

# Global Lithium Battery Charge and Discharge Testing Equipment Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Lithium Battery Charge and Discharge Testing Equipment market size is expected to reach \$ 641 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

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 studies the global Lithium Battery Charge and Discharge Testing Equipment production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Lithium Battery Charge and Discharge Testing Equipment 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 Lithium Battery Charge and Discharge Testing Equipment that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Lithium Battery Charge and Discharge Testing Equipment total production and demand, 2021-2032, (Units)

Global Lithium Battery Charge and Discharge Testing Equipment total production value, 2021-2032, (USD Million)

Global Lithium Battery Charge and Discharge Testing Equipment production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Lithium Battery Charge and Discharge Testing Equipment consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Lithium Battery Charge and Discharge Testing Equipment domestic production, consumption, key domestic manufacturers and share

Global Lithium Battery Charge and Discharge Testing Equipment production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Lithium Battery Charge and Discharge Testing Equipment production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Lithium Battery Charge and Discharge Testing Equipment production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Lithium Battery Charge and Discharge Testing Equipment 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Lithium Battery Charge and Discharge Testing Equipment market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Lithium Battery Charge and Discharge Testing Equipment Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Lithium Battery Charge and Discharge Testing Equipment Market, Segmentation by Type:

Low Voltage Battery Cyclers

Medium Voltage Battery Cyclers

## High Voltage Battery Cyclers

Global Lithium Battery Charge and Discharge Testing Equipment Market, Segmentation by Battery Type:

Single Cells

Module Battery

Others

Global Lithium Battery Charge and Discharge Testing Equipment Market, Segmentation by Test type:

R&D Cyclers

Validation Cyclers

Formation & Aging Cyclers

Global Lithium Battery Charge and Discharge Testing Equipment Market, Segmentation by Application:

Electric Vehicles

Energy & Power Storage

Consumer Electronics

Others

Companies Profiled:

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

### **Key Questions Answered:**

1. How big is the global Lithium Battery Charge and Discharge Testing Equipment market?
2. What is the demand of the global Lithium Battery Charge and Discharge Testing Equipment market?

3. What is the year over year growth of the global Lithium Battery Charge and Discharge Testing Equipment market?
4. What is the production and production value of the global Lithium Battery Charge and Discharge Testing Equipment market?
5. Who are the key producers in the global Lithium Battery Charge and Discharge Testing Equipment market?
6. What are the growth factors driving the market demand?

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