

Global Quadrature Boosters 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 Quadrature Boosters market size was valued at US\$ 1883 million in 2025 and is forecast to a readjusted size of US\$ 2957 million by 2032 with a CAGR of 6.6% during review period.

In 2025, global Quadrature Booster output reached approximately 10,500 units against an installed capacity of about 14,000 units, with average unit price USD 175,000, enabling leading manufacturers to sustain gross margins around 27%. Quadrature Boosters are specialized high-voltage power transformers used in transmission networks to actively control real power flow by injecting a controllable quadrature (phase-shifted) voltage into a line, thereby redistributing load between parallel corridors, relieving congestion, improving system stability, and enabling higher utilization of existing grid assets without building new lines. The supply chain begins upstream with electrical steel laminations, copper or aluminum conductors, transformer oil or ester fluids, high-voltage insulation (pressboard, paper, epoxy systems), bushings, tap changers, power electronics for control systems, and steel tanks; these inputs are sourced from metallurgical producers, specialty chemical suppliers, and high-voltage component manufacturers. Midstream, a small group of heavy-electrical OEMs design and manufacture the core-and-coil assemblies, windings, magnetic circuits, cooling systems, and digital control units in large transformer plants, performing vacuum drying, oil filling, factory acceptance testing, and system integration. Downstream, EPC contractors and utilities handle transport (often via rail or heavy haul), site preparation, installation, commissioning, grid integration, and long-term service, with end users concentrated among transmission system operators, national grid companies, and large utilities deploying quadrature boosters in congested interties, cross-border links, and renewable-heavy corridors.

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

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

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

Global Quadrature Boosters market shares of main players, shipments in revenue (\$ Million), sales quantity (K 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 Quadrature Boosters
- 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 Quadrature Boosters 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 Siemens Energy, GE Vernova, Hitachi Energy, SGB-SMIT Group, ABB Group, Mitsubishi Electric, Hyundai Group, Xinjiang TBEA Group, Xi'an XD Group, Pauwels Transformers, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Market Segmentation

Quadrature Boosters 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

Fixed Phase Shift Type

Dynamic Flow Control Type

Market segment by Cooling System

Oil Natural Air Forced

Oil Forced Air Forced

Oil Forced Water Forced

Market segment by Application

Outdoor Installation

Indoor Installation

Major players covered

Siemens Energy

GE Vernova

Hitachi Energy

SGB-SMIT Group

ABB Group

Mitsubishi Electric

Hyundai Group

Xinjiang TBEA Group

Xi'an XD Group

Pauwels Transformers

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 Quadrature Boosters product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Quadrature Boosters, with price, sales quantity, revenue, and global market share of Quadrature Boosters from 2021 to 2026.

Chapter 3, the Quadrature Boosters competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Quadrature Boosters 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 Quadrature Boosters 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 Quadrature Boosters.

Chapter 14 and 15, to describe Quadrature Boosters sales channel, distributors, customers, research findings and conclusion.

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