

Global Single-junction GaAs Solar Cell Market Growth 2026-2032

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Abstracts

The global Single-junction GaAs Solar Cell market size is predicted to grow from US\$ 143 million in 2025 to US\$ 230 million in 2032; it is expected to grow at a CAGR of 7.2% from 2026 to 2032.

A Single-junction GaAs (Gallium Arsenide) Solar Cell is a type of photovoltaic device that uses a single p-n junction made from gallium arsenide to convert sunlight into electricity. GaAs is a compound semiconductor material known for its high efficiency in absorbing sunlight and converting it into electrical energy. These solar cells are popular due to their high power conversion efficiency, superior performance in low-light conditions, and resistance to radiation damage, making them suitable for space applications and high-performance solar panels. However, they are more expensive to produce compared to traditional silicon-based solar cells.

United States market for Single-junction GaAs Solar Cell 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 Single-junction GaAs Solar Cell 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 Single-junction GaAs Solar Cell is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Single-junction GaAs Solar Cell players cover Spectrolab, AZUR SPACE, Rocket Lab, Nanchang Kaixun Photoelectric, DR Technology, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the “Single-junction GaAs Solar Cell Industry Forecast” looks at past sales and reviews total world Single-junction GaAs Solar Cell sales in 2025, providing a comprehensive analysis by region and market sector of projected Single-junction GaAs Solar Cell sales for 2026 through 2032. With Single-junction 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 Single-junction GaAs Solar Cell industry.

This Insight Report provides a comprehensive analysis of the global Single-junction 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 Single-junction 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 Single-junction GaAs Solar Cell market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Single-junction 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 Single-junction GaAs Solar Cell.

This report presents a comprehensive overview, market shares, and growth opportunities of Single-junction GaAs Solar Cell market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Aviation Grade

Civilian Grade

Segmentation by Application:

UAV

Aerospace

Photovoltaic Power Generation

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.

Spectrolab

AZUR SPACE

Rocket Lab

Nanchang Kaixun Photoelectric

DR Technology

Shanghai Institute of Space Power-Sources

Xiamen Changelight

Uniwatt Technology

China Power Technology

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Key Questions Addressed in this Report

What is the 10-year outlook for the global Single-junction GaAs Solar Cell market?

What factors are driving Single-junction GaAs Solar Cell market growth, globally and by region?

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

How do Single-junction GaAs Solar Cell market opportunities vary by end market size?

How does Single-junction GaAs Solar Cell break out by Type, by Application?

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

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