

Global Gallium Arsenide (GaAs) Solar Cell Market Growth 2025-2031

<https://marketpublishers.com/r/G15570C5B06AEN.html>

Date: March 2025

Pages: 105

Price: US\$ 3,660.00 (Single User License)

ID: G15570C5B06AEN

Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

The global Gallium Arsenide (GaAs) Solar Cell market size is predicted to grow from US\$ 449 million in 2025 to US\$ 583 million in 2031; it is expected to grow at a CAGR of 4.5% from 2025 to 2031.

A Gallium Arsenide (GaAs) solar cell is a type of solar cell that uses gallium arsenide (GaAs), a compound of gallium and arsenic, as its base material. GaAs belongs to the III-V group compound semiconductor materials and has a direct energy gap, making it well-suited for solar cell applications. Due to its excellent electronic and optical properties, GaAs solar cells offer high efficiency in converting sunlight into electricity.

Market Overview

Gallium Arsenide (GaAs) solar cells are known for their high photoelectric conversion efficiency, radiation resistance, and high voltage capabilities. These cells are predominantly used in space power supplies, such as for satellites, space stations, and space probes, where their longevity and reliability are crucial. Additionally, they find applications in remote radar stations, microwave communication stations, and other specialized settings.

Market Segmentation

By Connection Type: GaAs solar cells are categorized into single-junction, double-junction, triple-junction, and quad-junction types. Among these, triple-junction solar cells dominate the market, accounting for over 90% of the share.

By Application: The aerospace industry is the primary application area, accounting for over 90% of the market share, followed by military and civilian applications, which have smaller market shares.

Key Players and Market Share

Core manufacturers in the global GaAs solar cell market include Spectrolab, Rocket Lab, AZUR SPACE, Shanghai Institute of Space Power Sources, and CETC Blue Sky Technology, among others.

The top three companies in the industry occupy approximately 60% of the market share.

Market Trends and Developments

Expanding Applications: Beyond traditional photovoltaic applications, GaAs solar cells are being considered for electric vehicles, wireless communication devices, and aerospace applications, broadening their market potential.

Rapid Industrialization: Many companies are investing heavily in research and development, and some solar cell manufacturers are integrating GaAs technology into their production lines to enhance product performance and competitiveness.

Space Applications: With advantages in photoelectric conversion efficiency and radiation resistance, GaAs solar cells are expected to see explosive growth in demand for space applications, particularly as the civil satellite market expands and battery costs decrease.

Challenges and Opportunities

Challenges: The high cost of GaAs solar cells remains a significant challenge, limiting their widespread adoption. Additionally, the supply chain for GaAs materials and wafers is complex and subject to fluctuations in raw material prices and availability.

Opportunities: The ongoing transition to renewable energy sources, coupled with advancements in GaAs technology and decreasing production costs, presents significant growth opportunities for the market. Furthermore, the development of new applications, such as micro-LEDs and terahertz technology, could further expand the market for GaAs solar cells.

In conclusion, the GaAs Solar Cell market is poised for growth driven by increasing demand for high-efficiency solar power conversion solutions, particularly in space and specialized applications. With ongoing technological advancements and decreasing costs, the market has the potential to expand further into new territories and applications.

LP Information, Inc. (LPI) ' newest research report, the "Gallium Arsenide (GaAs) Solar Cell Industry Forecast" looks at past sales and reviews total world Gallium Arsenide (GaAs) Solar Cell sales in 2024, providing a comprehensive analysis by region and market sector of projected Gallium Arsenide (GaAs) Solar Cell sales for 2025 through 2031. With Gallium Arsenide (GaAs) Solar Cell sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Gallium Arsenide (GaAs) Solar Cell industry.

This Insight Report provides a comprehensive analysis of the global Gallium Arsenide (GaAs) Solar Cell 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 Gallium Arsenide (GaAs) Solar Cell portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Gallium Arsenide (GaAs) Solar Cell market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Gallium Arsenide (GaAs) Solar Cell 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 Gallium Arsenide (GaAs) Solar Cell.

This report presents a comprehensive overview, market shares, and growth opportunities of Gallium Arsenide (GaAs) Solar Cell market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Single-junction Solar Cell

Double-junction Solar Cell

Triple-junction Solar Cell

Quadruple-junction Solar Cell

Segmentation by Application:

Aerospace

Military

Civilian

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.

Spectrolab

Rocket Lab

AZUR SPACE

Shanghai Institute of Space Power-Sources

China Power God

KINGSOON

Dr Technology

Xiamen Changelight

Uniwatt

CESI

Key Questions Addressed in this Report

What is the 10-year outlook for the global Gallium Arsenide (GaAs) Solar Cell market?

What factors are driving Gallium Arsenide (GaAs) Solar Cell market growth, globally and by region?

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

How do Gallium Arsenide (GaAs) Solar Cell market opportunities vary by end market size?

How does Gallium Arsenide (GaAs) Solar Cell 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 Gallium Arsenide (GaAs) Solar Cell Annual Sales 2020-2031
 - 2.1.2 World Current & Future Analysis for Gallium Arsenide (GaAs) Solar Cell by Geographic Region, 2020, 2024 & 2031
 - 2.1.3 World Current & Future Analysis for Gallium Arsenide (GaAs) Solar Cell by Country/Region, 2020, 2024 & 2031
- 2.2 Gallium Arsenide (GaAs) Solar Cell Segment by Type
 - 2.2.1 Single-junction Solar Cell
 - 2.2.2 Double-junction Solar Cell
 - 2.2.3 Triple-junction Solar Cell
 - 2.2.4 Quadruple-junction Solar Cell
- 2.3 Gallium Arsenide (GaAs) Solar Cell Sales by Type
 - 2.3.1 Global Gallium Arsenide (GaAs) Solar Cell Sales Market Share by Type (2020-2025)
 - 2.3.2 Global Gallium Arsenide (GaAs) Solar Cell Revenue and Market Share by Type (2020-2025)
 - 2.3.3 Global Gallium Arsenide (GaAs) Solar Cell Sale Price by Type (2020-2025)
- 2.4 Gallium Arsenide (GaAs) Solar Cell Segment by Application
 - 2.4.1 Aerospace
 - 2.4.2 Military
 - 2.4.3 Civilian
- 2.5 Gallium Arsenide (GaAs) Solar Cell Sales by Application
 - 2.5.1 Global Gallium Arsenide (GaAs) Solar Cell Sale Market Share by Application (2020-2025)

2.5.2 Global Gallium Arsenide (GaAs) Solar Cell Revenue and Market Share by Application (2020-2025)

2.5.3 Global Gallium Arsenide (GaAs) Solar Cell Sale Price by Application (2020-2025)

3 GLOBAL BY COMPANY

3.1 Global Gallium Arsenide (GaAs) Solar Cell Breakdown Data by Company

3.1.1 Global Gallium Arsenide (GaAs) Solar Cell Annual Sales by Company (2020-2025)

3.1.2 Global Gallium Arsenide (GaAs) Solar Cell Sales Market Share by Company (2020-2025)

3.2 Global Gallium Arsenide (GaAs) Solar Cell Annual Revenue by Company (2020-2025)

3.2.1 Global Gallium Arsenide (GaAs) Solar Cell Revenue by Company (2020-2025)

3.2.2 Global Gallium Arsenide (GaAs) Solar Cell Revenue Market Share by Company (2020-2025)

3.3 Global Gallium Arsenide (GaAs) Solar Cell Sale Price by Company

3.4 Key Manufacturers Gallium Arsenide (GaAs) Solar Cell Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Gallium Arsenide (GaAs) Solar Cell Product Location Distribution

3.4.2 Players Gallium Arsenide (GaAs) Solar Cell Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR GALLIUM ARSENIDE (GAAS) SOLAR CELL BY GEOGRAPHIC REGION

4.1 World Historic Gallium Arsenide (GaAs) Solar Cell Market Size by Geographic Region (2020-2025)

4.1.1 Global Gallium Arsenide (GaAs) Solar Cell Annual Sales by Geographic Region (2020-2025)

4.1.2 Global Gallium Arsenide (GaAs) Solar Cell Annual Revenue by Geographic Region (2020-2025)

4.2 World Historic Gallium Arsenide (GaAs) Solar Cell Market Size by Country/Region (2020-2025)

4.2.1 Global Gallium Arsenide (GaAs) Solar Cell Annual Sales by Country/Region (2020-2025)

4.2.2 Global Gallium Arsenide (GaAs) Solar Cell Annual Revenue by Country/Region (2020-2025)

4.3 Americas Gallium Arsenide (GaAs) Solar Cell Sales Growth

4.4 APAC Gallium Arsenide (GaAs) Solar Cell Sales Growth

4.5 Europe Gallium Arsenide (GaAs) Solar Cell Sales Growth

4.6 Middle East & Africa Gallium Arsenide (GaAs) Solar Cell Sales Growth

5 AMERICAS

5.1 Americas Gallium Arsenide (GaAs) Solar Cell Sales by Country

5.1.1 Americas Gallium Arsenide (GaAs) Solar Cell Sales by Country (2020-2025)

5.1.2 Americas Gallium Arsenide (GaAs) Solar Cell Revenue by Country (2020-2025)

5.2 Americas Gallium Arsenide (GaAs) Solar Cell Sales by Type (2020-2025)

5.3 Americas Gallium Arsenide (GaAs) Solar Cell Sales by Application (2020-2025)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Gallium Arsenide (GaAs) Solar Cell Sales by Region

6.1.1 APAC Gallium Arsenide (GaAs) Solar Cell Sales by Region (2020-2025)

6.1.2 APAC Gallium Arsenide (GaAs) Solar Cell Revenue by Region (2020-2025)

6.2 APAC Gallium Arsenide (GaAs) Solar Cell Sales by Type (2020-2025)

6.3 APAC Gallium Arsenide (GaAs) Solar Cell Sales by Application (2020-2025)

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 Gallium Arsenide (GaAs) Solar Cell by Country

- 7.1.1 Europe Gallium Arsenide (GaAs) Solar Cell Sales by Country (2020-2025)
- 7.1.2 Europe Gallium Arsenide (GaAs) Solar Cell Revenue by Country (2020-2025)
- 7.2 Europe Gallium Arsenide (GaAs) Solar Cell Sales by Type (2020-2025)
- 7.3 Europe Gallium Arsenide (GaAs) Solar Cell Sales by Application (2020-2025)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Gallium Arsenide (GaAs) Solar Cell by Country
 - 8.1.1 Middle East & Africa Gallium Arsenide (GaAs) Solar Cell Sales by Country (2020-2025)
 - 8.1.2 Middle East & Africa Gallium Arsenide (GaAs) Solar Cell Revenue by Country (2020-2025)
- 8.2 Middle East & Africa Gallium Arsenide (GaAs) Solar Cell Sales by Type (2020-2025)
- 8.3 Middle East & Africa Gallium Arsenide (GaAs) Solar Cell Sales by Application (2020-2025)
- 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 Gallium Arsenide (GaAs) Solar Cell
- 10.3 Manufacturing Process Analysis of Gallium Arsenide (GaAs) Solar Cell
- 10.4 Industry Chain Structure of Gallium Arsenide (GaAs) Solar Cell

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Gallium Arsenide (GaAs) Solar Cell Distributors

11.3 Gallium Arsenide (GaAs) Solar Cell Customer

12 WORLD FORECAST REVIEW FOR GALLIUM ARSENIDE (GAAS) SOLAR CELL BY GEOGRAPHIC REGION

12.1 Global Gallium Arsenide (GaAs) Solar Cell Market Size Forecast by Region

12.1.1 Global Gallium Arsenide (GaAs) Solar Cell Forecast by Region (2026-2031)

12.1.2 Global Gallium Arsenide (GaAs) Solar Cell Annual Revenue Forecast by Region (2026-2031)

12.2 Americas Forecast by Country (2026-2031)

12.3 APAC Forecast by Region (2026-2031)

12.4 Europe Forecast by Country (2026-2031)

12.5 Middle East & Africa Forecast by Country (2026-2031)

12.6 Global Gallium Arsenide (GaAs) Solar Cell Forecast by Type (2026-2031)

12.7 Global Gallium Arsenide (GaAs) Solar Cell Forecast by Application (2026-2031)

13 KEY PLAYERS ANALYSIS

13.1 Spectrolab

13.1.1 Spectrolab Company Information

13.1.2 Spectrolab Gallium Arsenide (GaAs) Solar Cell Product Portfolios and Specifications

13.1.3 Spectrolab Gallium Arsenide (GaAs) Solar Cell Sales, Revenue, Price and Gross Margin (2020-2025)

13.1.4 Spectrolab Main Business Overview

13.1.5 Spectrolab Latest Developments

13.2 Rocket Lab

13.2.1 Rocket Lab Company Information

13.2.2 Rocket Lab Gallium Arsenide (GaAs) Solar Cell Product Portfolios and Specifications

13.2.3 Rocket Lab Gallium Arsenide (GaAs) Solar Cell Sales, Revenue, Price and Gross Margin (2020-2025)

13.2.4 Rocket Lab Main Business Overview

- 13.2.5 Rocket Lab Latest Developments
- 13.3 AZUR SPACE
 - 13.3.1 AZUR SPACE Company Information
 - 13.3.2 AZUR SPACE Gallium Arsenide (GaAs) Solar Cell Product Portfolios and Specifications
 - 13.3.3 AZUR SPACE Gallium Arsenide (GaAs) Solar Cell Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.3.4 AZUR SPACE Main Business Overview
 - 13.3.5 AZUR SPACE Latest Developments
- 13.4 Shanghai Institute of Space Power-Sources
 - 13.4.1 Shanghai Institute of Space Power-Sources Company Information
 - 13.4.2 Shanghai Institute of Space Power-Sources Gallium Arsenide (GaAs) Solar Cell Product Portfolios and Specifications
 - 13.4.3 Shanghai Institute of Space Power-Sources Gallium Arsenide (GaAs) Solar Cell Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.4.4 Shanghai Institute of Space Power-Sources Main Business Overview
 - 13.4.5 Shanghai Institute of Space Power-Sources Latest Developments
- 13.5 China Power God
 - 13.5.1 China Power God Company Information
 - 13.5.2 China Power God Gallium Arsenide (GaAs) Solar Cell Product Portfolios and Specifications
 - 13.5.3 China Power God Gallium Arsenide (GaAs) Solar Cell Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.5.4 China Power God Main Business Overview
 - 13.5.5 China Power God Latest Developments
- 13.6 KINGSOON
 - 13.6.1 KINGSOON Company Information
 - 13.6.2 KINGSOON Gallium Arsenide (GaAs) Solar Cell Product Portfolios and Specifications
 - 13.6.3 KINGSOON Gallium Arsenide (GaAs) Solar Cell Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.6.4 KINGSOON Main Business Overview
 - 13.6.5 KINGSOON Latest Developments
- 13.7 Dr Technology
 - 13.7.1 Dr Technology Company Information
 - 13.7.2 Dr Technology Gallium Arsenide (GaAs) Solar Cell Product Portfolios and Specifications
 - 13.7.3 Dr Technology Gallium Arsenide (GaAs) Solar Cell Sales, Revenue, Price and Gross Margin (2020-2025)

- 13.7.4 Dr Technology Main Business Overview
- 13.7.5 Dr Technology Latest Developments
- 13.8 Xiamen Changelight
 - 13.8.1 Xiamen Changelight Company Information
 - 13.8.2 Xiamen Changelight Gallium Arsenide (GaAs) Solar Cell Product Portfolios and Specifications
 - 13.8.3 Xiamen Changelight Gallium Arsenide (GaAs) Solar Cell Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.8.4 Xiamen Changelight Main Business Overview
 - 13.8.5 Xiamen Changelight Latest Developments
- 13.9 Uniwatt
 - 13.9.1 Uniwatt Company Information
 - 13.9.2 Uniwatt Gallium Arsenide (GaAs) Solar Cell Product Portfolios and Specifications
 - 13.9.3 Uniwatt Gallium Arsenide (GaAs) Solar Cell Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.9.4 Uniwatt Main Business Overview
 - 13.9.5 Uniwatt Latest Developments
- 13.10 CESI
 - 13.10.1 CESI Company Information
 - 13.10.2 CESI Gallium Arsenide (GaAs) Solar Cell Product Portfolios and Specifications
 - 13.10.3 CESI Gallium Arsenide (GaAs) Solar Cell Sales, Revenue, Price and Gross Margin (2020-2025)
 - 13.10.4 CESI Main Business Overview
 - 13.10.5 CESI Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Gallium Arsenide (GaAs) Solar Cell Annual Sales CAGR by Geographic Region (2020, 2024 & 2031) & (\$ millions)

Table 2. Gallium Arsenide (GaAs) Solar Cell Annual Sales CAGR by Country/Region (2020, 2024 & 2031) & (\$ millions)

Table 3. Major Players of Single-junction Solar Cell

Table 4. Major Players of Double-junction Solar Cell

Table 5. Major Players of Triple-junction Solar Cell

Table 6. Major Players of Quadruple-junction Solar Cell

Table 7. Global Gallium Arsenide (GaAs) Solar Cell Sales by Type (2020-2025) & (Kw)

Table 8. Global Gallium Arsenide (GaAs) Solar Cell Sales Market Share by Type (2020-2025)

Table 9. Global Gallium Arsenide (GaAs) Solar Cell Revenue by Type (2020-2025) & (\$ million)

Table 10. Global Gallium Arsenide (GaAs) Solar Cell Revenue Market Share by Type (2020-2025)

Table 11. Global Gallium Arsenide (GaAs) Solar Cell Sale Price by Type (2020-2025) & (US\$/Kw)

Table 12. Global Gallium Arsenide (GaAs) Solar Cell Sale by Application (2020-2025) & (Kw)

Table 13. Global Gallium Arsenide (GaAs) Solar Cell Sale Market Share by Application (2020-2025)

Table 14. Global Gallium Arsenide (GaAs) Solar Cell Revenue by Application (2020-2025) & (\$ million)

Table 15. Global Gallium Arsenide (GaAs) Solar Cell Revenue Market Share by Application (2020-2025)

Table 16. Global Gallium Arsenide (GaAs) Solar Cell Sale Price by Application (2020-2025) & (US\$/Kw)

Table 17. Global Gallium Arsenide (GaAs) Solar Cell Sales by Company (2020-2025) & (Kw)

Table 18. Global Gallium Arsenide (GaAs) Solar Cell Sales Market Share by Company (2020-2025)

Table 19. Global Gallium Arsenide (GaAs) Solar Cell Revenue by Company (2020-2025) & (\$ millions)

Table 20. Global Gallium Arsenide (GaAs) Solar Cell Revenue Market Share by Company (2020-2025)

Table 21. Global Gallium Arsenide (GaAs) Solar Cell Sale Price by Company (2020-2025) & (US\$/Kw)
Table 22. Key Manufacturers Gallium Arsenide (GaAs) Solar Cell Producing Area Distribution and Sales Area
Table 23. Players Gallium Arsenide (GaAs) Solar Cell Products Offered
Table 24. Gallium Arsenide (GaAs) Solar Cell Concentration Ratio (CR3, CR5 and CR10) & (2023-2025)
Table 25. New Products and Potential Entrants
Table 26. Market M&A Activity & Strategy
Table 27. Global Gallium Arsenide (GaAs) Solar Cell Sales by Geographic Region (2020-2025) & (Kw)
Table 28. Global Gallium Arsenide (GaAs) Solar Cell Sales Market Share Geographic Region (2020-2025)
Table 29. Global Gallium Arsenide (GaAs) Solar Cell Revenue by Geographic Region (2020-2025) & (\$ millions)
Table 30. Global Gallium Arsenide (GaAs) Solar Cell Revenue Market Share by Geographic Region (2020-2025)
Table 31. Global Gallium Arsenide (GaAs) Solar Cell Sales by Country/Region (2020-2025) & (Kw)
Table 32. Global Gallium Arsenide (GaAs) Solar Cell Sales Market Share by Country/Region (2020-2025)
Table 33. Global Gallium Arsenide (GaAs) Solar Cell Revenue by Country/Region (2020-2025) & (\$ millions)
Table 34. Global Gallium Arsenide (GaAs) Solar Cell Revenue Market Share by Country/Region (2020-2025)
Table 35. Americas Gallium Arsenide (GaAs) Solar Cell Sales by Country (2020-2025) & (Kw)
Table 36. Americas Gallium Arsenide (GaAs) Solar Cell Sales Market Share by Country (2020-2025)
Table 37. Americas Gallium Arsenide (GaAs) Solar Cell Revenue by Country (2020-2025) & (\$ millions)
Table 38. Americas Gallium Arsenide (GaAs) Solar Cell Sales by Type (2020-2025) & (Kw)
Table 39. Americas Gallium Arsenide (GaAs) Solar Cell Sales by Application (2020-2025) & (Kw)
Table 40. APAC Gallium Arsenide (GaAs) Solar Cell Sales by Region (2020-2025) & (Kw)
Table 41. APAC Gallium Arsenide (GaAs) Solar Cell Sales Market Share by Region (2020-2025)

Table 42. APAC Gallium Arsenide (GaAs) Solar Cell Revenue by Region (2020-2025) & (\$ millions)

Table 43. APAC Gallium Arsenide (GaAs) Solar Cell Sales by Type (2020-2025) & (Kw)

Table 44. APAC Gallium Arsenide (GaAs) Solar Cell Sales by Application (2020-2025) & (Kw)

Table 45. Europe Gallium Arsenide (GaAs) Solar Cell Sales by Country (2020-2025) & (Kw)

Table 46. Europe Gallium Arsenide (GaAs) Solar Cell Revenue by Country (2020-2025) & (\$ millions)

Table 47. Europe Gallium Arsenide (GaAs) Solar Cell Sales by Type (2020-2025) & (Kw)

Table 48. Europe Gallium Arsenide (GaAs) Solar Cell Sales by Application (2020-2025) & (Kw)

Table 49. Middle East & Africa Gallium Arsenide (GaAs) Solar Cell Sales by Country (2020-2025) & (Kw)

Table 50. Middle East & Africa Gallium Arsenide (GaAs) Solar Cell Revenue Market Share by Country (2020-2025)

Table 51. Middle East & Africa Gallium Arsenide (GaAs) Solar Cell Sales by Type (2020-2025) & (Kw)

Table 52. Middle East & Africa Gallium Arsenide (GaAs) Solar Cell Sales by Application (2020-2025) & (Kw)

Table 53. Key Market Drivers & Growth Opportunities of Gallium Arsenide (GaAs) Solar Cell

Table 54. Key Market Challenges & Risks of Gallium Arsenide (GaAs) Solar Cell

Table 55. Key Industry Trends of Gallium Arsenide (GaAs) Solar Cell

Table 56. Gallium Arsenide (GaAs) Solar Cell Raw Material

Table 57. Key Suppliers of Raw Materials

Table 58. Gallium Arsenide (GaAs) Solar Cell Distributors List

Table 59. Gallium Arsenide (GaAs) Solar Cell Customer List

Table 60. Global Gallium Arsenide (GaAs) Solar Cell Sales Forecast by Region (2026-2031) & (Kw)

Table 61. Global Gallium Arsenide (GaAs) Solar Cell Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 62. Americas Gallium Arsenide (GaAs) Solar Cell Sales Forecast by Country (2026-2031) & (Kw)

Table 63. Americas Gallium Arsenide (GaAs) Solar Cell Annual Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 64. APAC Gallium Arsenide (GaAs) Solar Cell Sales Forecast by Region (2026-2031) & (Kw)

Table 65. APAC Gallium Arsenide (GaAs) Solar Cell Annual Revenue Forecast by Region (2026-2031) & (\$ millions)

Table 66. Europe Gallium Arsenide (GaAs) Solar Cell Sales Forecast by Country (2026-2031) & (Kw)

Table 67. Europe Gallium Arsenide (GaAs) Solar Cell Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 68. Middle East & Africa Gallium Arsenide (GaAs) Solar Cell Sales Forecast by Country (2026-2031) & (Kw)

Table 69. Middle East & Africa Gallium Arsenide (GaAs) Solar Cell Revenue Forecast by Country (2026-2031) & (\$ millions)

Table 70. Global Gallium Arsenide (GaAs) Solar Cell Sales Forecast by Type (2026-2031) & (Kw)

Table 71. Global Gallium Arsenide (GaAs) Solar Cell Revenue Forecast by Type (2026-2031) & (\$ millions)

Table 72. Global Gallium Arsenide (GaAs) Solar Cell Sales Forecast by Application (2026-2031) & (Kw)

Table 73. Global Gallium Arsenide (GaAs) Solar Cell Revenue Forecast by Application (2026-2031) & (\$ millions)

Table 74. Spectrolab Basic Information, Gallium Arsenide (GaAs) Solar Cell Manufacturing Base, Sales Area and Its Competitors

Table 75. Spectrolab Gallium Arsenide (GaAs) Solar Cell Product Portfolios and Specifications

Table 76. Spectrolab Gallium Arsenide (GaAs) Solar Cell Sales (Kw), Revenue (\$ Million), Price (US\$/Kw) and Gross Margin (2020-2025)

Table 77. Spectrolab Main Business

Table 78. Spectrolab Latest Developments

Table 79. Rocket Lab Basic Information, Gallium Arsenide (GaAs) Solar Cell Manufacturing Base, Sales Area and Its Competitors

Table 80. Rocket Lab Gallium Arsenide (GaAs) Solar Cell Product Portfolios and Specifications

Table 81. Rocket Lab Gallium Arsenide (GaAs) Solar Cell Sales (Kw), Revenue (\$ Million), Price (US\$/Kw) and Gross Margin (2020-2025)

Table 82. Rocket Lab Main Business

Table 83. Rocket Lab Latest Developments

Table 84. AZUR SPACE Basic Information, Gallium Arsenide (GaAs) Solar Cell Manufacturing Base, Sales Area and Its Competitors

Table 85. AZUR SPACE Gallium Arsenide (GaAs) Solar Cell Product Portfolios and Specifications

Table 86. AZUR SPACE Gallium Arsenide (GaAs) Solar Cell Sales (Kw), Revenue (\$

Million), Price (US\$/Kw) and Gross Margin (2020-2025)

Table 87. AZUR SPACE Main Business

Table 88. AZUR SPACE Latest Developments

Table 89. Shanghai Institute of Space Power-Sources Basic Information, Gallium Arsenide (GaAs) Solar Cell Manufacturing Base, Sales Area and Its Competitors

Table 90. Shanghai Institute of Space Power-Sources Gallium Arsenide (GaAs) Solar Cell Product Portfolios and Specifications

Table 91. Shanghai Institute of Space Power-Sources Gallium Arsenide (GaAs) Solar Cell Sales (Kw), Revenue (\$ Million), Price (US\$/Kw) and Gross Margin (2020-2025)

Table 92. Shanghai Institute of Space Power-Sources Main Business

Table 93. Shanghai Institute of Space Power-Sources Latest Developments

Table 94. China Power God Basic Information, Gallium Arsenide (GaAs) Solar Cell Manufacturing Base, Sales Area and Its Competitors

Table 95. China Power God Gallium Arsenide (GaAs) Solar Cell Product Portfolios and Specifications

Table 96. China Power God Gallium Arsenide (GaAs) Solar Cell Sales (Kw), Revenue (\$ Million), Price (US\$/Kw) and Gross Margin (2020-2025)

Table 97. China Power God Main Business

Table 98. China Power God Latest Developments

Table 99. KINGSOON Basic Information, Gallium Arsenide (GaAs) Solar Cell Manufacturing Base, Sales Area and Its Competitors

Table 100. KINGSOON Gallium Arsenide (GaAs) Solar Cell Product Portfolios and Specifications

Table 101. KINGSOON Gallium Arsenide (GaAs) Solar Cell Sales (Kw), Revenue (\$ Million), Price (US\$/Kw) and Gross Margin (2020-2025)

Table 102. KINGSOON Main Business

Table 103. KINGSOON Latest Developments

Table 104. Dr Technology Basic Information, Gallium Arsenide (GaAs) Solar Cell Manufacturing Base, Sales Area and Its Competitors

Table 105. Dr Technology Gallium Arsenide (GaAs) Solar Cell Product Portfolios and Specifications

Table 106. Dr Technology Gallium Arsenide (GaAs) Solar Cell Sales (Kw), Revenue (\$ Million), Price (US\$/Kw) and Gross Margin (2020-2025)

Table 107. Dr Technology Main Business

Table 108. Dr Technology Latest Developments

Table 109. Xiamen Changelight Basic Information, Gallium Arsenide (GaAs) Solar Cell Manufacturing Base, Sales Area and Its Competitors

Table 110. Xiamen Changelight Gallium Arsenide (GaAs) Solar Cell Product Portfolios and Specifications

Table 111. Xiamen Changelight Gallium Arsenide (GaAs) Solar Cell Sales (Kw), Revenue (\$ Million), Price (US\$/Kw) and Gross Margin (2020-2025)

Table 112. Xiamen Changelight Main Business

Table 113. Xiamen Changelight Latest Developments

Table 114. Uniwatt Basic Information, Gallium Arsenide (GaAs) Solar Cell Manufacturing Base, Sales Area and Its Competitors

Table 115. Uniwatt Gallium Arsenide (GaAs) Solar Cell Product Portfolios and Specifications

Table 116. Uniwatt Gallium Arsenide (GaAs) Solar Cell Sales (Kw), Revenue (\$ Million), Price (US\$/Kw) and Gross Margin (2020-2025)

Table 117. Uniwatt Main Business

Table 118. Uniwatt Latest Developments

Table 119. CESI Basic Information, Gallium Arsenide (GaAs) Solar Cell Manufacturing Base, Sales Area and Its Competitors

Table 120. CESI Gallium Arsenide (GaAs) Solar Cell Product Portfolios and Specifications

Table 121. CESI Gallium Arsenide (GaAs) Solar Cell Sales (Kw), Revenue (\$ Million), Price (US\$/Kw) and Gross Margin (2020-2025)

Table 122. CESI Main Business

Table 123. CESI Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Gallium Arsenide (GaAs) Solar Cell
- Figure 2. Gallium Arsenide (GaAs) Solar Cell Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Gallium Arsenide (GaAs) Solar Cell Sales Growth Rate 2020-2031 (Kw)
- Figure 7. Global Gallium Arsenide (GaAs) Solar Cell Revenue Growth Rate 2020-2031 (\$ millions)
- Figure 8. Gallium Arsenide (GaAs) Solar Cell Sales by Geographic Region (2020, 2024 & 2031) & (\$ millions)
- Figure 9. Gallium Arsenide (GaAs) Solar Cell Sales Market Share by Country/Region (2024)
- Figure 10. Gallium Arsenide (GaAs) Solar Cell Sales Market Share by Country/Region (2020, 2024 & 2031)
- Figure 11. Product Picture of Single-junction Solar Cell
- Figure 12. Product Picture of Double-junction Solar Cell
- Figure 13. Product Picture of Triple-junction Solar Cell
- Figure 14. Product Picture of Quadruple-junction Solar Cell
- Figure 15. Global Gallium Arsenide (GaAs) Solar Cell Sales Market Share by Type in 2025
- Figure 16. Global Gallium Arsenide (GaAs) Solar Cell Revenue Market Share by Type (2020-2025)
- Figure 17. Gallium Arsenide (GaAs) Solar Cell Consumed in Aerospace
- Figure 18. Global Gallium Arsenide (GaAs) Solar Cell Market: Aerospace (2020-2025) & (Kw)
- Figure 19. Gallium Arsenide (GaAs) Solar Cell Consumed in Military
- Figure 20. Global Gallium Arsenide (GaAs) Solar Cell Market: Military (2020-2025) & (Kw)
- Figure 21. Gallium Arsenide (GaAs) Solar Cell Consumed in Civilian
- Figure 22. Global Gallium Arsenide (GaAs) Solar Cell Market: Civilian (2020-2025) & (Kw)
- Figure 23. Global Gallium Arsenide (GaAs) Solar Cell Sale Market Share by Application (2024)
- Figure 24. Global Gallium Arsenide (GaAs) Solar Cell Revenue Market Share by

Application in 2025

Figure 25. Gallium Arsenide (GaAs) Solar Cell Sales by Company in 2025 (Kw)

Figure 26. Global Gallium Arsenide (GaAs) Solar Cell Sales Market Share by Company in 2025

Figure 27. Gallium Arsenide (GaAs) Solar Cell Revenue by Company in 2025 (\$ millions)

Figure 28. Global Gallium Arsenide (GaAs) Solar Cell Revenue Market Share by Company in 2025

Figure 29. Global Gallium Arsenide (GaAs) Solar Cell Sales Market Share by Geographic Region (2020-2025)

Figure 30. Global Gallium Arsenide (GaAs) Solar Cell Revenue Market Share by Geographic Region in 2025

Figure 31. Americas Gallium Arsenide (GaAs) Solar Cell Sales 2020-2025 (Kw)

Figure 32. Americas Gallium Arsenide (GaAs) Solar Cell Revenue 2020-2025 (\$ millions)

Figure 33. APAC Gallium Arsenide (GaAs) Solar Cell Sales 2020-2025 (Kw)

Figure 34. APAC Gallium Arsenide (GaAs) Solar Cell Revenue 2020-2025 (\$ millions)

Figure 35. Europe Gallium Arsenide (GaAs) Solar Cell Sales 2020-2025 (Kw)

Figure 36. Europe Gallium Arsenide (GaAs) Solar Cell Revenue 2020-2025 (\$ millions)

Figure 37. Middle East & Africa Gallium Arsenide (GaAs) Solar Cell Sales 2020-2025 (Kw)

Figure 38. Middle East & Africa Gallium Arsenide (GaAs) Solar Cell Revenue 2020-2025 (\$ millions)

Figure 39. Americas Gallium Arsenide (GaAs) Solar Cell Sales Market Share by Country in 2025

Figure 40. Americas Gallium Arsenide (GaAs) Solar Cell Revenue Market Share by Country (2020-2025)

Figure 41. Americas Gallium Arsenide (GaAs) Solar Cell Sales Market Share by Type (2020-2025)

Figure 42. Americas Gallium Arsenide (GaAs) Solar Cell Sales Market Share by Application (2020-2025)

Figure 43. United States Gallium Arsenide (GaAs) Solar Cell Revenue Growth 2020-2025 (\$ millions)

Figure 44. Canada Gallium Arsenide (GaAs) Solar Cell Revenue Growth 2020-2025 (\$ millions)

Figure 45. Mexico Gallium Arsenide (GaAs) Solar Cell Revenue Growth 2020-2025 (\$ millions)

Figure 46. Brazil Gallium Arsenide (GaAs) Solar Cell Revenue Growth 2020-2025 (\$ millions)

Figure 47. APAC Gallium Arsenide (GaAs) Solar Cell Sales Market Share by Region in 2025

Figure 48. APAC Gallium Arsenide (GaAs) Solar Cell Revenue Market Share by Region (2020-2025)

Figure 49. APAC Gallium Arsenide (GaAs) Solar Cell Sales Market Share by Type (2020-2025)

Figure 50. APAC Gallium Arsenide (GaAs) Solar Cell Sales Market Share by Application (2020-2025)

Figure 51. China Gallium Arsenide (GaAs) Solar Cell Revenue Growth 2020-2025 (\$ millions)

Figure 52. Japan Gallium Arsenide (GaAs) Solar Cell Revenue Growth 2020-2025 (\$ millions)

Figure 53. South Korea Gallium Arsenide (GaAs) Solar Cell Revenue Growth 2020-2025 (\$ millions)

Figure 54. Southeast Asia Gallium Arsenide (GaAs) Solar Cell Revenue Growth 2020-2025 (\$ millions)

Figure 55. India Gallium Arsenide (GaAs) Solar Cell Revenue Growth 2020-2025 (\$ millions)

Figure 56. Australia Gallium Arsenide (GaAs) Solar Cell Revenue Growth 2020-2025 (\$ millions)

Figure 57. China Taiwan Gallium Arsenide (GaAs) Solar Cell Revenue Growth 2020-2025 (\$ millions)

Figure 58. Europe Gallium Arsenide (GaAs) Solar Cell Sales Market Share by Country in 2025

Figure 59. Europe Gallium Arsenide (GaAs) Solar Cell Revenue Market Share by Country (2020-2025)

Figure 60. Europe Gallium Arsenide (GaAs) Solar Cell Sales Market Share by Type (2020-2025)

Figure 61. Europe Gallium Arsenide (GaAs) Solar Cell Sales Market Share by Application (2020-2025)

Figure 62. Germany Gallium Arsenide (GaAs) Solar Cell Revenue Growth 2020-2025 (\$ millions)

Figure 63. France Gallium Arsenide (GaAs) Solar Cell Revenue Growth 2020-2025 (\$ millions)

Figure 64. UK Gallium Arsenide (GaAs) Solar Cell Revenue Growth 2020-2025 (\$ millions)

Figure 65. Italy Gallium Arsenide (GaAs) Solar Cell Revenue Growth 2020-2025 (\$ millions)

Figure 66. Russia Gallium Arsenide (GaAs) Solar Cell Revenue Growth 2020-2025 (\$

millions)

Figure 67. Middle East & Africa Gallium Arsenide (GaAs) Solar Cell Sales Market Share by Country (2020-2025)

Figure 68. Middle East & Africa Gallium Arsenide (GaAs) Solar Cell Sales Market Share by Type (2020-2025)

Figure 69. Middle East & Africa Gallium Arsenide (GaAs) Solar Cell Sales Market Share by Application (2020-2025)

Figure 70. Egypt Gallium Arsenide (GaAs) Solar Cell Revenue Growth 2020-2025 (\$ millions)

Figure 71. South Africa Gallium Arsenide (GaAs) Solar Cell Revenue Growth 2020-2025 (\$ millions)

Figure 72. Israel Gallium Arsenide (GaAs) Solar Cell Revenue Growth 2020-2025 (\$ millions)

Figure 73. Turkey Gallium Arsenide (GaAs) Solar Cell Revenue Growth 2020-2025 (\$ millions)

Figure 74. GCC Countries Gallium Arsenide (GaAs) Solar Cell Revenue Growth 2020-2025 (\$ millions)

Figure 75. Manufacturing Cost Structure Analysis of Gallium Arsenide (GaAs) Solar Cell in 2025

Figure 76. Manufacturing Process Analysis of Gallium Arsenide (GaAs) Solar Cell

Figure 77. Industry Chain Structure of Gallium Arsenide (GaAs) Solar Cell

Figure 78. Channels of Distribution

Figure 79. Global Gallium Arsenide (GaAs) Solar Cell Sales Market Forecast by Region (2026-2031)

Figure 80. Global Gallium Arsenide (GaAs) Solar Cell Revenue Market Share Forecast by Region (2026-2031)

Figure 81. Global Gallium Arsenide (GaAs) Solar Cell Sales Market Share Forecast by Type (2026-2031)

Figure 82. Global Gallium Arsenide (GaAs) Solar Cell Revenue Market Share Forecast by Type (2026-2031)

Figure 83. Global Gallium Arsenide (GaAs) Solar Cell Sales Market Share Forecast by Application (2026-2031)

Figure 84. Global Gallium Arsenide (GaAs) Solar Cell Revenue Market Share Forecast by Application (2026-2031)

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