

Global Spacecraft Electrical Power System Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Spacecraft Electrical Power System market size was valued at US\$ 1873 million in 2025 and is forecast to a readjusted size of US\$ 3887 million by 2032 with a CAGR of 10.5% during review period.

A spacecraft electrical power system is the onboard power generation, energy storage, conditioning, conversion, distribution, protection and telemetry-management system used on satellites, spacecraft, space stations, lunar platforms and deep-space missions. This study focuses on space-qualified power hardware and integrated subsystem solutions, including multi-junction space solar cells, CIC assemblies, solar panels, rigid and flexible deployable solar arrays, solar wings and associated drive or deployment assemblies, lithium-ion space batteries and battery packs, power control units, power conditioning and distribution units, power distribution units, PMAD electronics, space-grade DC-DC converters, power management modules and standardized EPS products for CubeSats and small satellites. The core function of the system is to convert solar-array or other onboard power inputs into regulated spacecraft bus power, manage battery charging and discharging, and distribute protected electrical power to the spacecraft platform and payload subsystems.

Based on our research, the spacecraft electrical power system should be treated as a mission-critical onboard subsystem rather than as a generic power-supply product. Its industrial boundary covers power generation, storage, conditioning, conversion, distribution and protection, with key hardware including space solar cells, CICs, solar panels and arrays, space-qualified lithium-ion batteries, PCU/PCDU/PDU/PMAD units and radiation-hardened or radiation-tolerant power electronics. A narrow definition is

necessary because broad ?aerospace power? would otherwise include aircraft power, ground equipment, industrial power supplies and launch-related systems that do not represent the onboard spacecraft EPS market. NASA?s small-satellite technology reference also supports this subsystem-level view by treating PMAD electronics, batteries and solar-array elements as the essential building blocks of spacecraft power.

Demand growth is driven by two different forces. High-volume LEO constellations, commercial remote sensing and small satellites support standardized EPS modules, lower unit cost and repeatable production. At the same time, GEO communications satellites, navigation spacecraft, deep-space missions, space-station infrastructure and lunar systems support high-value, high-reliability, high-power products. SIA?s 2025 satellite industry data show a large satellite manufacturing revenue base and continued commercial satellite activity, which gives the EPS market a credible downstream foundation. The result is a market that is mature in reliability requirements but still growing in volume, product variety and regional supply-chain localization.

This report is a detailed and comprehensive analysis for global Spacecraft Electrical Power System 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 Spacecraft Electrical Power System market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Spacecraft Electrical Power System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Spacecraft Electrical Power System market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Spacecraft Electrical Power System market shares of main players, shipments in

revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

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 Spacecraft Electrical Power System

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 Spacecraft Electrical Power System 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 Airbus SE, The Boeing Company, Northrop Grumman Corporation, Mitsubishi Electric Corporation, Rocket Lab USA, Inc., TotalEnergies SE, EnerSys, 5N Plus Inc., Thales S.A., Leonardo S.p.A., etc.

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

Market Segmentation

Spacecraft Electrical Power System market is split by Type and by Application. For the period 2021-2032, 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

Integrated EPS

Space Battery Pack

Other

Market segment by Power Rating

Low Power EPS

Medium Power EPS

High Power EPS

Very High Power EPS

Market segment by Bus Voltage Architecture

Unregulated Bus

Regulated Bus

Other

Market segment by Solar Array Form

Rigid Deployable Solar Array

Flexible Solar Array

Roll-out Solar Array

Other Solar Array Forms

Market segment by Application

Earth Observation and Remote Sensing

Human Spaceflight and Space Station

Lunar and Deep Space Infrastructure

Defense and Military Space

Space Research and Education

Other

Major players covered

Airbus SE

The Boeing Company

Northrop Grumman Corporation

Mitsubishi Electric Corporation

Rocket Lab USA, Inc.

TotalEnergies SE

EnerSys

5N Plus Inc.

Thales S.A.

Leonardo S.p.A.

Texas Instruments Incorporated

Microchip Technology Inc.

Infineon Technologies AG

HEICO Corporation

GS Yuasa Corporation

Redwire Corporation

Sharp Corporation

Beyond Gravity

EaglePicher Technologies

Terma A/S

CESI S.p.A.

Frontgrade Technologies

Vicor Corporation

CETC Lantian Technology Co., Ltd.

Suzhou Fuchang Space Technology Co., Ltd.

AAC Clyde Space AB

Kongsberg Gruppen ASA

GomSpace Group AB

ISISPACE Group

EnduroSat AD

DHV Technology

MMA Design LLC

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 Spacecraft Electrical Power System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Spacecraft Electrical Power System, with price, sales quantity, revenue, and global market share of Spacecraft Electrical Power System from 2021 to 2026.

Chapter 3, the Spacecraft Electrical Power System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Spacecraft Electrical Power System breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Spacecraft Electrical Power System market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Spacecraft

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