

Thin Film and Printed Battery Market Size and Forecast (2021 - 2031), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Voltage Rating (Below 1.5 V, 1.5-3 V, and Above 3 V), Chargeability (Rechargeable and Single-Use), Application (Consumer Electronics, Medical Devices, Smart Packaging, Smart Cards, Wireless Sensors, and Others), and Geography"

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Abstracts

The thin film and printed battery market is expected to grow from US\$ 197.31 million in 2023 to US\$ 904.94 million by 2031; it is estimated to record a CAGR of 21.0% from 2023 to 2031.

The expansion of the healthcare industry presents a significant opportunity for the thin film and printed battery market growth during the forecast period. The thin film and printed batteries are ready to enter a new era with the advent of solid-state lithium technology, which allows for increased energy density in smaller form factors. This breakthrough in battery technology presents significant opportunities for the MedTech industry, enabling the development of smaller and more ergonomic product designs and propelling the growth of the market. The implications of this advancement are profound, particularly in the convergence of wearables and over-the-counter (OTC) hearing aids, as well as the creation of wearable devices for remote health monitoring and fitness tracking. These advancements have the potential to revolutionize the MedTech industry, enhancing product capabilities and improving user experiences. The emergence of over-the-counter (OTC) hearing aids in the US is one such example of the transformative shifts occurring in the hearables and medical remote-monitoring and fitness-tracking

wearables. This move toward OTC classification is anticipated to drive down the costs of hearing aids while stimulating innovation and competition within the industry. Thus, the growing need for thin film batteries for the production of medical devices has become an important thin film and printed battery market trend worldwide.

According to the thin film and printed battery market forecast, the US will experience notable growth due to the ever-increasing demand for high-speed data transmission driven by the proliferation of smart devices and the rise of the Internet of Things (IoT). Thin film and printed batteries offer the necessary energy density and longevity for these devices, driving their adoption across the country. Furthermore, there has been a significant investment from key players and government bodies, which, in turn, is propelling the thin film and printed battery market growth in the region. For instance, in June 2021, the Department of Energy unveiled the National Blueprint for Lithium Batteries 2021 to 2030, which included a specific goal to stimulate the manufacturing sectors related to electrodes, cells, and battery packs in the US. Additionally, the administration has committed to strengthen requirements for procuring batteries from American-made sources. Thus, all the above factors are expected to contribute to the growing thin film and printed battery market size during the forecast period.

Molex LLC, Varta AG, Renata SA, Enfucell Flexible Electronics Ltd, STMicroelectronics, Samsung SDI Co Ltd, Excellatron Solid State LLC, Ultralife Corporation, Ilika, and Imprint Energy are among the key players profiled in the thin film and printed battery market report. These market players provide these batteries for various applications. For example, Varta AG offers a diverse range of thin film and printed batteries, which empower a broad spectrum of intelligent applications across various industries. These applications include traceability, safeguarding of goods, nano-technology, IoT devices, intelligent medicine, and smart sports. Several other major players were also studied and analyzed in the thin film and printed battery market report to get a holistic view of the market and its ecosystem.

- In November 2022, STMicroelectronics announced that it had begun limited production of EnFilm's advanced rechargeable batteries, which are less than 0.25 mm thick. At 220 μm thickness and measurements of 25.7 mm x 25.7 mm, the SST EFL700A39 EnFilm solid-state thin film lithium battery is ideal for use in ultra-low-profile devices. With a nominal voltage of 3.9 V and a capacity of 0.7 mAh, the EFL700A39 can be used for a wide range of applications. Its lithium technology charges quickly through a 4.2 V charging circuit and shows low capacity loss and long cycle life, which can be used for about 10 years if charged once a day.

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