

Global Lithium Battery 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 Lithium Battery Charge and Discharge Testing Equipment market size was valued at US\$ 387 million in 2025 and is forecast to a readjusted size of US\$ 641 million by 2032 with a CAGR of 6.2% during review period.

Lithium Battery Charge and Discharge Testing Equipment is a specially designed instrument for testing and evaluating the performance of lithium batteries. It simulates the charging and discharging process of a battery, measures various performance parameters of the battery, such as capacity, efficiency, lifespan, safety, etc., to ensure the reliability and stability of the battery in practical applications. In 2025, global Lithium Battery Charge and Discharge Testing Equipment production reached approximately 7514 units, with an average global market price of around US\$50000 usd per unit. The production capacity for Lithium Battery Charge and Discharge Testing Equipment 2025 was approximately 8000 units. The typical gross profit margin for Lithium Battery Charge and Discharge Testing Equipment between 20% and 40%.

The Lithium Battery Charge and Discharge Testing Equipment market is driven primarily by the rapid expansion of electric vehicles (EVs), battery gigafactories, and grid-scale energy storage. Every lithium-ion cell must undergo formation cycling and performance verification, making testing equipment a mandatory process step in battery manufacturing. The market includes three major segments: R&D precision cyclers, validation/pack testing systems, and large-scale formation and aging equipment, with formation equipment accounting for the largest revenue share. Asia-Pacific?especially China, Japan, and South Korea?dominates demand due to concentrated battery production capacity, while North America and Europe are growing quickly with localized

EV battery manufacturing and regulatory certification requirements.

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

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

Global Lithium Battery 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 (US\$/Unit), 2021-2032

Global Lithium Battery Charge and Discharge Testing Equipment market shares of main players, shipments in revenue (\$ Million), sales quantity (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 Lithium Battery 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 Lithium Battery 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, ESPEC Corp, Chroma ATE, Arbin Instruments, Bitrode (Sovema), TOYO SYSTEM, Soft Energy Controls, Keysight, Digatron, Maccor, etc.

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

Market Segmentation

Lithium Battery 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

Low Voltage Battery Cyclers

Medium Voltage Battery Cyclers

High Voltage Battery Cyclers

Market segment by Battery Type

Single Cells

Module Battery

Others

Market segment by Test type

R&D Cyclers

Validation Cyclers

Formation & Aging Cyclers

Market segment by Application

Electric Vehicles

Energy & Power Storage

Consumer Electronics

Others

Major players covered

WONIK PNE

ESPEC Corp

Chroma ATE

Arbin Instruments

Bitrode (Sovema)

TOYO SYSTEM

Soft Energy Controls

Keysight

Digatron

Maccor

PEC

NH Research (NI)

Matsusada Precision

RePower Technology

Fujian Nebula Electronics

Wuhan LAND Electronic

Hubei Techpow Electric

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

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

Chapter 3, the Lithium Battery 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 Lithium Battery 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 Lithium Battery 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 Lithium Battery Charge and Discharge Testing Equipment.

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

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