

# Thin Film Battery Market Size, Share & Trends Analysis Report By Voltage (Below 1.5V, Above 3V), By Battery Type (Disposable, Rechargeable), By Application (Medical, Smart Cards, Wearables), And Segment Forecasts, 2025 - 2030

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## Abstracts

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### Thin Film Battery Market Growth & Trends

The global thin film battery market size is expected to reach USD 2.93 billion in 2030 and is projected to grow at a CAGR of 10.9% from 2025 to 2030. Growing demand from applications, such as medical tracking and smartwatches, is likely to boost the market growth. Thin-film battery has high demand owing to its small size and low weight. Moreover, it does not contain harmful chemicals and is resistant to explosion and fire. Furthermore, growing product demand to provide power for small form-factor devices is a major driving factor for the market growth in the medical and wearables applications.

Therefore, key players in the market are focusing on technological advancements and to increase service quality and efficiency. With customers being more tech-savvy, the demand for such electronic devices is expected to increase over the forecast years. Increasing usage of devices, such as fitness bands and smartwatches, is making the demand and supply for thin-film batteries even more proper. These factors are expected to boost the growth of the market in the forecast period.

### Thin Film Battery Market Report Highlight

Rechargeable batteries is estimated to emerge as the fastest-

growing segment over the forecast period owing to the use of these products in wearable devices like smartwatches

Below 1.5 V voltage segment dominated the market and accounted for the largest revenue share of 45.1% in 2024. owing to high usage of 1.5V batteries in low-power applications like medical patches, micro-sensors, and toys

Wearables was the largest application segment in 2024 owing to increased demand for these devices in developed as well as in developing countries

North America led the global market in 2024 accounting for the highest revenue share. This growth was attributed to increased demand for smart cards from various end-use segments coupled with increased adoption of thin-film batteries for medical application

The thin film battery market in Asia Pacific is expected to grow at a CAGR of 13.7% from 2025 to 2030 owing to a large consumer base in countries, such as India, China, Japan, and Australia, coupled with a rise in demand for wearable devices in the region

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