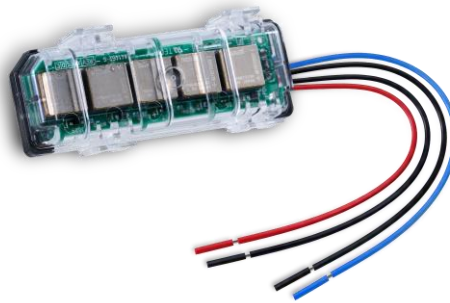


October 14, 2026

Maxell, Ltd.

Maxell Begins Mass Production of All-Solid-State Battery Backup Modules for Industrial Equipment

Power Supply Module Incorporating All-Solid-State Battery Helps
Reduce Maintenance Workload and Improve Equipment Maintainability



All-Solid-State Battery Backup Module

Maxell, Ltd. (President and Representative Director: Keiji Nakamura / hereinafter “Maxell”) will begin mass production of its “All-Solid-State Battery Backup Module” incorporating the ceramic packaged all-solid-state battery, PSB401010H, and will start sales in Japan for industrial equipment applications in early November.

Maxell has been conducting field tests*¹ of power supply modules incorporating its all-solid-state batteries in manufacturing equipment at customers’ factories since 2024, with the aim of reducing the workload associated with battery replacement at production sites. The tests confirmed stable backup performance under actual manufacturing conditions, and customers highly valued the modules for their ability to improve equipment maintainability. Based on these results, Maxell developed four models of the All-Solid-State Battery Backup Module.

In industrial equipment for factory automation (FA), such as industrial robots and programmable logic controllers (PLC), non-rechargeable primary batteries, including lithium thionyl chloride batteries (ER batteries) and lithium manganese dioxide batteries (CR batteries) are commonly used as backup power sources for memory and real-time clocks (RTC) during power outages.

However, primary batteries require periodic replacement, and the equipment downtime associated with battery replacement work can reduce the operating efficiency of production lines. In addition, depending on the operating environment, primary batteries may reach the end of their service life earlier than expected. As a result, regular checks of battery capacity and replacement timing are required, placing a burden on maintenance and servicing operations.

For these reasons, there has been a growing need to improve maintainability.

The module is available with output voltages corresponding to those of ER batteries (3.6 V) and CR batteries (3.0 V), which are widely used as backup power sources. Two battery capacity options are available for each voltage type, offering a lineup of four models that can be selected according to the application. The all-solid-state battery incorporated into the module has an expected service life of more than 10 years^{*2}. As a result, the module is expected to reduce the labor associated with primary battery replacement and the risk of downtime caused by unexpected battery depletion. In addition, the module can operate at temperatures of up to 85°C.

Maxell will exhibit the module at Maintenance Munich 2026 (October 14-15, 2026; MOC – Event Center Messe München, Germany), Measurement & Control Show NEXT 2026 (October 21-23, 2026; Grand Cube Osaka, Japan), and Factory Innovation Week NAGOYA (November 25-27, 2026; Aichi Sky Expo, Japan).

Under its corporate byline, “Micro batteries. Maximum impact.”, Maxell embodies the belief that small batteries can create great value. Moving forward, leveraging four pillars of high reliability, high heat resistance, high power output, and large capacity, Maxell aims to commercialize batteries that can be used in the fields where conventional batteries have not been suitable, and contribute to the resolution of social challenges and the realization of a sustainable society.

*1 field tests: Reference News Release

Maxell News Release dated August 18, 2025, “Maxell’s All-Solid-State Battery Modules Installed in Industrial Robots at Subaru Plant - Test Operations Began in August”

https://ssl4.eir-parts.net/doc/6810/ir_material4/257670/00.pdf

Maxell News Release dated January 28, 2026, “Test Deployment of Industrial Robots Powered by Maxell’s All-Solid-State Battery Power Modules Begins at Kyocera’s Kagoshima Sendai Plant”

https://ssl4.eir-parts.net/doc/6810/ir_material4/272181/00.pdf

*2 expected service life of more than 10 years: Expected service life varies depending on the operating environment.

All-solid-state battery webpage

https://biz.maxell.com/en/rechargeable_batteries/allsolidstate.html

Trademarks

The names, logos, and service marks mentioned herein are registered trademarks or trademarks of Maxell or their respective companies.

Contacts

Marketing & Sales Div., Maxell, Ltd.

https://biz.maxell.com/en/rechargeable_batteries/inquiry_form_input1.html

Appendix

Outline Specifications of All-Solid-state Battery Backup Module

Items	SBM-GP24-36	SBM-GP40-36	SBM-GP24-30	SBM-GP40-30
Input Voltage(V)	DC4.5 ~ 26.4			
Output Voltage(V)	DC3.6		DC3.0	
Nominal Capacity (mAh)	11	18	13	22
Operating Temperature (°C)	-10 ~ +85°C			
Expected Service Life	10 years or more (Varies depending on the operating environment.)			
Dimensions (mm)	Width 70 x Depth 29 x Height 17			

Sufficient verification is required with the industrial equipment (FA equipment) for which this product will be used. Please contact us for details.