

# Global Battery Cycle Life Tester Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G7781AADFBA7EN.html>

Date: April 2026

Pages: 144

Price: US\$ 4,480.00 (Single User License)

ID: G7781AADFBA7EN

## Abstracts

The global Battery Cycle Life Tester market size is expected to reach \$ 932 million by 2032, rising at a market growth of 5.8% CAGR during the forecast period (2026-2032).

A Battery Cycle Life Tester is an electrochemical testing system that repeatedly charges and discharges a battery under controlled voltage, current, temperature, and cutoff conditions to evaluate its durability and degradation behavior over hundreds to thousands of cycles. The instrument records capacity retention, coulombic efficiency, internal resistance, and failure mechanisms, allowing engineers to determine battery lifetime, reliability, and safety performance. It is widely used in lithium-ion cell R&D, EV battery validation, energy-storage certification, and manufacturing quality control, and typically includes programmable channels, high-precision measurement units, and data acquisition software. In 2025, global Battery Cycle Life Tester production reached approximately 11514 units, with an average global market price of around US\$50000 per unit. The production capacity for Battery Cycle Life Tester 2025 was approximately 12000 units. The typical gross profit margin for Battery Cycle Life Tester between 20% and 40%.

The Battery Cycle Life Tester market is driven by the rapid expansion of electric vehicles, grid-scale energy storage, and next-generation batteries such as solid-state and sodium-ion technologies. As global battery manufacturing capacity grows, demand is shifting from laboratory-scale testers toward high-channel formation and aging systems used in gigafactories. Automotive qualification standards, safety regulations, and warranty validation requirements are further increasing the need for long-term cycling verification. Asia-Pacific, led by China, Japan, and South Korea, dominates installations due to large battery cell production, while North America and Europe show strong growth from EV OEM validation laboratories and certification centers. Future

trends include regenerative energy-feedback cyclers, high-power pack-level testing, and AI-based degradation analysis.

This report studies the global Battery Cycle Life Tester production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Battery Cycle Life Tester 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 Battery Cycle Life Tester that contribute to its increasing demand across many markets.

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

Global Battery Cycle Life Tester total production and demand, 2021-2032, (K Units)

Global Battery Cycle Life Tester total production value, 2021-2032, (USD Million)

Global Battery Cycle Life Tester production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Battery Cycle Life Tester consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Battery Cycle Life Tester domestic production, consumption, key domestic manufacturers and share

Global Battery Cycle Life Tester production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Battery Cycle Life Tester production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Battery Cycle Life Tester production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Battery Cycle Life Tester 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 Battery Cycle Life Tester market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (K 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 Battery Cycle Life Tester Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Battery Cycle Life Tester Market, Segmentation by Type:

Low Voltage Battery Cyclers

Medium Voltage Battery Cyclers

High Voltage Battery Cyclers

### Global Battery Cycle Life Tester Market, Segmentation by Battery Type:

Single Cells

Module Battery

Others

Global Battery Cycle Life Tester Market, Segmentation by Test type:

R&D Cyclers

Validation Cyclers

Formation & Aging Cyclers

Global Battery Cycle Life Tester 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 Battery Cycle Life Tester market?
2. What is the demand of the global Battery Cycle Life Tester market?
3. What is the year over year growth of the global Battery Cycle Life Tester market?
4. What is the production and production value of the global Battery Cycle Life Tester market?
5. Who are the key producers in the global Battery Cycle Life Tester market?
6. What are the growth factors driving the market demand?

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