

# Global Space Grade Solar Cells Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global Space Grade Solar Cells market size was valued at US\$ 581 million in 2024 and is forecast to a readjusted size of USD 974 million by 2031 with a CAGR of 7.8% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Space-grade solar cells are high-efficiency photovoltaic cells specifically designed to withstand the harsh conditions of space and provide reliable power for satellites, space probes, and other spacecraft. These solar cells are typically made from advanced materials such as gallium arsenide (GaAs) and multi-junction technologies, which offer superior efficiency compared to terrestrial solar cells. They are engineered to be highly resistant to radiation, extreme temperatures, and the vacuum of space. The performance and durability of space-grade solar cells are critical for long-term missions, ensuring that spacecraft can generate sufficient power throughout their operational life, even as they travel far from the Sun or encounter challenging environments.

This report is a detailed and comprehensive analysis for global Space Grade Solar Cells market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

**Key Features:**

Global Space Grade Solar Cells market size and forecasts, in consumption value (\$ Million), sales quantity (Sq m), and average selling prices (US\$/Sq m), 2020-2031

Global Space Grade Solar Cells market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Sq m), and average selling prices (US\$/Sq m), 2020-2031

Global Space Grade Solar Cells market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Sq m), and average selling prices (US\$/Sq m), 2020-2031

Global Space Grade Solar Cells market shares of main players, shipments in revenue (\$ Million), sales quantity (Sq m), and ASP (US\$/Sq m), 2020-2025

**The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Space Grade Solar Cells

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Space Grade Solar Cells market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Spectrolab (Boeing), Endurosat, DHV Technology, Sparkwing (Airbus), AAC Clyde Space, Redwire Space, NPC Spacemind, SpaceTech, Rocket Lab, SolarSpace, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

**Market Segmentation**

Space Grade Solar Cells market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

#### Market segment by Type

Rigid Solar Panels

Semi-rigid Solar Panels

Flexible Solar Panels

#### Market segment by Application

Government and Defense

Commercial

#### Major players covered

Spectrolab (Boeing)

Endurosat

DHV Technology

Sparkwing (Airbus)

AAC Clyde Space

Redwire Space

NPC Spacemind

SpaceTech

Rocket Lab

SolarSpace

Northrop Grumman

CESI

AZUR SPACE

Lockheed Martin

Pumpkin Space Systems

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Space Grade Solar Cells product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Space Grade Solar Cells, with price, sales quantity, revenue, and global market share of Space Grade Solar Cells from 2020 to 2025.

Chapter 3, the Space Grade Solar Cells competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Space Grade Solar Cells breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Space Grade Solar Cells market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Space Grade Solar Cells.

Chapter 14 and 15, to describe Space Grade Solar Cells sales channel, distributors, customers, research findings and conclusion.

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