

Global Single-junction GaAs Solar Cell Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Single-junction GaAs Solar Cell market size is expected to reach \$ 15776 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

Single-junction gallium arsenide (GaAs) solar cells are photovoltaic devices fabricated from a single layer of GaAs semiconductor material. Characterized by high efficiency, high-temperature tolerance, and radiation resistance, they are frequently utilized in aerospace, satellite, defense, and high-end photovoltaic applications to facilitate the efficient conversion of light energy into electrical energy.

The upstream segment of the industry comprises suppliers of high-purity GaAs ingots, epitaxial wafers, and precision chemicals; the downstream segment includes aerospace and satellite manufacturers, high-performance drone enterprises, and integrators of specialized photovoltaic systems, who are responsible for cell assembly and end-application deployment.

In the global market for single-junction gallium arsenide (GaAs) solar cells, the average unit price stands at \$300 per watt, with global sales volume reaching approximately 32,270 kilowatts. The industry's annual production capacity ranges from 40,000 to 50,000 kilowatts, and the profit margin is approximately 25%.

Looking ahead, the single-junction GaAs solar cell market is expected to continue being driven by demand from the aerospace, satellite communication, and high-performance drone sectors, with high efficiency and lightweight design emerging as key technological priorities. As manufacturing costs decline and production processes undergo optimization, the scope of application is poised to expand into high-end terrestrial

photovoltaic systems and portable energy devices. Concurrently, as industry consolidation intensifies, innovation and reliability will become the core pillars of market competitiveness.

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

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

Highlights and key features of the study

Global Single-junction GaAs Solar Cell total production and demand, 2021-2032, (kW)

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

Global Single-junction GaAs Solar Cell production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kW), (based on production site)

Global Single-junction GaAs Solar Cell consumption by region & country, CAGR, 2021-2032 & (kW)

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

Global Single-junction GaAs Solar Cell production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (kW)

Global Single-junction GaAs Solar Cell production by Type, production, value, CAGR, 2021-2032, (USD Million) & (kW)

Global Single-junction GaAs Solar Cell production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kW)

This report profiles key players in the global Single-junction GaAs Solar Cell 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 Single-junction GaAs Solar Cell 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 Single-junction GaAs Solar Cell Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Single-junction GaAs Solar Cell Market, Segmentation by Type:

Aviation Grade

Civilian Grade

Global Single-junction GaAs Solar Cell Market, Segmentation by Encapsulation:

Bare Cell

Encapsulated Cell

Back-contact

Global Single-junction GaAs Solar Cell Market, Segmentation by Manufacturing Process:

MOCVD

MBE

Global Single-junction GaAs Solar Cell Market, Segmentation by Application:

UAV

Aerospace

Photovoltaic Power Generation

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

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