

# Global Charge and Discharge Test 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 Charge and Discharge Test Equipment market size was valued at US\$ 757 million in 2025 and is forecast to a readjusted size of US\$ 1053 million by 2032 with a CAGR of 4.9% during review period.

The charge and discharge test equipment can measure the key parameters of batteries or supercapacitors, such as voltage, current, capacity, energy density, internal resistance, cycle life, etc. In addition, it can also perform capacity decay tests on batteries that have been used to a certain extent to determine their remaining service life. The equipment is widely used in the fields of quality inspection, R&D design and production process control of various energy storage devices. In terms of quality inspection, it can determine the capacity, internal resistance, charge and discharge efficiency and other parameters of the battery, so as to avoid low-quality products being misunderstood as high-quality products. In terms of R&D design and production process control, it can be used to test the performance of new energy storage devices and perform product quality control and improvement. The working principle of the charge and discharge test equipment is related to the type of energy storage device being tested. When testing the battery, the charging part connects the power supply to the battery and charges a certain amount of electricity, while the discharging part connects the battery to the load and controls the discharge current of the battery. By measuring the output voltage and load current of the battery, the capacity, energy density and other parameters of the battery can be calculated. The charge and discharge test equipment usually consists of three parts: the power supply part, the load part and the measurement part. These three parts are concentrated in a frame, which is convenient for connecting to external devices such as PCs for operation and data acquisition.

Lithium-ion battery test equipment can be divided into different categories according to different classification standards. According to the different objects of action, it can be divided into battery cell test system, module test system, lithium battery pack test system, etc.; according to the battery pack assembly test process, it includes battery cell sorting test system, charge and discharge test system, protection board test system, wiring harness test system, BMS test system, module EOL test system, battery pack EOL test system, working condition simulation test system, etc.

The charge and discharge test equipment are an indispensable measurement system for charge and discharge cycle tests in battery research and development and quality assurance (sampling/reliability inspection).

From a regional perspective, the production areas of charge and discharge testers in various regions of the world are mainly distributed in China, the United States and Japan. There is little difference between Chinese charge and discharge tester companies and international leading companies in technology and product performance, and they have certain competitiveness in specific application fields. Some companies have also gained a certain market share in the hands of high-voltage testers, such as RePower, Sinexcel, Fujian Nebula, etc.

In terms of different types, the test equipment voltages used in different equipment applications are different. Overall, with the development of the downstream electric vehicle and energy storage markets, high-voltage charge and discharge test equipment occupies a major market share.

On the downstream application side, from the perspective of lithium battery structure, energy storage and new energy vehicles account for a large proportion, and the scale share of the two will reach 74.29% in 2024. In terms of companies, the global charge and discharge tester market is dominated by manufacturers in China, Japan, the United States and South Korea. Different companies target different market segments. For example, Wuhan LAND Electronic is mainly a 5V low-voltage tester, and its end customers are battery manufacturers and scientific research institutions.

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

Global Charge and Discharge Test 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 Charge and Discharge Test 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 Charge and Discharge Test 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 Charge and Discharge Test 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 Charge and Discharge Test 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, ESPEC Corp, RePower Technology, Sinexcel, Chroma, Arbin Instruments, Fujian Nebula Electronics, Wuhan LAND Electronic, Bitrode, TOYO SYSTEM, etc.

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

### **Market Segmentation**

Charge and Discharge Test 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

Low Voltage

Medium Voltage

High Voltage

#### Market segment by Application

Electric Vehicles

Energy Storage System

Consumer Electronics

Power Tool

Others

#### Major players covered

WONIK PNE

ESPEC Corp

RePower Technology

Sinexcel

Chroma

Arbin Instruments

Fujian Nebula Electronics

Wuhan LAND Electronic

Bitrode

TOYO SYSTEM

Kataoka Corporation

Soft Energy Controls

Keysight

Digatron

Hubei Techpow Electric

Maccor

Kikusui Electronics

Chen Tech Electric

Meiden Hokuto Corporation

Neware Technology Limited

Myway Plus Corporation

ITECH Electronics

PEC

NH Research (NI)

Matsusada Precision

TAKASAGO LTD

Accretech Powertro System

Nippon Steel Texeng

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

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

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

Chapter 4, the Charge and Discharge Test 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 Charge and Discharge Test 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 Charge and Discharge Test Equipment.

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

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