

Press Information

Test deployment of industrial robots powered by Maxell's all-solid-state battery power modules begins at Kyocera's Kagoshima Sendai Plant

Kyoto/London, 29th January 2026. Kyocera Corporation and Maxell, Ltd. started running test operations as of December 2025, installing power modules utilizing Maxell's all-solid-state battery "PSB401010H" in industrial robots and controllers at Kyocera's Kagoshima Sendai Plant, one of its semiconductor ceramic package production sites.

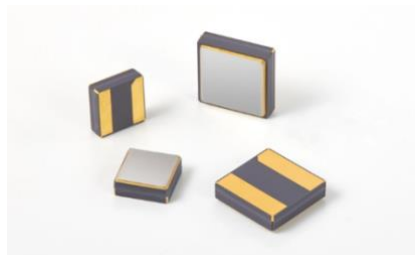


Exterior view of Kyocera's Kagoshima Sendai plant



Maxell's all-solid-state battery power module

The ceramic-packaged all-solid-state batteries produced by Maxell feature high reliability¹, and their exterior housings adopt ceramic packages manufactured by Kyocera. With its superior heat resistance and hermeticity², this package contributes to the high reliability¹ of all-solid-state batteries, exceeding that of conventional batteries using liquid electrolytes.



Ceramic-packaged all-solid-state battery

¹ High reliability, high safety: For more details, please visit Maxell's all-solid-state battery website. https://biz.maxell.com/en/rechargeable_batteries/allsolidstate.html

² Heat resistance and hermeticity: For more details, please visit Kyocera's case studies website. https://global.kyocera.com/prdct/semicon/lp/smallbattery_pkg/index.html



In the manufacturing processes of industrial products, the majority of industrial robots use power modules equipped with primary (non-rechargeable) batteries for memory retention during power outages and for real-time clock (RTC) functions to support factory automation. Power modules that use primary batteries generally require replacement every one to two years, and the used batteries become industrial waste each time.

Replacing primary batteries with a rechargeable all-solid-state battery PSB401010H provides over 10 years of service life, reduces battery replacements and waste, and maintains high safety¹ even in harsh manufacturing environments.

Based on test operations conducted at its factories, Kyocera will consider introducing technologies that further reduce maintenance requirements and lower environmental impact at its manufacturing sites.

Leveraging its analog core technologies, Maxell will continue to advance the development of high-performance and highly reliable all-solid-state batteries and modules along Four Key axes—high reliability, high heat resistance, high output, and large power supply capacity—targeting not only existing applications but also new application areas where conventional batteries could not be used, with the aim of addressing a wide range of societal challenges.

Kyocera and Maxell will further strengthen their cooperation in the field of all-solid-state batteries and related technologies, contributing to the resolution of societal challenges in a broad range of applications, including industrial uses.

Trademarks

The company names and product names mentioned herein are trademarks or registered trademarks of their respective companies.

About Maxell

[Maxell, Ltd.](#) is a manufacturer of electronic devices with over 60 years of history, headquartered in Kyoto, Japan. Leveraging its unique Analog Core Technologies — “Mixing & Dispersion,” “Fine Coating,” and



“High-Precision Molding & Forming” — which have been cultivated since its founding, Maxell responds to customer needs for miniaturization, refinement, and higher density solutions by manufacturing and selling a wide range of products, including industrial batteries (such as all-solid-state batteries), adhesive tapes (including tapes for semiconductor manufacturing processes), and automotive optical components (such as LED headlamp lenses).



Kyocera ceramic package website:

<https://global.kyocera.com/prdct/semicon/>

Maxell all-solid-state battery website:

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

Contact information for inquiries regarding Maxell's all-solid-state batteries

New Business Producing Div., Maxell, Ltd

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

The press material is available for download via the following link:

<https://spgroup.box.com/s/4zok02rf2ez8f5u1bvmruidggspwv784>



For more information on Kyocera: uk.kyocera.com

About Kyocera

Kyocera has been successful in Europe for over 50 years. From its European headquarters in Esslingen am Neckar, KYOCERA Europe GmbH operates 29 sites including manufacturing facilities, with products ranging from fine ceramics, automotive, semiconductor and optical components to components for medical products, industrial tools, LCDs, touch solutions, industrial printing components, and consumer goods such as kitchen and office products.

KYOCERA Europe GmbH is a company of the [KYOCERA Corporation](#) headquartered in Kyoto/Japan, a renowned supplier in semiconductor, industrial and automotive components as well as electronic components, printing and multifunction systems, smart energy systems, and communications technology. Kyocera is one of the most experienced technology producers, with more than 65 years of industry expertise. The Kyocera Group comprises 288 subsidiaries (31 March 2025). With around 77,200 employees, Kyocera generated net annual sales of around EUR 12.43 billion in the 2024/2025 fiscal year.

Kyocera is ranked 1,123 on Forbes magazine's 'Global 2000' list for 2025 and ranked as 'The 100 Most Sustainably Managed Companies in the World' according to the Wall Street Journal. For the fourth time Kyocera has received an A ranking on the CDP A List for their performance on climate change. Kyocera has also received a silver rating in the EcoVadis Sustainability Survey and was acknowledged as a 'Top 100 Global Innovator 2026' for the tenth time by Clarivate, being one of the world's leading innovators.

Kyocera also takes an active interest in cultural affairs. The Kyoto Prize, a prominent international award, is presented each year by the Inamori Foundation – established by Kyocera founder Dr Kazuo Inamori – to individuals worldwide who have contributed significantly to the scientific, cultural, and spiritual betterment of humankind (equivalent to approximately €539,000 per prize category).

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