

# Global Battery Capacity Tester 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 Battery Capacity Tester market size was valued at US\$ 653 million in 2025 and is forecast to a readjusted size of US\$ 946 million by 2032 with a CAGR of 5.3% during review period.

A Battery Capacity Tester is a specialized electronic testing device used to measure the actual capacity, performance condition, and charge/discharge characteristics of batteries. The instrument is typically designed as a benchtop or rack-mounted system and mainly consists of a metal enclosure, control panel, testing channels, power supply module, programmable electronic load, voltage and current sensing units, temperature monitoring module, and data acquisition and control software. In appearance, it resembles industrial testing equipment with a display interface, control buttons, or computer communication ports, and connects to battery cells or battery packs through test fixtures or cables.

The working principle of a battery capacity tester is based on simulating real operating loads by applying a constant current or constant power discharge to the battery while continuously monitoring parameters such as voltage, current, time, and temperature. The discharge continues until a predefined end-of-discharge voltage is reached. The system calculates the released energy according to the discharge current and duration to determine the battery's actual capacity and performance curve, and it can also analyze cycle life, internal resistance variation, and overall battery health. This process relies on constant-current control technology, precision voltage sampling, digital data acquisition, and software-based analysis.

With the global transition toward cleaner energy and the rapid development of the new

energy industry, the market for battery capacity testers is experiencing significant growth opportunities. The rapid expansion of the electric vehicle industry is one of the primary drivers of demand for such equipment. Power batteries are critical components of electric vehicles, and extensive testing is required during research, production, and quality control processes to ensure that battery capacity, cycle life, and safety performance meet required standards. In addition, the rapid rise of the energy storage industry has further expanded the demand for battery testing equipment. As the share of renewable energy generation continues to increase, large-scale energy storage systems are playing a vital role in grid balancing, distributed energy management, and microgrid applications. Batteries used in these systems must undergo rigorous capacity and performance testing before deployment. Furthermore, the continued growth of consumer electronics, electric tools, drones, and portable energy storage devices is also driving the demand for battery testing equipment. At the same time, governments around the world are strengthening regulations on battery safety and quality, such as the EU Battery Regulation, North American certification standards, and China's evolving new energy battery regulatory framework. These policies require manufacturers to conduct more comprehensive and systematic battery performance testing during production, which further stimulates demand for battery capacity testers. Technologically, battery capacity testers are evolving toward higher precision, higher channel density, automation, and digitalization. By integrating industrial internet technologies and data analytics platforms, these systems can support full lifecycle battery testing data management, creating additional growth opportunities for equipment manufacturers. Despite promising market prospects, the battery capacity tester industry still faces several challenges and risks. First, the research and production of such equipment require advanced power electronics technology, precision measurement capabilities, and sophisticated software control systems. The relatively high technological barrier requires continuous R&D investment, which can place financial pressure on small and medium-sized enterprises. Second, market competition is intensifying. As the new energy sector expands rapidly, many equipment manufacturers are entering the battery testing equipment market, leading to increasing price competition. Some low-end products may capture market share through aggressive pricing strategies, potentially compressing industry profit margins. In addition, the rapid evolution of battery technologies also poses challenges for testing equipment. Emerging technologies such as solid-state batteries and sodium-ion batteries require testing systems with higher voltage ranges, greater power capacity, and more advanced testing algorithms. This means equipment manufacturers must continuously upgrade their product designs to meet new testing requirements. From a supply chain perspective, the availability of key components such as high-precision current sensors, power modules, and control chips may also affect production cycles and cost structures.

Moreover, global macroeconomic fluctuations, international trade policy changes, and technology export controls may introduce additional uncertainties for equipment manufacturers. As a result, companies need to strengthen their competitive advantages through technological innovation, product differentiation, and global market expansion strategies. From the perspective of downstream demand trends, the battery capacity tester market is increasingly characterized by large-scale deployment, intelligent systems, and expansion into diverse application fields. In the context of the rapid growth of power batteries and energy storage batteries, battery manufacturers are demanding high-throughput, multi-channel testing systems to meet the needs of large-scale production line testing and battery sorting processes. In the future, as battery manufacturing capacity continues to expand, automated testing systems are expected to become the dominant equipment form, with deep integration into automated production lines and Manufacturing Execution Systems (MES). Meanwhile, research institutions and battery manufacturers continue to demand high-precision testing equipment for battery material research, cycle life testing, and performance evaluation, which is driving the development of advanced battery testing systems. In addition, the emerging industries of battery second-life utilization and battery recycling are generating new testing requirements. Retired power batteries must undergo capacity testing and state-of-health evaluation before being repurposed for energy storage or other applications, creating new demand for battery testing equipment. At the same time, as application markets such as electric transportation devices, energy storage power supplies, and portable power systems continue to expand, battery products are becoming more diverse in type and specification. This requires testing equipment to offer higher compatibility and flexibility. Overall, the battery capacity tester market is expected to maintain steady growth in the future, driven by the expansion of the new energy industry chain, the rapid development of the energy storage market, and increasing demand for battery lifecycle management.

This report is a detailed and comprehensive analysis for global Battery Capacity Tester 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 Battery Capacity Tester market size and forecasts, in consumption value (\$

Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Battery Capacity Tester 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 Battery Capacity Tester 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 Battery Capacity Tester 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 Battery Capacity Tester

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 Battery Capacity Tester 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 Hioki E.E. Corporation, Fortive Corp, Megger Group Limited, Kikusui Electronics Corporation, Chauvin Arnoux Group, Midtronics, Teledyne FLIR, Arbin Instruments, Xiamen Tmax Battery Equipments Limited, Shenzhen Neware Technology Limited, etc.

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

### **Market Segmentation**

Battery Capacity Tester 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

Portable Type

Stationary Type

#### Market segment by Testing Function Type

Charge & Discharge Battery Tester

Discharge Capacity Tester

Battery Cycling Tester

Battery Analyzer

#### Market segment by System Architecture

Benchtop Battery Tester

Rack-Mounted Battery Test System

Cabinet Battery Test System

#### Market segment by Test Channel Configuration

Single-Channel Battery Tester

Dual-Channel Battery Tester

Multi-Channel Battery Tester

## Market segment by Application

Motive Battery

Energy Storage/Reserve Battery

Digital and Electrical Products Battery

Others

## Major players covered

Hioki E.E. Corporation

Fortive Corp

Megger Group Limited

Kikusui Electronics Corporation

Chauvin Arnoux Group

Midtronics

Teledyne FLIR

Arbin Instruments

Xiamen Tmax Battery Equipments Limited

Shenzhen Neware Technology Limited

Chroma ATE Inc.

Digatron Power Electronics GmbH

Illinois Tool Works

PEC

MACCOR

WonATech

Ivium Technologies

BioLogic

Kewell

ITECH Electronic

Hopetech

Applent Instruments

Aitelong Technology

Guangzhou ZLG Instrument

Wuhan LAND Electronic

Shenzhen Bonad Instrument

Xiamen Acey Intelligent Equipment

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 Battery Capacity Tester product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Battery Capacity Tester 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 Battery Capacity Tester 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 Battery Capacity Tester.

Chapter 14 and 15, to describe Battery Capacity Tester sales channel, distributors, customers, research findings and conclusion.

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