

Mic-power Solid Electrolyte Technology Paves the Way to Solid State Batteries

Chemistry breakthrough improves safety, performance and enables new applications

CES Booth #9063 North Hall

January 9, 2024 – Mic-power has announced availability of the industry's first mass production solid electrolyte battery, illustrating how the industry can make steps towards realizing the long term industry vision of full solid state rechargeable batteries.

Mic-power's own proprietary electrolyte formula gives the rechargeable battery cells a much higher than typical safety performance, compared with liquid electrolyte lithium-ion batteries of the same dimensions. As batteries used in everyday rechargeable devices, solid electrolyte batteries from Mic-power can function safely even above 80°C. In high discharge or short circuit conditions, solid electrolyte batteries heat up many tens of degrees less than their liquid electrolyte counterparts.

Jason Chen, CEO of Mic-power, said, "Since the inception of Mic-power in 2018, we have continually studied solid state battery technology and the benefits it can bring. With this announcement, Mic-power is very proud to be the first to mass produce a battery that is solid state and offers such benefits in performance."

Shown here: Mic-power's size 11390 size solid electrolyte battery.



Unlike liquid-based lithium-ion batteries, Mic-power uses a proprietary electrolyte which is transformed into a stiff putty in production. In addition, Mic-power's solid state electrolyte batteries are manufactured using existing production lines, which helps keep them priced similarly to their liquid counterparts.

This comparatively high tolerance to extreme temperature and high discharge rate endurance is new to the industry, and potentially important for toys and many other consumer electronics products.

About Mic-power

Mic-power is a leading solutions provider of small lithium polymer rechargeable batteries and battery pack solutions used in smart wearable, TWS-class audio devices, consumer electronics products, robot appliances, medical devices, and energy storage systems. Mic-power is a technology-driven company striving to provide the world's most advanced rechargeable batteries. We hold a portfolio of patents for our standard battery models, which include coin cell, cylindrical cell, pin cell, pouch cell, and solid state technology cell batteries. Our fully automated manufacturing infrastructure can produce 500,000 batteries and battery packs per day while ensuring quality through automation and testing. In addition to our high-capacity manufacturing infrastructure, we also can help design and quickly produce sample batteries in small quantities for prototyping.



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