

# Global AC Test Power Supply Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global AC Test Power Supply market size is expected to reach \$ 969 million by 2032, rising at a market growth of 4.7% CAGR during the forecast period (2026-2032). An AC test power supply (often called a programmable AC power source) is a laboratory/test instrument that provides a controlled, adjustable AC output to power a device under test so engineers can verify performance and compliance under different mains conditions. Unlike a standard wall outlet, it lets you set voltage, frequency, and often waveform shape (e.g., sine plus optional distortion), and many models support single-phase or three-phase output, transients (brownouts, surges, dropouts), and built-in measurement of V/I/P, power factor, harmonics, plus computer control for automated test systems. It's widely used in R&D, validation, and production test for products like power supplies, chargers, inverters/motor drives, consumer electronics, medical devices, aerospace/defense electronics, and any equipment that must operate reliably across global grid standards. The universal test power is a power electronic device that can accurately output different voltages and currents, simulate the load characteristics of the power supply, and is used for AC and DC power supplies and electronic loads for testing electrical and electronic equipment. It can be generally understood as a device that can accurately output different voltages and currents and is used to test the performance of different electrical products under various voltage and current conditions. Test power supply belongs to the category of instruments and equipment. It is a necessary test instrument and equipment in the research and development, production and certification testing process of photovoltaic energy storage, new energy vehicles, aerospace and other electrical products and components. It is a basic testing equipment in the industrial field. The average price of this product is about US\$15K per unit, and the annual sales volume is less than 50K units.

Upstream, test power (typically precision/programmable DC power supplies, AC sources, and electronic loads used in test & measurement) is built on core power-

conversion and metrology subsystems?power semiconductors and magnetics, precision sensing and feedback (voltage/current measurement, references), control electronics and firmware, thermal management, safety/isolation design, and test/verification/calibration during manufacturing?plus software/communications interfaces for automation and data logging. Downstream, it is purchased and used as essential infrastructure across electronics R&D and validation labs, automated test equipment (ATE) lines, and production/QA for sectors like semiconductors, automotive electronics and EV power systems, industrial automation, telecom, and power electronics (inverters, converters, power supplies), with ongoing pull-through from calibration services, service contracts, and integration into test racks/robotic cells. The market perspective for test power supplies is shaped by the growing demand for precise, stable, and programmable power solutions across industries such as electronics, automotive, aerospace, and telecommunications. With rapid advancements in semiconductors, electric vehicles, and 5G infrastructure, the need for reliable test power sources that can simulate real-world operating conditions has intensified. End users increasingly value features like high accuracy, wide voltage/current ranges, fast transient response, and digital interfaces for automation and remote control. Moreover, the transition toward renewable energy systems, battery testing, and advanced research in power electronics is driving innovation in this field, pushing manufacturers to focus on higher efficiency, modularity, and integration with software-driven testing platforms. This dynamic creates opportunities not only for established suppliers but also for specialized players offering tailored, application-specific solutions. This report studies the global AC Test Power Supply production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for AC Test Power Supply 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 AC Test Power Supply that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global AC Test Power Supply total production and demand, 2021-2032, (Units)

Global AC Test Power Supply total production value, 2021-2032, (USD Million)

Global AC Test Power Supply production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global AC Test Power Supply consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: AC Test Power Supply domestic production, consumption, key domestic manufacturers and share

Global AC Test Power Supply production by manufacturer, production, price, value and

market share 2021-2026, (USD Million) & (Units)

Global AC Test Power Supply production by Power, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global AC Test Power Supply production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global AC Test Power Supply 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 AMETEK, Keysight, Tektronix, KIKUSUI, Chroma, ITECH, Kewell, Ainuo, NI, Actionpower, 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 AC Test Power Supply market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Power, 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 AC Test Power Supply Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global AC Test Power Supply Market, Segmentation by Power:

Low Power Test Power Sources (0.5kW ~ 35kW)

High Power Test Power Sources (40kW ~ 2000kW)

### Global AC Test Power Supply Market, Segmentation by Test Product:

Electrical Equipment

Power Generation Equipment

### Global AC Test Power Supply Market, Segmentation by Type:

General Purpose Power Supply

Dedicated Power Supply

### Global AC Test Power Supply Market, Segmentation by Application:

New Energy Power Generation

Electric Vehicles

Electronics and Semiconductors

Aerospace

Rail Transportation

Others

### **Companies Profiled:**

AMETEK

Keysight

Tektronix

KIKUSUI

Chroma

ITECH

Kewell

Ainuo

NI

Actionpower

Preen Power

Wocen Power

Nebula

Digatron

Pacific Power Source

Advanced Energy

Delta Elektronika

ANDRITZ Bitrode

**Key Questions Answered:**

1. How big is the global AC Test Power Supply market?
2. What is the demand of the global AC Test Power Supply market?

3. What is the year over year growth of the global AC Test Power Supply market?
4. What is the production and production value of the global AC Test Power Supply market?
5. Who are the key producers in the global AC Test Power Supply market?
6. What are the growth factors driving the market demand?

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