2021-2026) & (US\$/Unit)
- Table 17. Major Players of Power Range: < 50W
- Table 18. Major Players of Power Range: 50W - 300W+
- Table 19. Global Bidirectional Thyristor Dimming LED Driver Sales by Power Range (2021-2026) & (K Units)
- Table 20. Global Bidirectional Thyristor Dimming LED Driver Sales Market Share by Power Range (2021-2026)
- Table 21. Global Bidirectional Thyristor Dimming LED Driver Revenue by Power Range

(2021-2026) & (\$ million)

Table 22. Global Bidirectional Thyristor Dimming LED Driver Revenue Market Share by Power Range (2021-2026)

Table 23. Global Bidirectional Thyristor Dimming LED Driver Sale Price by Power Range (2021-2026) & (US\$/Unit)

Table 24. Global Bidirectional Thyristor Dimming LED Driver Sale by Application (2021-2026) & (K Units)

Table 25. Global Bidirectional Thyristor Dimming LED Driver Sale Market Share by Application (2021-2026)

Table 26. Global Bidirectional Thyristor Dimming LED Driver Revenue by Application (2021-2026) & (\$ million)

Table 27. Global Bidirectional Thyristor Dimming LED Driver Revenue Market Share by Application (2021-2026)

Table 28. Global Bidirectional Thyristor Dimming LED Driver Sale Price by Application (2021-2026) & (US\$/Unit)

Table 29. Global Bidirectional Thyristor Dimming LED Driver Sales by Company (2021-2026) & (K Units)

Table 30. Global Bidirectional Thyristor Dimming LED Driver Sales Market Share by Company (2021-2026)

Table 31. Global Bidirectional Thyristor Dimming LED Driver Revenue by Company (2021-2026) & (\$ millions)

Table 32. Global Bidirectional Thyristor Dimming LED Driver Revenue Market Share by Company (2021-2026)

Table 33. Global Bidirectional Thyristor Dimming LED Driver Sale Price by Company (2021-2026) & (US\$/Unit)

Table 34. Key Manufacturers Bidirectional Thyristor Dimming LED Driver Producing Area Distribution and Sales Area

Table 35. Players Bidirectional Thyristor Dimming LED Driver Products Offered

Table 36. Bidirectional Thyristor Dimming LED Driver Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 37. New Products and Potential Entrants

Table 38. Market M&A Activity & Strategy

Table 39. Global Bidirectional Thyristor Dimming LED Driver Sales by Geographic Region (2021-2026) & (K Units)

Table 40. Global Bidirectional Thyristor Dimming LED Driver Sales Market Share Geographic Region (2021-2026)

Table 41. Global Bidirectional Thyristor Dimming LED Driver Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 42. Global Bidirectional Thyristor Dimming LED Driver Revenue Market Share by

Geographic Region (2021-2026)

Table 43. Global Bidirectional Thyristor Dimming LED Driver Sales by Country/Region (2021-2026) & (K Units)

Table 44. Global Bidirectional Thyristor Dimming LED Driver Sales Market Share by Country/Region (2021-2026)

Table 45. Global Bidirectional Thyristor Dimming LED Driver Revenue by Country/Region (2021-2026) & (\$ millions)

Table 46. Global Bidirectional Thyristor Dimming LED Driver Revenue Market Share by Country/Region (2021-2026)

Table 47. Americas Bidirectional Thyristor Dimming LED Driver Sales by Country (2021-2026) & (K Units)

Table 48. Americas Bidirectional Thyristor Dimming LED Driver Sales Market Share by Country (2021-2026)

Table 49. Americas Bidirectional Thyristor Dimming LED Driver Revenue by Country (2021-2026) & (\$ millions)

Table 50. Americas Bidirectional Thyristor Dimming LED Driver Sales by Type (2021-2026) & (K Units)

Table 51. Americas Bidirectional Thyristor Dimming LED Driver Sales by Application (2021-2026) & (K Units)

Table 52. APAC Bidirectional Thyristor Dimming LED Driver Sales by Region (2021-2026) & (K Units)

Table 53. APAC Bidirectional Thyristor Dimming LED Driver Sales Market Share by Region (2021-2026)

Table 54. APAC Bidirectional Thyristor Dimming LED Driver Revenue by Region (2021-2026) & (\$ millions)

Table 55. APAC Bidirectional Thyristor Dimming LED Driver Sales by Type (2021-2026) & (K Units)

Table 56. APAC Bidirectional Thyristor Dimming LED Driver Sales by Application (2021-2026) & (K Units)

Table 57. Europe Bidirectional Thyristor Dimming LED Driver Sales by Country (2021-2026) & (K Units)

Table 58. Europe Bidirectional Thyristor Dimming LED Driver Revenue by Country (2021-2026) & (\$ millions)

Table 59. Europe Bidirectional Thyristor Dimming LED Driver Sales by Type (2021-2026) & (K Units)

Table 60. Europe Bidirectional Thyristor Dimming LED Driver Sales by Application (2021-2026) & (K Units)

Table 61. Middle East & Africa Bidirectional Thyristor Dimming LED Driver Sales by Country (2021-2026) & (K Units)

Table 62. Middle East & Africa Bidirectional Thyristor Dimming LED Driver Revenue Market Share by Country (2021-2026)

Table 63. Middle East & Africa Bidirectional Thyristor Dimming LED Driver Sales by Type (2021-2026) & (K Units)

Table 64. Middle East & Africa Bidirectional Thyristor Dimming LED Driver Sales by Application (2021-2026) & (K Units)

Table 65. Key Market Drivers & Growth Opportunities of Bidirectional Thyristor Dimming LED Driver

Table 66. Key Market Challenges & Risks of Bidirectional Thyristor Dimming LED Driver

Table 67. Key Industry Trends of Bidirectional Thyristor Dimming LED Driver

Table 68. Bidirectional Thyristor Dimming LED Driver Raw Material

Table 69. Key Suppliers of Raw Materials

Table 70. Bidirectional Thyristor Dimming LED Driver Distributors List

Table 71. Bidirectional Thyristor Dimming LED Driver Customer List

Table 72. Global Bidirectional Thyristor Dimming LED Driver Sales Forecast by Region (2027-2032) & (K Units)

Table 73. Global Bidirectional Thyristor Dimming LED Driver Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 74. Americas Bidirectional Thyristor Dimming LED Driver Sales Forecast by Country (2027-2032) & (K Units)

Table 75. Americas Bidirectional Thyristor Dimming LED Driver Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 76. APAC Bidirectional Thyristor Dimming LED Driver Sales Forecast by Region (2027-2032) & (K Units)

Table 77. APAC Bidirectional Thyristor Dimming LED Driver Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 78. Europe Bidirectional Thyristor Dimming LED Driver Sales Forecast by Country (2027-2032) & (K Units)

Table 79. Europe Bidirectional Thyristor Dimming LED Driver Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 80. Middle East & Africa Bidirectional Thyristor Dimming LED Driver Sales Forecast by Country (2027-2032) & (K Units)

Table 81. Middle East & Africa Bidirectional Thyristor Dimming LED Driver Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 82. Global Bidirectional Thyristor Dimming LED Driver Sales Forecast by Type (2027-2032) & (K Units)

Table 83. Global Bidirectional Thyristor Dimming LED Driver Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 84. Global Bidirectional Thyristor Dimming LED Driver Sales Forecast by

Application (2027-2032) & (K Units)

Table 85. Global Bidirectional Thyristor Dimming LED Driver Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 86. SURETRON Basic Information, Bidirectional Thyristor Dimming LED Driver Manufacturing Base, Sales Area and Its Competitors

Table 87. SURETRON Bidirectional Thyristor Dimming LED Driver Product Portfolios and Specifications

Table 88. SURETRON Bidirectional Thyristor Dimming LED Driver Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 89. SURETRON Main Business

Table 90. SURETRON Latest Developments

Table 91. STARWELL Basic Information, Bidirectional Thyristor Dimming LED Driver Manufacturing Base, Sales Area and Its Competitors

Table 92. STARWELL Bidirectional Thyristor Dimming LED Driver Product Portfolios and Specifications

Table 93. STARWELL Bidirectional Thyristor Dimming LED Driver Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 94. STARWELL Main Business

Table 95. STARWELL Latest Developments

Table 96. LTECH Basic Information, Bidirectional Thyristor Dimming LED Driver Manufacturing Base, Sales Area and Its Competitors

Table 97. LTECH Bidirectional Thyristor Dimming LED Driver Product Portfolios and Specifications

Table 98. LTECH Bidirectional Thyristor Dimming LED Driver Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 99. LTECH Main Business

Table 100. LTECH Latest Developments

Table 101. Mean Well Basic Information, Bidirectional Thyristor Dimming LED Driver Manufacturing Base, Sales Area and Its Competitors

Table 102. Mean Well Bidirectional Thyristor Dimming LED Driver Product Portfolios and Specifications

Table 103. Mean Well Bidirectional Thyristor Dimming LED Driver Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 104. Mean Well Main Business

Table 105. Mean Well Latest Developments

Table 106. LightStec Basic Information, Bidirectional Thyristor Dimming LED Driver Manufacturing Base, Sales Area and Its Competitors

Table 107. LightStec Bidirectional Thyristor Dimming LED Driver Product Portfolios and Specifications

Table 108. LightStec Bidirectional Thyristor Dimming LED Driver Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 109. LightStec Main Business

Table 110. LightStec Latest Developments

Table 111. Diodes Incorporated Basic Information, Bidirectional Thyristor Dimming LED Driver Manufacturing Base, Sales Area and Its Competitors

Table 112. Diodes Incorporated Bidirectional Thyristor Dimming LED Driver Product Portfolios and Specifications

Table 113. Diodes Incorporated Bidirectional Thyristor Dimming LED Driver Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 114. Diodes Incorporated Main Business

Table 115. Diodes Incorporated Latest Developments

Table 116. Ever Shining Optotech Co.,Ltd. Basic Information, Bidirectional Thyristor Dimming LED Driver Manufacturing Base, Sales Area and Its Competitors

Table 117. Ever Shining Optotech Co.,Ltd. Bidirectional Thyristor Dimming LED Driver Product Portfolios and Specifications

Table 118. Ever Shining Optotech Co.,Ltd. Bidirectional Thyristor Dimming LED Driver Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 119. Ever Shining Optotech Co.,Ltd. Main Business

Table 120. Ever Shining Optotech Co.,Ltd. Latest Developments

Table 121. Brightstarpower Basic Information, Bidirectional Thyristor Dimming LED Driver Manufacturing Base, Sales Area and Its Competitors

Table 122. Brightstarpower Bidirectional Thyristor Dimming LED Driver Product Portfolios and Specifications

Table 123. Brightstarpower Bidirectional Thyristor Dimming LED Driver Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 124. Brightstarpower Main Business

Table 125. Brightstarpower Latest Developments

Table 126. STMicroelectronics Basic Information, Bidirectional Thyristor Dimming LED Driver Manufacturing Base, Sales Area and Its Competitors

Table 127. STMicroelectronics Bidirectional Thyristor Dimming LED Driver Product Portfolios and Specifications

Table 128. STMicroelectronics Bidirectional Thyristor Dimming LED Driver Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 129. STMicroelectronics Main Business

Table 130. STMicroelectronics Latest Developments

Table 131. Tecolite Basic Information, Bidirectional Thyristor Dimming LED Driver Manufacturing Base, Sales Area and Its Competitors

Table 132. Tecolite Bidirectional Thyristor Dimming LED Driver Product Portfolios and

Specifications

Table 133. Tecolite Bidirectional Thyristor Dimming LED Driver Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 134. Tecolite Main Business

Table 135. Tecolite Latest Developments

Table 136. BOQI Basic Information, Bidirectional Thyristor Dimming LED Driver Manufacturing Base, Sales Area and Its Competitors

Table 137. BOQI Bidirectional Thyristor Dimming LED Driver Product Portfolios and Specifications

Table 138. BOQI Bidirectional Thyristor Dimming LED Driver Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 139. BOQI Main Business

Table 140. BOQI Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Bidirectional Thyristor Dimming LED Driver
- Figure 2. Bidirectional Thyristor Dimming LED Driver Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Bidirectional Thyristor Dimming LED Driver Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global Bidirectional Thyristor Dimming LED Driver Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Bidirectional Thyristor Dimming LED Driver Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Bidirectional Thyristor Dimming LED Driver Sales Market Share by Country/Region (2025)
- Figure 10. Bidirectional Thyristor Dimming LED Driver Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Constant Voltage Dimming Driver
- Figure 12. Product Picture of Constant Current Dimming Driver
- Figure 13. Global Bidirectional Thyristor Dimming LED Driver Sales Market Share by Type in 2026
- Figure 14. Global Bidirectional Thyristor Dimming LED Driver Revenue Market Share by Type (2021-2026)
- Figure 15. Product Picture of Isolated
- Figure 16. Product Picture of Non-isolated
- Figure 17. Global Bidirectional Thyristor Dimming LED Driver Sales Market Share by Isolation Characteristics in 2026
- Figure 18. Global Bidirectional Thyristor Dimming LED Driver Revenue Market Share by Isolation Characteristics (2021-2026)
- Figure 19. Product Picture of Power Range: < 50W
- Figure 20. Product Picture of Power Range: 50W - 300W+
- Figure 21. Global Bidirectional Thyristor Dimming LED Driver Sales Market Share by Power Range in 2026
- Figure 22. Global Bidirectional Thyristor Dimming LED Driver Revenue Market Share by Power Range (2021-2026)
- Figure 23. Bidirectional Thyristor Dimming LED Driver Consumed in Architectural Landscape

Figure 24. Global Bidirectional Thyristor Dimming LED Driver Market: Architectural Landscape (2021-2026) & (K Units)

Figure 25. Bidirectional Thyristor Dimming LED Driver Consumed in Smart Home

Figure 26. Global Bidirectional Thyristor Dimming LED Driver Market: Smart Home (2021-2026) & (K Units)

Figure 27. Bidirectional Thyristor Dimming LED Driver Consumed in Others

Figure 28. Global Bidirectional Thyristor Dimming LED Driver Market: Others (2021-2026) & (K Units)

Figure 29. Global Bidirectional Thyristor Dimming LED Driver Sale Market Share by Application (2025)

Figure 30. Global Bidirectional Thyristor Dimming LED Driver Revenue Market Share by Application in 2026

Figure 31. Bidirectional Thyristor Dimming LED Driver Sales by Company in 2026 (K Units)

Figure 32. Global Bidirectional Thyristor Dimming LED Driver Sales Market Share by Company in 2026

Figure 33. Bidirectional Thyristor Dimming LED Driver Revenue by Company in 2026 (\$ millions)

Figure 34. Global Bidirectional Thyristor Dimming LED Driver Revenue Market Share by Company in 2026

Figure 35. Global Bidirectional Thyristor Dimming LED Driver Sales Market Share by Geographic Region (2021-2026)

Figure 36. Global Bidirectional Thyristor Dimming LED Driver Revenue Market Share by Geographic Region in 2026

Figure 37. Americas Bidirectional Thyristor Dimming LED Driver Sales 2021-2026 (K Units)

Figure 38. Americas Bidirectional Thyristor Dimming LED Driver Revenue 2021-2026 (\$ millions)

Figure 39. APAC Bidirectional Thyristor Dimming LED Driver Sales 2021-2026 (K Units)

Figure 40. APAC Bidirectional Thyristor Dimming LED Driver Revenue 2021-2026 (\$ millions)

Figure 41. Europe Bidirectional Thyristor Dimming LED Driver Sales 2021-2026 (K Units)

Figure 42. Europe Bidirectional Thyristor Dimming LED Driver Revenue 2021-2026 (\$ millions)

Figure 43. Middle East & Africa Bidirectional Thyristor Dimming LED Driver Sales 2021-2026 (K Units)

Figure 44. Middle East & Africa Bidirectional Thyristor Dimming LED Driver Revenue 2021-2026 (\$ millions)

Figure 45. Americas Bidirectional Thyristor Dimming LED Driver Sales Market Share by Country in 2026

Figure 46. Americas Bidirectional Thyristor Dimming LED Driver Revenue Market Share by Country (2021-2026)

Figure 47. Americas Bidirectional Thyristor Dimming LED Driver Sales Market Share by Type (2021-2026)

Figure 48. Americas Bidirectional Thyristor Dimming LED Driver Sales Market Share by Application (2021-2026)

Figure 49. United States Bidirectional Thyristor Dimming LED Driver Revenue Growth 2021-2026 (\$ millions)

Figure 50. Canada Bidirectional Thyristor Dimming LED Driver Revenue Growth 2021-2026 (\$ millions)

Figure 51. Mexico Bidirectional Thyristor Dimming LED Driver Revenue Growth 2021-2026 (\$ millions)

Figure 52. Brazil Bidirectional Thyristor Dimming LED Driver Revenue Growth 2021-2026 (\$ millions)

Figure 53. APAC Bidirectional Thyristor Dimming LED Driver Sales Market Share by Region in 2026

Figure 54. APAC Bidirectional Thyristor Dimming LED Driver Revenue Market Share by Region (2021-2026)

Figure 55. APAC Bidirectional Thyristor Dimming LED Driver Sales Market Share by Type (2021-2026)

Figure 56. APAC Bidirectional Thyristor Dimming LED Driver Sales Market Share by Application (2021-2026)

Figure 57. China Bidirectional Thyristor Dimming LED Driver Revenue Growth 2021-2026 (\$ millions)

Figure 58. Japan Bidirectional Thyristor Dimming LED Driver Revenue Growth 2021-2026 (\$ millions)

Figure 59. South Korea Bidirectional Thyristor Dimming LED Driver Revenue Growth 2021-2026 (\$ millions)

Figure 60. Southeast Asia Bidirectional Thyristor Dimming LED Driver Revenue Growth 2021-2026 (\$ millions)

Figure 61. India Bidirectional Thyristor Dimming LED Driver Revenue Growth 2021-2026 (\$ millions)

Figure 62. Australia Bidirectional Thyristor Dimming LED Driver Revenue Growth 2021-2026 (\$ millions)

Figure 63. China Taiwan Bidirectional Thyristor Dimming LED Driver Revenue Growth 2021-2026 (\$ millions)

Figure 64. Europe Bidirectional Thyristor Dimming LED Driver Sales Market Share by

Country in 2026

Figure 65. Europe Bidirectional Thyristor Dimming LED Driver Revenue Market Share by Country (2021-2026)

Figure 66. Europe Bidirectional Thyristor Dimming LED Driver Sales Market Share by Type (2021-2026)

Figure 67. Europe Bidirectional Thyristor Dimming LED Driver Sales Market Share by Application (2021-2026)

Figure 68. Germany Bidirectional Thyristor Dimming LED Driver Revenue Growth 2021-2026 (\$ millions)

Figure 69. France Bidirectional Thyristor Dimming LED Driver Revenue Growth 2021-2026 (\$ millions)

Figure 70. UK Bidirectional Thyristor Dimming LED Driver Revenue Growth 2021-2026 (\$ millions)

Figure 71. Italy Bidirectional Thyristor Dimming LED Driver Revenue Growth 2021-2026 (\$ millions)

Figure 72. Russia Bidirectional Thyristor Dimming LED Driver Revenue Growth 2021-2026 (\$ millions)

Figure 73. Middle East & Africa Bidirectional Thyristor Dimming LED Driver Sales Market Share by Country (2021-2026)

Figure 74. Middle East & Africa Bidirectional Thyristor Dimming LED Driver Sales Market Share by Type (2021-2026)

Figure 75. Middle East & Africa Bidirectional Thyristor Dimming LED Driver Sales Market Share by Application (2021-2026)

Figure 76. Egypt Bidirectional Thyristor Dimming LED Driver Revenue Growth 2021-2026 (\$ millions)

Figure 77. South Africa Bidirectional Thyristor Dimming LED Driver Revenue Growth 2021-2026 (\$ millions)

Figure 78. Israel Bidirectional Thyristor Dimming LED Driver Revenue Growth 2021-2026 (\$ millions)

Figure 79. Turkey Bidirectional Thyristor Dimming LED Driver Revenue Growth 2021-2026 (\$ millions)

Figure 80. GCC Countries Bidirectional Thyristor Dimming LED Driver Revenue Growth 2021-2026 (\$ millions)

Figure 81. Manufacturing Cost Structure Analysis of Bidirectional Thyristor Dimming LED Driver in 2026

Figure 82. Manufacturing Process Analysis of Bidirectional Thyristor Dimming LED Driver

Figure 83. Industry Chain Structure of Bidirectional Thyristor Dimming LED Driver

Figure 84. Channels of Distribution

Figure 85. Global Bidirectional Thyristor Dimming LED Driver Sales Market Forecast by Region (2027-2032)

Figure 86. Global Bidirectional Thyristor Dimming LED Driver Revenue Market Share Forecast by Region (2027-2032)

Figure 87. Global Bidirectional Thyristor Dimming LED Driver Sales Market Share Forecast by Type (2027-2032)

Figure 88. Global Bidirectional Thyristor Dimming LED Driver Revenue Market Share Forecast by Type (2027-2032)

Figure 89. Global Bidirectional Thyristor Dimming LED Driver Sales Market Share Forecast by Application (2027-2032)

Figure 90. Global Bidirectional Thyristor Dimming LED Driver Revenue Market Share Forecast by Application (2027-2032)

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