

Global Programmable Single-channel DC Power Supply 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 Programmable Single-channel DC Power Supply market size was valued at US\$ 252 million in 2024 and is forecast to a readjusted size of USD 357 million by 2031 with a CAGR of 5.1% during review period.

A programmable single-channel DC power supply is a DC power supply device that can accurately control the output voltage and current through computer programming or digital interface. A programmable single-channel DC power supply has only one output channel, which means it can independently control the output parameters of that channel, such as voltage and current. Users can send instructions through computer programming or digital interfaces (such as GPIB, RS-232, LAN, etc.) to set the power supply's output voltage, current range, output mode and other parameters. The power supply can automatically adjust the output characteristics according to the program or instructions set by the user to meet the needs of different loads and applications.

This report is a detailed and comprehensive analysis for global Programmable Single-channel DC Power Supply 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 Programmable Single-channel DC Power Supply market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Programmable Single-channel DC Power Supply market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Programmable Single-channel DC Power Supply market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Programmable Single-channel DC Power Supply market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 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 Programmable Single-channel DC Power Supply

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 Programmable Single-channel DC Power Supply 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 Keysight Technologies, National Instruments, Tektronix, Chroma, AMETEK Programmable Power, Rigol Technologies, GW Instek, B&K Precision, TDK-Lambda, Magna-Power Electronics, etc.

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

Market Segmentation

Programmable Single-channel DC Power Supply 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

Linear

Switch

Market segment by Application

Electronic Manufacturing Industry

Communication Industry

Semiconductor Industry

Automotive Industry

Medical Equipment

Other

Major players covered

Keysight Technologies

National Instruments

Tektronix

Chroma

AMETEK Programmable Power

Rigol Technologies

GW Instek

B&K Precision

TDK-Lambda

Magna-Power Electronics

EA Elektro-Automatik

Qingdao Kangsi Electronic Technology

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 Programmable Single-channel DC Power Supply product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Programmable Single-channel DC Power Supply, with price, sales quantity, revenue, and global market share of Programmable Single-channel DC Power Supply from 2020 to 2025.

Chapter 3, the Programmable Single-channel DC Power Supply competitive situation,

sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Programmable Single-channel DC Power Supply 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 Programmable Single-channel DC Power Supply 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 Programmable Single-channel DC Power Supply.

Chapter 14 and 15, to describe Programmable Single-channel DC Power Supply sales channel, distributors, customers, research findings and conclusion.

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