

Global UPS and Battery Testers Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GBD007775232EN.html>

Date: June 2026

Pages: 120

Price: US\$ 4,480.00 (Single User License)

ID: GBD007775232EN

Abstracts

The global UPS and Battery Testers market size is expected to reach \$ 2345 million by 2032, rising at a market growth of 8.2% CAGR during the forecast period (2026-2032).

UPS and battery testers are specialized diagnostic devices used to assess the health, capacity, and performance of stationary batteries deployed in uninterruptible power supply systems and critical backup power applications. Unlike standard voltmeters, these testers employ methods including impedance testing, conductance testing, discharge/load bank testing, and internal resistance measurement to detect battery degradation, predict remaining useful life, and prevent unexpected failures. Key equipment types include battery impedance testers, battery load testers, battery analyzers, battery capacity testers, and battery cyclers. From a value chain perspective, upstream includes electronic component suppliers (sensors, microcontrollers, power resistors), signal processing chip manufacturers, and display/interface providers; midstream involves equipment design, firmware development, assembly, calibration, and quality testing; downstream demand spans data centers, telecommunication networks, healthcare facilities, industrial manufacturing plants, renewable energy storage systems, and transportation infrastructure. In 2025, the average selling price is approximately US\$2,800 per unit, global sales volume is about 464.6k units, and gross margins generally range from 25% to 45%, driven by component quality, measurement accuracy requirements, and application-specific certification standards.

The UPS and battery testers market is experiencing robust growth driven by the global expansion of critical infrastructure requiring uninterrupted power supply. Data centers, telecommunications networks, hospitals, and financial institutions increasingly rely on large-scale battery backup systems to maintain operations during grid disturbances. Regular battery testing has become a standard maintenance practice to prevent costly

downtime, as undetected battery degradation remains the leading cause of UPS system failures.

Another key trend is the technological transition from lead-acid to lithium-ion batteries in UPS applications. Lithium-ion batteries offer higher energy density, longer cycle life, and reduced footprint but require different testing methodologies compared to traditional lead-acid batteries. This chemistry shift is driving demand for next-generation testers capable of accurate impedance measurement, state-of-charge estimation, and thermal monitoring specific to lithium-ion chemistries. Manufacturers are developing multi-chemistry testers that can handle both lead-acid and lithium-ion batteries, providing flexibility for mixed-battery environments.

This report studies the global UPS and Battery Testers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for UPS and Battery Testers 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 UPS and Battery Testers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global UPS and Battery Testers total production and demand, 2021-2032, (K Units)

Global UPS and Battery Testers total production value, 2021-2032, (USD Million)

Global UPS and Battery Testers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global UPS and Battery Testers consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: UPS and Battery Testers domestic production, consumption, key domestic manufacturers and share

Global UPS and Battery Testers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global UPS and Battery Testers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global UPS and Battery Testers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global UPS and Battery Testers 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 Megger Group Limited, Chroma ATE Inc., Keysight Technologies, Inc., Hioki E.E. Corporation, Ametek, Inc., Cadex Electronics Inc., Kikusui Electronics Corporation, B&K Precision Corporation, TDK Corporation, Phoenix Contact, 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 UPS and Battery Testers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, 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 UPS and Battery Testers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global UPS and Battery Testers Market, Segmentation by Type:

Lead-Acid Battery Tester

Lithium-Ion Battery Tester

Nickel-Based Battery Tester

Multi-Chemistry Tester

Global UPS and Battery Testers Market, Segmentation by Product Portability:

Portable Battery Tester

Stationary Battery Tester

Global UPS and Battery Testers Market, Segmentation by Intelligence Level:

Basic Handheld Tester

Bluetooth-Enabled Tester

IoT/Cloud-Connected Tester

AI-Enabled Predictive Tester

Global UPS and Battery Testers Market, Segmentation by Application:

Utility Companies

Data Center Operators

Telecom Operators

Service & Maintenance Companies

Battery Manufacturers

Companies Profiled:

Megger Group Limited

Chroma ATE Inc.

Keysight Technologies, Inc.

Hioki E.E. Corporation

Ametek, Inc.

Cadex Electronics Inc.

Kikusui Electronics Corporation

B&K Precision Corporation

TDK Corporation

Phoenix Contact

DV Power

Arbin Instruments

Shenzhen Newware

Zhejiang HangKe Technology Inc.

Shenzhen Bonad Instrument Co., Ltd.

Key Questions Answered:

1. How big is the global UPS and Battery Testers market?
2. What is the demand of the global UPS and Battery Testers market?

3. What is the year over year growth of the global UPS and Battery Testers market?
4. What is the production and production value of the global UPS and Battery Testers market?
5. Who are the key producers in the global UPS and Battery Testers market?
6. What are the growth factors driving the market demand?

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