

# Global Triple-junction GaAs Solar Cell for Space Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G2AFEE421077EN.html>

Date: June 2026

Pages: 115

Price: US\$ 4,480.00 (Single User License)

ID: G2AFEE421077EN

## Abstracts

The global Triple-junction GaAs Solar Cell for Space market size is expected to reach \$ 23815 million by 2032, rising at a market growth of 6.9% CAGR during the forecast period (2026-2032).

Space-grade triple-junction Gallium Arsenide (GaAs) solar cells are high-efficiency, multi-junction photovoltaic cells composed of three layers of GaAs semiconductors with distinct bandgaps. Characterized by extremely high photoelectric conversion efficiency and exceptional radiation resistance, they are primarily utilized in the power systems of satellites, deep-space probes, and spacecraft.

The upstream sector comprises suppliers of high-purity GaAs ingots, epitaxial wafers, and precision chemical materials; the downstream sector consists of satellite manufacturers, aerospace system integrators, and high-end defense energy equipment enterprises responsible for cell packaging, module assembly, and aerospace system deployment.

The global market for triple-junction gaas solar cell for space features a unit price of \$307 per watt, with global sales volume standing at approximately 48,000 kilowatts; annual production capacity ranges from 50,000 to 70,000 kilowatts, and the industry profit margin is approximately 10%.

Looking ahead, the market for triple-junction GaAs solar cells will continue to be driven by demand from satellite constellations, deep-space exploration missions, and high-performance unmanned spacecraft. High conversion efficiency, lightweight design, and radiation resistance will emerge as key competitive differentiators. With advancements in epitaxial growth and packaging technologies?coupled with enhanced capabilities for

mass production?the cost per unit of power output is expected to decline. Industry concentration is projected to increase further as leading enterprises consolidate their market positions through R&D innovation, rigorous reliability validation, and aerospace certification. Concurrently, the adoption of green manufacturing practices, recycling initiatives, and sustainable materials will become a key focus for industry development, providing the aerospace sector and high-end energy systems with more reliable and enduring photovoltaic power supply solutions.

This report studies the global Triple-junction GaAs Solar Cell for Space production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Triple-junction GaAs Solar Cell for Space 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 Triple-junction GaAs Solar Cell for Space that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Triple-junction GaAs Solar Cell for Space total production and demand, 2021-2032, (KW)

Global Triple-junction GaAs Solar Cell for Space total production value, 2021-2032, (USD Million)

Global Triple-junction GaAs Solar Cell for Space production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (KW), (based on production site)

Global Triple-junction GaAs Solar Cell for Space consumption by region & country, CAGR, 2021-2032 & (KW)

U.S. VS China: Triple-junction GaAs Solar Cell for Space domestic production, consumption, key domestic manufacturers and share

Global Triple-junction GaAs Solar Cell for Space production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (KW)

Global Triple-junction GaAs Solar Cell for Space production by Type, production, value, CAGR, 2021-2032, (USD Million) & (KW)

Global Triple-junction GaAs Solar Cell for Space production by Application, production, value, CAGR, 2021-2032, (USD Million) & (KW)

This report profiles key players in the global Triple-junction GaAs Solar Cell for Space 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 Spectrolab, AZUR SPACE, Nanchang Kaixun Photoelectric, DR Technology, Shanghai Institute of Space Power-Sources, Xiamen Changelight, Uniwatt Technology, China Power Technology, CESI, 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 Triple-junction GaAs Solar Cell for Space market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (KW) and average price (US\$/W) 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 Triple-junction GaAs Solar Cell for Space Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Triple-junction GaAs Solar Cell for Space Market, Segmentation by Type:

Flip-chip Solar Cells

Conventional Solar Cells

Global Triple-junction GaAs Solar Cell for Space Market, Segmentation by Structure and Series Configuration:

Series-Connected Multi-Junction Cells

Stacked Multi-Junction Cells

Global Triple-junction GaAs Solar Cell for Space Market, Segmentation by Packaging Formats:

Bare Die

Packaged Assembly

Lightweight Packaging

Global Triple-junction GaAs Solar Cell for Space Market, Segmentation by Application:

Satellite

Space Exploration

Space Science Experiment

Others

Companies Profiled:

Spectrolab

AZUR SPACE

Nanchang Kaixun Photoelectric

DR Technology

Shanghai Institute of Space Power-Sources

Xiamen Changelight

Uniwatt Technology

China Power Technology

CESI

#### Key Questions Answered:

1. How big is the global Triple-junction GaAs Solar Cell for Space market?
2. What is the demand of the global Triple-junction GaAs Solar Cell for Space market?
3. What is the year over year growth of the global Triple-junction GaAs Solar Cell for Space market?
4. What is the production and production value of the global Triple-junction GaAs Solar Cell for Space market?
5. Who are the key producers in the global Triple-junction GaAs Solar Cell for Space market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Triple-junction GaAs Solar Cell for Space Introduction
- 1.2 World Triple-junction GaAs Solar Cell for Space Supply & Forecast
  - 1.2.1 World Triple-junction GaAs Solar Cell for Space Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Triple-junction GaAs Solar Cell for Space Production (2021-2032)
  - 1.2.3 World Triple-junction GaAs Solar Cell for Space Pricing Trends (2021-2032)
- 1.3 World Triple-junction GaAs Solar Cell for Space Production by Region (Based on Production Site)
  - 1.3.1 World Triple-junction GaAs Solar Cell for Space Production Value by Region (2021-2032)
  - 1.3.2 World Triple-junction GaAs Solar Cell for Space Production by Region (2021-2032)
  - 1.3.3 World Triple-junction GaAs Solar Cell for Space Average Price by Region (2021-2032)
  - 1.3.4 North America Triple-junction GaAs Solar Cell for Space Production (2021-2032)
  - 1.3.5 Europe Triple-junction GaAs Solar Cell for Space Production (2021-2032)
  - 1.3.6 China Triple-junction GaAs Solar Cell for Space Production (2021-2032)
  - 1.3.7 Japan Triple-junction GaAs Solar Cell for Space Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Triple-junction GaAs Solar Cell for Space Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Triple-junction GaAs Solar Cell for Space Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Triple-junction GaAs Solar Cell for Space Demand (2021-2032)
- 2.2 World Triple-junction GaAs Solar Cell for Space Consumption by Region
  - 2.2.1 World Triple-junction GaAs Solar Cell for Space Consumption by Region (2021-2026)
  - 2.2.2 World Triple-junction GaAs Solar Cell for Space Consumption Forecast by Region (2027-2032)
- 2.3 United States Triple-junction GaAs Solar Cell for Space Consumption (2021-2032)
- 2.4 China Triple-junction GaAs Solar Cell for Space Consumption (2021-2032)
- 2.5 Europe Triple-junction GaAs Solar Cell for Space Consumption (2021-2032)
- 2.6 Japan Triple-junction GaAs Solar Cell for Space Consumption (2021-2032)

- 2.7 South Korea Triple-junction GaAs Solar Cell for Space Consumption (2021-2032)
- 2.8 ASEAN Triple-junction GaAs Solar Cell for Space Consumption (2021-2032)
- 2.9 India Triple-junction GaAs Solar Cell for Space Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

- 3.1 World Triple-junction GaAs Solar Cell for Space Production Value by Manufacturer (2021-2026)
- 3.2 World Triple-junction GaAs Solar Cell for Space Production by Manufacturer (2021-2026)
- 3.3 World Triple-junction GaAs Solar Cell for Space Average Price by Manufacturer (2021-2026)
- 3.4 Triple-junction GaAs Solar Cell for Space Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
- 3.5.1 Global Triple-junction GaAs Solar Cell for Space Industry Rank of Major Manufacturers
- 3.5.2 Global Concentration Ratios (CR4) for Triple-junction GaAs Solar Cell for Space in 2025
- 3.5.3 Global Concentration Ratios (CR8) for Triple-junction GaAs Solar Cell for Space in 2025
- 3.6 Triple-junction GaAs Solar Cell for Space Market: Overall Company Footprint Analysis
  - 3.6.1 Triple-junction GaAs Solar Cell for Space Market: Region Footprint
  - 3.6.2 Triple-junction GaAs Solar Cell for Space Market: Company Product Type Footprint
  - 3.6.3 Triple-junction GaAs Solar Cell for Space 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: Triple-junction GaAs Solar Cell for Space Production Value Comparison
  - 4.1.1 United States VS China: Triple-junction GaAs Solar Cell for Space Production



## Value Comparison (2021 & 2025 & 2032)

### 4.1.2 United States VS China: Triple-junction GaAs Solar Cell for Space Production

#### Value Market Share Comparison (2021 & 2025 & 2032)

### 4.2 United States VS China: Triple-junction GaAs Solar Cell for Space Production Comparison

#### 4.2.1 United States VS China: Triple-junction GaAs Solar Cell for Space Production Comparison (2021 & 2025 & 2032)

#### 4.2.2 United States VS China: Triple-junction GaAs Solar Cell for Space Production Market Share Comparison (2021 & 2025 & 2032)

### 4.3 United States VS China: Triple-junction GaAs Solar Cell for Space Consumption Comparison

#### 4.3.1 United States VS China: Triple-junction GaAs Solar Cell for Space Consumption Comparison (2021 & 2025 & 2032)

#### 4.3.2 United States VS China: Triple-junction GaAs Solar Cell for Space Consumption Market Share Comparison (2021 & 2025 & 2032)

### 4.4 United States Based Triple-junction GaAs Solar Cell for Space Manufacturers and Market Share, 2021-2026

#### 4.4.1 United States Based Triple-junction GaAs Solar Cell for Space Manufacturers, Headquarters and Production Site (States, Country)

#### 4.4.2 United States Based Manufacturers Triple-junction GaAs Solar Cell for Space Production Value (2021-2026)

#### 4.4.3 United States Based Manufacturers Triple-junction GaAs Solar Cell for Space Production (2021-2026)

### 4.5 China Based Triple-junction GaAs Solar Cell for Space Manufacturers and Market Share

#### 4.5.1 China Based Triple-junction GaAs Solar Cell for Space Manufacturers, Headquarters and Production Site (Province, Country)

#### 4.5.2 China Based Manufacturers Triple-junction GaAs Solar Cell for Space Production Value (2021-2026)

#### 4.5.3 China Based Manufacturers Triple-junction GaAs Solar Cell for Space Production (2021-2026)

### 4.6 Rest of World Based Triple-junction GaAs Solar Cell for Space Manufacturers and Market Share, 2021-2026

#### 4.6.1 Rest of World Based Triple-junction GaAs Solar Cell for Space Manufacturers, Headquarters and Production Site (State, Country)

#### 4.6.2 Rest of World Based Manufacturers Triple-junction GaAs Solar Cell for Space Production Value (2021-2026)

#### 4.6.3 Rest of World Based Manufacturers Triple-junction GaAs Solar Cell for Space Production (2021-2026)



## **5 MARKET ANALYSIS BY TYPE**

5.1 World Triple-junction GaAs Solar Cell for Space Market Size Overview by Type:  
2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Flip-chip Solar Cells

5.2.2 Conventional Solar Cells

5.3 Market Segment by Type

5.3.1 World Triple-junction GaAs Solar Cell for Space Production by Type (2021-2032)

5.3.2 World Triple-junction GaAs Solar Cell for Space Production Value by Type  
(2021-2032)

5.3.3 World Triple-junction GaAs Solar Cell for Space Average Price by Type  
(2021-2032)

## **6 MARKET ANALYSIS BY STRUCTURE AND SERIES CONFIGURATION**

6.1 World Triple-junction GaAs Solar Cell for Space Market Size Overview by Structure  
and Series Configuration: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Structure and Series Configuration

6.2.1 Series-Connected Multi-Junction Cells

6.2.2 Stacked Multi-Junction Cells

6.3 Market Segment by Structure and Series Configuration

6.3.1 World Triple-junction GaAs Solar Cell for Space Production by Structure and  
Series Configuration (2021-2032)

6.3.2 World Triple-junction GaAs Solar Cell for Space Production Value by Structure  
and Series Configuration (2021-2032)

6.3.3 World Triple-junction GaAs Solar Cell for Space Average Price by Structure and  
Series Configuration (2021-2032)

## **7 MARKET ANALYSIS BY PACKAGING FORMATS**

7.1 World Triple-junction GaAs Solar Cell for Space Market Size Overview by  
Packaging Formats: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Packaging Formats

7.2.1 Bare Die

7.2.2 Packaged Assembly

7.2.3 Lightweight Packaging

7.3 Market Segment by Packaging Formats

7.3.1 World Triple-junction GaAs Solar Cell for Space Production by Packaging Formats (2021-2032)

7.3.2 World Triple-junction GaAs Solar Cell for Space Production Value by Packaging Formats (2021-2032)

7.3.3 World Triple-junction GaAs Solar Cell for Space Average Price by Packaging Formats (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World Triple-junction GaAs Solar Cell for Space Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Satellite

8.2.2 Space Exploration

8.2.3 Space Science Experiment

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World Triple-junction GaAs Solar Cell for Space Production by Application (2021-2032)

8.3.2 World Triple-junction GaAs Solar Cell for Space Production Value by Application (2021-2032)

8.3.3 World Triple-junction GaAs Solar Cell for Space Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

9.1 Spectrolab

9.1.1 Spectrolab Details

9.1.2 Spectrolab Major Business

9.1.3 Spectrolab Triple-junction GaAs Solar Cell for Space Product and Services

9.1.4 Spectrolab Triple-junction GaAs Solar Cell for Space Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Spectrolab Recent Developments/Updates

9.1.6 Spectrolab Competitive Strengths & Weaknesses

9.2 AZUR SPACE

9.2.1 AZUR SPACE Details

9.2.2 AZUR SPACE Major Business

9.2.3 AZUR SPACE Triple-junction GaAs Solar Cell for Space Product and Services

9.2.4 AZUR SPACE Triple-junction GaAs Solar Cell for Space Production, Price, Value,

## Gross Margin and Market Share (2021-2026)

### 9.2.5 AZUR SPACE Recent Developments/Updates

### 9.2.6 AZUR SPACE Competitive Strengths & Weaknesses

## 9.3 Nanchang Kaixun Photoelectric

### 9.3.1 Nanchang Kaixun Photoelectric Details

### 9.3.2 Nanchang Kaixun Photoelectric Major Business

### 9.3.3 Nanchang Kaixun Photoelectric Triple-junction GaAs Solar Cell for Space Product and Services

### 9.3.4 Nanchang Kaixun Photoelectric Triple-junction GaAs Solar Cell for Space Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.3.5 Nanchang Kaixun Photoelectric Recent Developments/Updates

### 9.3.6 Nanchang Kaixun Photoelectric Competitive Strengths & Weaknesses

## 9.4 DR Technology

### 9.4.1 DR Technology Details

### 9.4.2 DR Technology Major Business

### 9.4.3 DR Technology Triple-junction GaAs Solar Cell for Space Product and Services

### 9.4.4 DR Technology Triple-junction GaAs Solar Cell for Space Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.4.5 DR Technology Recent Developments/Updates

### 9.4.6 DR Technology Competitive Strengths & Weaknesses

## 9.5 Shanghai Institute of Space Power-Sources

### 9.5.1 Shanghai Institute of Space Power-Sources Details

### 9.5.2 Shanghai Institute of Space Power-Sources Major Business

### 9.5.3 Shanghai Institute of Space Power-Sources Triple-junction GaAs Solar Cell for Space Product and Services

### 9.5.4 Shanghai Institute of Space Power-Sources Triple-junction GaAs Solar Cell for Space Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.5.5 Shanghai Institute of Space Power-Sources Recent Developments/Updates

### 9.5.6 Shanghai Institute of Space Power-Sources Competitive Strengths & Weaknesses

## 9.6 Xiamen Changelight

### 9.6.1 Xiamen Changelight Details

### 9.6.2 Xiamen Changelight Major Business

### 9.6.3 Xiamen Changelight Triple-junction GaAs Solar Cell for Space Product and Services

### 9.6.4 Xiamen Changelight Triple-junction GaAs Solar Cell for Space Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.6.5 Xiamen Changelight Recent Developments/Updates

### 9.6.6 Xiamen Changelight Competitive Strengths & Weaknesses

## 9.7 Uniwatt Technology

#### 9.7.1 Uniwatt Technology Details

#### 9.7.2 Uniwatt Technology Major Business

#### 9.7.3 Uniwatt Technology Triple-junction GaAs Solar Cell for Space Product and Services

#### 9.7.4 Uniwatt Technology Triple-junction GaAs Solar Cell for Space Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 9.7.5 Uniwatt Technology Recent Developments/Updates

#### 9.7.6 Uniwatt Technology Competitive Strengths & Weaknesses

#### 9.8 China Power Technology

#### 9.8.1 China Power Technology Details

#### 9.8.2 China Power Technology Major Business

#### 9.8.3 China Power Technology Triple-junction GaAs Solar Cell for Space Product and Services

#### 9.8.4 China Power Technology Triple-junction GaAs Solar Cell for Space Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 9.8.5 China Power Technology Recent Developments/Updates

#### 9.8.6 China Power Technology Competitive Strengths & Weaknesses

#### 9.9 CESI

#### 9.9.1 CESI Details

#### 9.9.2 CESI Major Business

#### 9.9.3 CESI Triple-junction GaAs Solar Cell for Space Product and Services

#### 9.9.4 CESI Triple-junction GaAs Solar Cell for Space Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 9.9.5 CESI Recent Developments/Updates

#### 9.9.6 CESI Competitive Strengths & Weaknesses

### **10 INDUSTRY CHAIN ANALYSIS**

#### 10.1 Triple-junction GaAs Solar Cell for Space Industry Chain

#### 10.2 Triple-junction GaAs Solar Cell for Space Upstream Analysis

#### 10.2.1 Triple-junction GaAs Solar Cell for Space Core Raw Materials

#### 10.2.2 Main Manufacturers of Triple-junction GaAs Solar Cell for Space Core Raw Materials

#### 10.3 Midstream Analysis

#### 10.4 Downstream Analysis

#### 10.5 Triple-junction GaAs Solar Cell for Space Production Mode

#### 10.6 Triple-junction GaAs Solar Cell for Space Procurement Model

#### 10.7 Triple-junction GaAs Solar Cell for Space Industry Sales Model and Sales Channels

10.7.1 Triple-junction GaAs Solar Cell for Space Sales Model

10.7.2 Triple-junction GaAs Solar Cell for Space 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 Triple-junction GaAs Solar Cell for Space Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Triple-junction GaAs Solar Cell for Space Production Value by Region (2021-2026) & (USD Million)

Table 3. World Triple-junction GaAs Solar Cell for Space Production Value by Region (2027-2032) & (USD Million)

Table 4. World Triple-junction GaAs Solar Cell for Space Production Value Market Share by Region (2021-2026)

Table 5. World Triple-junction GaAs Solar Cell for Space Production Value Market Share by Region (2027-2032)

Table 6. World Triple-junction GaAs Solar Cell for Space Production by Region (2021-2026) & (KW)

Table 7. World Triple-junction GaAs Solar Cell for Space Production by Region (2027-2032) & (KW)

Table 8. World Triple-junction GaAs Solar Cell for Space Production Market Share by Region (2021-2026)

Table 9. World Triple-junction GaAs Solar Cell for Space Production Market Share by Region (2027-2032)

Table 10. World Triple-junction GaAs Solar Cell for Space Average Price by Region (2021-2026) & (US\$/W)

Table 11. World Triple-junction GaAs Solar Cell for Space Average Price by Region (2027-2032) & (US\$/W)

Table 12. Triple-junction GaAs Solar Cell for Space Major Market Trends

Table 13. World Triple-junction GaAs Solar Cell for Space Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (KW)

Table 14. World Triple-junction GaAs Solar Cell for Space Consumption by Region (2021-2026) & (KW)

Table 15. World Triple-junction GaAs Solar Cell for Space Consumption Forecast by Region (2027-2032) & (KW)

Table 16. World Triple-junction GaAs Solar Cell for Space Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Triple-junction GaAs Solar Cell for Space Producers in 2025

Table 18. World Triple-junction GaAs Solar Cell for Space Production by Manufacturer (2021-2026) & (KW)

Table 19. Production Market Share of Key Triple-junction GaAs Solar Cell for Space Producers in 2025

Table 20. World Triple-junction GaAs Solar Cell for Space Average Price by Manufacturer (2021-2026) & (US\$/W)

Table 21. Global Triple-junction GaAs Solar Cell for Space Company Evaluation Quadrant

Table 22. World Triple-junction GaAs Solar Cell for Space Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Triple-junction GaAs Solar Cell for Space Production Site of Key Manufacturer

Table 24. Triple-junction GaAs Solar Cell for Space Market: Company Product Type Footprint

Table 25. Triple-junction GaAs Solar Cell for Space Market: Company Product Application Footprint

Table 26. Triple-junction GaAs Solar Cell for Space Competitive Factors

Table 27. Triple-junction GaAs Solar Cell for Space New Entrant and Capacity Expansion Plans

Table 28. Triple-junction GaAs Solar Cell for Space Mergers & Acquisitions Activity

Table 29. United States VS China Triple-junction GaAs Solar Cell for Space Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Triple-junction GaAs Solar Cell for Space Production Comparison, (2021 & 2025 & 2032) & (KW)

Table 31. United States VS China Triple-junction GaAs Solar Cell for Space Consumption Comparison, (2021 & 2025 & 2032) & (KW)

Table 32. United States Based Triple-junction GaAs Solar Cell for Space Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Triple-junction GaAs Solar Cell for Space Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Triple-junction GaAs Solar Cell for Space Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Triple-junction GaAs Solar Cell for Space Production (2021-2026) & (KW)

Table 36. United States Based Manufacturers Triple-junction GaAs Solar Cell for Space Production Market Share (2021-2026)

Table 37. China Based Triple-junction GaAs Solar Cell for Space Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Triple-junction GaAs Solar Cell for Space Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Triple-junction GaAs Solar Cell for Space



## Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Triple-junction GaAs Solar Cell for Space Production, (2021-2026) & (KW)

Table 41. China Based Manufacturers Triple-junction GaAs Solar Cell for Space Production Market Share (2021-2026)

Table 42. Rest of World Based Triple-junction GaAs Solar Cell for Space Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Triple-junction GaAs Solar Cell for Space Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Triple-junction GaAs Solar Cell for Space Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Triple-junction GaAs Solar Cell for Space Production, (2021-2026) & (KW)

Table 46. Rest of World Based Manufacturers Triple-junction GaAs Solar Cell for Space Production Market Share (2021-2026)

Table 47. World Triple-junction GaAs Solar Cell for Space Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Triple-junction GaAs Solar Cell for Space Production by Type (2021-2026) & (KW)

Table 49. World Triple-junction GaAs Solar Cell for Space Production by Type (2027-2032) & (KW)

Table 50. World Triple-junction GaAs Solar Cell for Space Production Value by Type (2021-2026) & (USD Million)

Table 51. World Triple-junction GaAs Solar Cell for Space Production Value by Type (2027-2032) & (USD Million)

Table 52. World Triple-junction GaAs Solar Cell for Space Average Price by Type (2021-2026) & (US\$/W)

Table 53. World Triple-junction GaAs Solar Cell for Space Average Price by Type (2027-2032) & (US\$/W)

Table 54. World Triple-junction GaAs Solar Cell for Space Production Value by Structure and Series Configuration, (USD Million), 2021 & 2025 & 2032

Table 55. World Triple-junction GaAs Solar Cell for Space Production by Structure and Series Configuration (2021-2026) & (KW)

Table 56. World Triple-junction GaAs Solar Cell for Space Production by Structure and Series Configuration (2027-2032) & (KW)

Table 57. World Triple-junction GaAs Solar Cell for Space Production Value by Structure and Series Configuration (2021-2026) & (USD Million)

Table 58. World Triple-junction GaAs Solar Cell for Space Production Value by Structure and Series Configuration (2027-2032) & (USD Million)

Table 59. World Triple-junction GaAs Solar Cell for Space Average Price by Structure and Series Configuration (2021-2026) & (US\$/W)

Table 60. World Triple-junction GaAs Solar Cell for Space Average Price by Structure and Series Configuration (2027-2032) & (US\$/W)

Table 61. World Triple-junction GaAs Solar Cell for Space Production Value by Packaging Formats, (USD Million), 2021 & 2025 & 2032

Table 62. World Triple-junction GaAs Solar Cell for Space Production by Packaging Formats (2021-2026) & (KW)

Table 63. World Triple-junction GaAs Solar Cell for Space Production by Packaging Formats (2027-2032) & (KW)

Table 64. World Triple-junction GaAs Solar Cell for Space Production Value by Packaging Formats (2021-2026) & (USD Million)

Table 65. World Triple-junction GaAs Solar Cell for Space Production Value by Packaging Formats (2027-2032) & (USD Million)

Table 66. World Triple-junction GaAs Solar Cell for Space Average Price by Packaging Formats (2021-2026) & (US\$/W)

Table 67. World Triple-junction GaAs Solar Cell for Space Average Price by Packaging Formats (2027-2032) & (US\$/W)

Table 68. World Triple-junction GaAs Solar Cell for Space Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Triple-junction GaAs Solar Cell for Space Production by Application (2021-2026) & (KW)

Table 70. World Triple-junction GaAs Solar Cell for Space Production by Application (2027-2032) & (KW)

Table 71. World Triple-junction GaAs Solar Cell for Space Production Value by Application (2021-2026) & (USD Million)

Table 72. World Triple-junction GaAs Solar Cell for Space Production Value by Application (2027-2032) & (USD Million)

Table 73. World Triple-junction GaAs Solar Cell for Space Average Price by Application (2021-2026) & (US\$/W)

Table 74. World Triple-junction GaAs Solar Cell for Space Average Price by Application (2027-2032) & (US\$/W)

Table 75. Spectrolab Basic Information, Manufacturing Base and Competitors

Table 76. Spectrolab Major Business

Table 77. Spectrolab Triple-junction GaAs Solar Cell for Space Product and Services

Table 78. Spectrolab Triple-junction GaAs Solar Cell for Space Production (KW), Price (US\$/W), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Spectrolab Recent Developments/Updates

Table 80. Spectrolab Competitive Strengths & Weaknesses

Table 81. AZUR SPACE Basic Information, Manufacturing Base and Competitors

Table 82. AZUR SPACE Major Business

Table 83. AZUR SPACE Triple-junction GaAs Solar Cell for Space Product and Services

Table 84. AZUR SPACE Triple-junction GaAs Solar Cell for Space Production (KW), Price (US\$/W), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. AZUR SPACE Recent Developments/Updates

Table 86. AZUR SPACE Competitive Strengths & Weaknesses

Table 87. Nanchang Kaixun Photoelectric Basic Information, Manufacturing Base and Competitors

Table 88. Nanchang Kaixun Photoelectric Major Business

Table 89. Nanchang Kaixun Photoelectric Triple-junction GaAs Solar Cell for Space Product and Services

Table 90. Nanchang Kaixun Photoelectric Triple-junction GaAs Solar Cell for Space Production (KW), Price (US\$/W), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Nanchang Kaixun Photoelectric Recent Developments/Updates

Table 92. Nanchang Kaixun Photoelectric Competitive Strengths & Weaknesses

Table 93. DR Technology Basic Information, Manufacturing Base and Competitors

Table 94. DR Technology Major Business

Table 95. DR Technology Triple-junction GaAs Solar Cell for Space Product and Services

Table 96. DR Technology Triple-junction GaAs Solar Cell for Space Production (KW), Price (US\$/W), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. DR Technology Recent Developments/Updates

Table 98. DR Technology Competitive Strengths & Weaknesses

Table 99. Shanghai Institute of Space Power-Sources Basic Information, Manufacturing Base and Competitors

Table 100. Shanghai Institute of Space Power-Sources Major Business

Table 101. Shanghai Institute of Space Power-Sources Triple-junction GaAs Solar Cell for Space Product and Services

Table 102. Shanghai Institute of Space Power-Sources Triple-junction GaAs Solar Cell for Space Production (KW), Price (US\$/W), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Shanghai Institute of Space Power-Sources Recent Developments/Updates

Table 104. Shanghai Institute of Space Power-Sources Competitive Strengths & Weaknesses

|                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Table 105. Xiamen Changelight Basic Information, Manufacturing Base and Competitors                                                                                                    |
| Table 106. Xiamen Changelight Major Business                                                                                                                                           |
| Table 107. Xiamen Changelight Triple-junction GaAs Solar Cell for Space Product and Services                                                                                           |
| Table 108. Xiamen Changelight Triple-junction GaAs Solar Cell for Space Production (KW), Price (US\$/W), Production Value (USD Million), Gross Margin and Market Share (2021-2026)     |
| Table 109. Xiamen Changelight Recent Developments/Updates                                                                                                                              |
| Table 110. Xiamen Changelight Competitive Strengths & Weaknesses                                                                                                                       |
| Table 111. Uniwatt Technology Basic Information, Manufacturing Base and Competitors                                                                                                    |
| Table 112. Uniwatt Technology Major Business                                                                                                                                           |
| Table 113. Uniwatt Technology Triple-junction GaAs Solar Cell for Space Product and Services                                                                                           |
| Table 114. Uniwatt Technology Triple-junction GaAs Solar Cell for Space Production (KW), Price (US\$/W), Production Value (USD Million), Gross Margin and Market Share (2021-2026)     |
| Table 115. Uniwatt Technology Recent Developments/Updates                                                                                                                              |
| Table 116. Uniwatt Technology Competitive Strengths & Weaknesses                                                                                                                       |
| Table 117. China Power Technology Basic Information, Manufacturing Base and Competitors                                                                                                |
| Table 118. China Power Technology Major Business                                                                                                                                       |
| Table 119. China Power Technology Triple-junction GaAs Solar Cell for Space Product and Services                                                                                       |
| Table 120. China Power Technology Triple-junction GaAs Solar Cell for Space Production (KW), Price (US\$/W), Production Value (USD Million), Gross Margin and Market Share (2021-2026) |
| Table 121. China Power Technology Recent Developments/Updates                                                                                                                          |
| Table 122. China Power Technology Competitive Strengths & Weaknesses                                                                                                                   |
| Table 123. CESI Basic Information, Manufacturing Base and Competitors                                                                                                                  |
| Table 124. CESI Major Business                                                                                                                                                         |
| Table 125. CESI Triple-junction GaAs Solar Cell for Space Product and Services                                                                                                         |
| Table 126. CESI Triple-junction GaAs Solar Cell for Space Production (KW), Price (US\$/W), Production Value (USD Million), Gross Margin and Market Share (2021-2026)                   |
| Table 127. CESI Recent Developments/Updates                                                                                                                                            |
| Table 128. CESI Competitive Strengths & Weaknesses                                                                                                                                     |
| Table 129. Global Key Players of Triple-junction GaAs Solar Cell for Space Upstream (Raw Materials)                                                                                    |
| Table 130. Global Triple-junction GaAs Solar Cell for Space Typical Customers                                                                                                          |

Table 131. Triple-junction GaAs Solar Cell for Space Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Triple-junction GaAs Solar Cell for Space Picture

Figure 2. World Triple-junction GaAs Solar Cell for Space Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Triple-junction GaAs Solar Cell for Space Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Triple-junction GaAs Solar Cell for Space Production (2021-2032) & (KW)

Figure 5. World Triple-junction GaAs Solar Cell for Space Average Price (2021-2032) & (US\$/W)

Figure 6. World Triple-junction GaAs Solar Cell for Space Production Value Market Share by Region (2021-2032)

Figure 7. World Triple-junction GaAs Solar Cell for Space Production Market Share by Region (2021-2032)

Figure 8. North America Triple-junction GaAs Solar Cell for Space Production (2021-2032) & (KW)

Figure 9. Europe Triple-junction GaAs Solar Cell for Space Production (2021-2032) & (KW)

Figure 10. China Triple-junction GaAs Solar Cell for Space Production (2021-2032) & (KW)

Figure 11. Japan Triple-junction GaAs Solar Cell for Space Production (2021-2032) & (KW)

Figure 12. Triple-junction GaAs Solar Cell for Space Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Triple-junction GaAs Solar Cell for Space Consumption (2021-2032) & (KW)

Figure 15. World Triple-junction GaAs Solar Cell for Space Consumption Market Share by Region (2021-2032)

Figure 16. United States Triple-junction GaAs Solar Cell for Space Consumption (2021-2032) & (KW)

Figure 17. China Triple-junction GaAs Solar Cell for Space Consumption (2021-2032) & (KW)

Figure 18. Europe Triple-junction GaAs Solar Cell for Space Consumption (2021-2032) & (KW)

Figure 19. Japan Triple-junction GaAs Solar Cell for Space Consumption (2021-2032) & (KW)



Figure 20. South Korea Triple-junction GaAs Solar Cell for Space Consumption (2021-2032) & (KW)

Figure 21. ASEAN Triple-junction GaAs Solar Cell for Space Consumption (2021-2032) & (KW)

Figure 22. India Triple-junction GaAs Solar Cell for Space Consumption (2021-2032) & (KW)

Figure 23. Producer Shipments of Triple-junction GaAs Solar Cell for Space by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Triple-junction GaAs Solar Cell for Space Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Triple-junction GaAs Solar Cell for Space Markets in 2025

Figure 26. United States VS China: Triple-junction GaAs Solar Cell for Space Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Triple-junction GaAs Solar Cell for Space Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Triple-junction GaAs Solar Cell for Space Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Triple-junction GaAs Solar Cell for Space Production Market Share 2025

Figure 30. China Based Manufacturers Triple-junction GaAs Solar Cell for Space Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Triple-junction GaAs Solar Cell for Space Production Market Share 2025

Figure 32. World Triple-junction GaAs Solar Cell for Space Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Triple-junction GaAs Solar Cell for Space Production Value Market Share by Type in 2025

Figure 34. Flip-chip Solar Cells

Figure 35. Conventional Solar Cells

Figure 36. World Triple-junction GaAs Solar Cell for Space Production Market Share by Type (2021-2032)

Figure 37. World Triple-junction GaAs Solar Cell for Space Production Value Market Share by Type (2021-2032)

Figure 38. World Triple-junction GaAs Solar Cell for Space Average Price by Type (2021-2032) & (US\$/W)

Figure 39. World Triple-junction GaAs Solar Cell for Space Production Value by Structure and Series Configuration, (USD Million), 2021 & 2025 & 2032

Figure 40. World Triple-junction GaAs Solar Cell for Space Production Value Market



Share by Structure and Series Configuration in 2025

Figure 41. Series-Connected Multi-Junction Cells

Figure 42. Stacked Multi-Junction Cells

Figure 43. World Triple-junction GaAs Solar Cell for Space Production Market Share by Structure and Series Configuration (2021-2032)

Figure 44. World Triple-junction GaAs Solar Cell for Space Production Value Market Share by Structure and Series Configuration (2021-2032)

Figure 45. World Triple-junction GaAs Solar Cell for Space Average Price by Structure and Series Configuration (2021-2032) & (US\$/W)

Figure 46. World Triple-junction GaAs Solar Cell for Space Production Value by Packaging Formats, (USD Million), 2021 & 2025 & 2032

Figure 47. World Triple-junction GaAs Solar Cell for Space Production Value Market Share by Packaging Formats in 2025

Figure 48. Bare Die

Figure 49. Packaged Assembly

Figure 50. Lightweight Packaging

Figure 51. World Triple-junction GaAs Solar Cell for Space Production Market Share by Packaging Formats (2021-2032)

Figure 52. World Triple-junction GaAs Solar Cell for Space Production Value Market Share by Packaging Formats (2021-2032)

Figure 53. World Triple-junction GaAs Solar Cell for Space Average Price by Packaging Formats (2021-2032) & (US\$/W)

Figure 54. World Triple-junction GaAs Solar Cell for Space Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 55. World Triple-junction GaAs Solar Cell for Space Production Value Market Share by Application in 2025

Figure 56. Satellite

Figure 57. Space Exploration

Figure 58. Space Science Experiment

Figure 59. Others

Figure 60. World Triple-junction GaAs Solar Cell for Space Production Market Share by Application (2021-2032)

Figure 61. World Triple-junction GaAs Solar Cell for Space Production Value Market Share by Application (2021-2032)

Figure 62. World Triple-junction GaAs Solar Cell for Space Average Price by Application (2021-2032) & (US\$/W)

Figure 63. Triple-junction GaAs Solar Cell for Space Industry Chain

Figure 64. Triple-junction GaAs Solar Cell for Space Procurement Model

Figure 65. Triple-junction GaAs Solar Cell for Space Sales Model

Figure 66. Triple-junction GaAs Solar Cell for Space Sales Channels, Direct Sales, and Distribution

Figure 67. Methodology

Figure 68. Research Process and Data Source

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