

Global Battery Cell Charge and Discharge Testing Equipment 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 Cell Charge and Discharge Testing Equipment market size was valued at US\$ 542 million in 2025 and is forecast to a readjusted size of US\$ 744 million by 2032 with a CAGR of 4.5% during review period.

Battery cell charge/discharge testing equipment refers to a complete hardware and software system capable of performing precise constant current and constant voltage charge/discharge, cycle life assessment, and safety limit verification of individual battery cells under controlled conditions. The equipment typically consists of a high-precision power unit, measurement module, temperature control and fixture system, and host computer testing software. It can operate independently or in parallel with multiple channels, and is used to build a testing platform from the laboratory to the mass production line.

Japan's TOYO SYSTEM clearly categorizes its products as charge/discharge and cycle testing systems for everything from button batteries to large battery cells for electric vehicles, complete with ambient temperature chambers and safety control modules, highlighting its role in materials research and development, process verification, and mass production sampling inspection. South Korean companies such as Wonik PNE and Bitrode provide equipment for the assembly, capacity sorting, and cycle testing of power batteries and energy storage batteries, embedding charge/discharge testing into the entire battery cell manufacturing process.

In 2025, global Battery Cell Charge and Discharge Testing Equipment sales reached approximately 23,413 Units, with an average global market price of around 22.5 K

US\$/Unit. Production capacity reached 25,000 Units, with a gross profit margin of approximately 35%.

The downstream demand for battery cell charge/discharge testing equipment is highly concentrated among lithium battery and new battery manufacturers, as well as OEMs, energy storage system integrators, and third-party testing and certification bodies. OEMs and cell manufacturers utilize multi-channel precision testing systems during the R&D phase to complete material screening, process window locking, and lifetime model calibration. In the mass production phase, the charge/discharge equipment on the formation and capacity testing lines is directly tied to the production line cycle time, making it one of the key pieces of equipment determining yield and consistency. Third-party laboratories and certification bodies perform safety, lifetime, and performance assessments based on standardized testing platforms, providing testing basis for compliance with EU battery regulations, UN regulations on the transport of dangerous goods, and other regulations. Overall, battery cell charge/discharge testing equipment complements upstream power electronics and precision manufacturing, and is deeply coupled with downstream cell and system applications, playing a crucial role in the global battery industry chain, possessing high strategic stickiness and technological iteration value.

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

Global Battery Cell Charge and Discharge Testing Equipment market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Battery Cell Charge and Discharge Testing Equipment market size and

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

Global Battery Cell Charge and Discharge Testing Equipment market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K 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 Cell Charge and Discharge Testing Equipment

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 Cell Charge and Discharge Testing Equipment 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 Wonik PNE, Bitrode, TOYO SYSTEM, Kikusui Electronics, Fujian Nebula Electronics, Meiden Hokuto, Keysight, Suzhou Veichi Electric, Chroma ATE, Wuhan Land Electronics, etc.

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

Market Segmentation

Battery Cell Charge and Discharge Testing Equipment 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

Standard Type

High-Precision Type

Market segment by Voltage

Low and Medium Voltage

High Voltage

Market segment 1

1

Market segment by Application

Automotive Manufacturers

Energy Storage

Electric Tools

Research Institutions

Others

Major players covered

Wonik PNE

Bitrode

TOYO SYSTEM

Kikusui Electronics

Fujian Nebula Electronics

Meiden Hokuto

Keysight

Suzhou Veichi Electric

Chroma ATE

Wuhan Land Electronics

Shenzhen Geektest Technology

Anhui Ruineng Technology

RePower Technology

Shenzhen Sinexcel

Hubei Techpow Electric

Chen Tech Electric

Arbin Instruments

Myway Plus Corporation

Shenzhen Neware Technology

ITECH Electronics

Tsing Standard

Xiamen Tmax Battery Equipments

PEC Corp

NI

Tokyo Seimitsu

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 Cell Charge and Discharge Testing Equipment product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Battery Cell Charge and Discharge Testing Equipment, with price, sales quantity, revenue, and global market share of Battery Cell Charge and Discharge Testing Equipment from 2021 to 2026.

Chapter 3, the Battery Cell Charge and Discharge Testing Equipment competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Battery Cell Charge and Discharge Testing Equipment 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 Cell Charge and Discharge Testing Equipment 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 Cell Charge and Discharge Testing Equipment.

Chapter 14 and 15, to describe Battery Cell Charge and Discharge Testing Equipment sales channel, distributors, customers, research findings and conclusion.

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