

Global Solid-state Micro Batteries Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Solid-state Micro Batteries market size is expected to reach \$ 467 million by 2032, rising at a market growth of 16.8% CAGR during the forecast period (2026-2032).

In 2025, global Solid-state Micro Batteries production reached approximately 12,000 K units, with an average global market price of around 12.5 US\$/unit.

Solid-State Micro Batteries are miniaturized rechargeable batteries that use solid or quasi-solid electrolytes instead of conventional liquid electrolytes, usually built in thin-film, ceramic, laminated, or SMD chip-type structures. They are designed to provide compact, safe, and stable power for small electronic devices such as IoT sensors, medical implants, smart cards, wearables, wireless tags, MEMS devices, and backup power modules. Compared with traditional coin cells or liquid-electrolyte micro batteries, solid-state micro batteries offer better leakage resistance, improved safety, longer shelf life, thinner form factors, and stronger compatibility with automated electronic assembly processes such as surface mounting.

Demand for Solid-State Micro Batteries is increasing as electronic devices become smaller, smarter, and more integrated, especially in IoT, medical electronics, wearables, smart labels, industrial sensors, and energy-harvesting systems. Their business opportunity lies in solving the limitations of conventional micro power sources, including electrolyte leakage, limited design flexibility, low heat tolerance, and difficulty integrating directly onto circuit boards. Manufacturers with strong capabilities in solid electrolyte materials, thin-film deposition, ceramic packaging, high-density stacking, and SMD-compatible production can capture higher-value opportunities in medical-grade devices, maintenance-free sensors, smart cards, and ultra-compact wireless electronics. As downstream customers require safer, thinner, longer-life, and reflow-compatible power

solutions, solid-state micro batteries are expected to move from niche applications toward broader adoption in next-generation connected devices.

This report studies the global Solid-state Micro Batteries production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Solid-state Micro Batteries 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 Solid-state Micro Batteries that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Solid-state Micro Batteries total production and demand, 2021-2032, (K Units)

Global Solid-state Micro Batteries total production value, 2021-2032, (USD Million)

Global Solid-state Micro Batteries production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Solid-state Micro Batteries consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Solid-state Micro Batteries domestic production, consumption, key domestic manufacturers and share

Global Solid-state Micro Batteries production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Solid-state Micro Batteries production by Battery Structure, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Solid-state Micro Batteries production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Solid-state Micro Batteries 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 TDK Corporation, ITEN, Ilika plc, Ensurge Micropower ASA, Maxell, Ltd., NGK Insulators, Ltd., Cymbet Corporation, Murata Manufacturing Co., Ltd., FDK Corporation, Excellatron Solid State, LLC, 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 Solid-state Micro Batteries market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Battery Structure, 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 Solid-state Micro Batteries Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Solid-state Micro Batteries Market, Segmentation by Battery Structure:

Thin-Film Solid-State Micro Battery

Ceramic SMD Solid-State Micro Battery

Laminated Solid-State Micro Battery

Printed Solid-State Micro Battery

Stacked Solid-State Micro Battery

Others

Global Solid-state Micro Batteries Market, Segmentation by Electrolyte System:

Oxide Solid Electrolyte

Sulfide Solid Electrolyte

Polymer Solid Electrolyte

Hybrid Solid Electrolyte

Others

Global Solid-state Micro Batteries Market, Segmentation by Capacity Range:

Ultra-Low Capacity Type: Below 100 μ Ah

Low Capacity Type: 100 μ 500 μ Ah

Medium Capacity Type: 500 μ Ah5 mAh

High Capacity Type: 550 mAh

Ultra-High Capacity Type: Above 50 mAh

Global Solid-state Micro Batteries Market, Segmentation by Application:

Medical Devices

Wearable Electronics

Industrial IoT and Wireless Sensors

Smart Cards and Smart Labels

Consumer Electronics

MEMS and Microelectronics

Energy Harvesting Systems

Aerospace and Defense

Others

Companies Profiled:

TDK Corporation

ITEN

Ilika plc

Ensurge Micropower ASA

Maxell, Ltd.

NGK Insulators, Ltd.

Cymbet Corporation

Murata Manufacturing Co., Ltd.

FDK Corporation

Excellatron Solid State, LLC

Front Edge Technology, Inc.

Fuyang Solid State Energy Storage Technology (Liyang) Co., Ltd.

Guangdong Mic-Power New Energy Co., Ltd.

Key Questions Answered:

1. How big is the global Solid-state Micro Batteries market?
2. What is the demand of the global Solid-state Micro Batteries market?
3. What is the year over year growth of the global Solid-state Micro Batteries market?
4. What is the production and production value of the global Solid-state Micro Batteries market?
5. Who are the key producers in the global Solid-state Micro Batteries market?
6. What are the growth factors driving the market demand?

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