

VW-backed Gotion launches Gnascent sodium-ion battery

18-May-2026 11:02 GMT

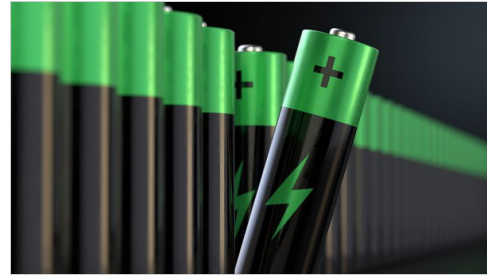
IHS Markit

S&P Global

Supply Chain and Technology, Automotive

The Gnascent range targets applications from low-altitude light mobility to cold-climate commercial use and long-life energy storage, supported by large-scale production lines and extensive patents

Gotion High-Tech, a leading Chinese battery maker backed by VW, officially launched its dedicated sodium-ion battery brand Gnascent at its 15th Global Technology Conference, where it introduced three specialized versions of the battery.



Source: Getty Images/Andy

Gotion said that it has already established gigawatt-hour (GWh) scale production lines for these products in Tangshan and Hefei in mainland China.

The Gnascent lineup includes a high-energy version with an energy density of 261 Wh/kg, which represents a 60% increase over traditional sodium-ion batteries and is aimed at weight-sensitive applications such as light electric vehicles (EVs) and drones in the low-altitude economy.

The power version has an energy density of 162 Wh/kg and supports ultra-low temperature discharge down to -50°C , targeting winter performance challenges for commercial vehicles and outdoor equipment in extremely cold regions.

The energy storage version features a single-cell capacity of 180Ah, a cycle life exceeding 20,000 cycles, maintains 88% capacity at -40°C , and has passed safety tests including an 8mm steel nail penetration test and 400°C high-temperature heating without ignition.

Gotion High-Tech's strategic goal for Gnascent is to achieve large-scale application in grid-side, industrial, and residential energy storage, while also exploring niche markets such as two-wheelers and start-stop power supplies. Gnascent's technological foundation is supported by over 90 patents covering cathode materials, including layered oxides, polyanions, and sodium manganese iron pyrophosphate, as well as hard carbon anodes and electrolyte additives. An anode-less design is noted for helping to reduce material costs while boosting energy density.

Founded in 2006 and headquartered in Hefei, Gotion High-Tech has developed into a vertically integrated global energy solution provider with VW Group as its largest shareholder. By the end of 2025, the company's energy storage capacity had reached 400 GWh, supported by 20 manufacturing bases worldwide.

In China, Gotion High-Tech is the leading power battery supplier after CATL and BYD last month. In April, its installed battery capacity reached 4.05GWh, accounting for a 6.6% market share. As sodium-ion technology matures, Gotion High-Tech joins other industry giants, including CATL and BYD, in accelerating the deployment of sodium-based solutions.

This content may be AI-assisted and is composed, reviewed, edited and approved by S&P Global.

CONTACTS

The Americas

+1 877 863 1306

Europe, Middle East & Africa

+44 20 7176 1234

Asia-Pacific

+852 2533 3565

www.spglobal.com/mobility

Copyright © 2025 S&P Global Inc. All rights reserved.

These materials, including any software, data, processing technology, index data, ratings, credit-related analysis, research, model, software or other application or output described herein, or any part thereof (collectively the “Property”) constitute the proprietary and confidential information of S&P Global Inc its affiliates (each and together “S&P Global”) and/or its third party provider licensors. S&P Global on behalf of itself and its third-party licensors reserves all rights in and to the Property. These materials have been prepared solely for information purposes based upon information generally available to the public and from sources believed to be reliable.

Any copying, reproduction, reverse-engineering, modification, distribution, transmission or disclosure of the Property, in any form or by any means, is strictly prohibited without the prior written consent of S&P Global. The Property shall not be used for any unauthorized or unlawful purposes. S&P Global’s opinions, statements, estimates, projections, quotes and credit-related and other analyses are statements of opinion as of the date they are expressed and not statements of fact or recommendations to purchase, hold, or sell any securities or to make any investment decisions, and do not address the suitability of any security, and there is no obligation on S&P Global to update the foregoing or any other element of the Property. S&P Global may provide index data. Direct investment in an index is not possible. Exposure to an asset class represented by an index is available through investable instruments based on that index. The Property and its composition and content are subject to change without notice.

THE PROPERTY IS PROVIDED ON AN “AS IS” BASIS. NEITHER S&P GLOBAL NOR ANY THIRD PARTY PROVIDERS (TOGETHER, “S&P GLOBAL PARTIES”) MAKE ANY WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, FREEDOM FROM BUGS, SOFTWARE ERRORS OR DEFECTS, THAT THE PROPERTY’S FUNCTIONING WILL BE UNINTERRUPTED OR THAT THE PROPERTY WILL OPERATE IN ANY SOFTWARE OR HARDWARE CONFIGURATION, NOR ANY WARRANTIES, EXPRESS OR IMPLIED, AS TO ITS ACCURACY, AVAILABILITY, COMPLETENESS OR TIMELINESS, OR TO THE RESULTS TO BE OBTAINED FROM THE USE OF THE PROPERTY. S&P GLOBAL PARTIES SHALL NOT IN ANY WAY BE LIABLE TO ANY RECIPIENT FOR ANY INACCURACIES, ERRORS OR OMISSIONS REGARDLESS OF THE CAUSE. Without limiting the foregoing, S&P Global Parties shall have no liability whatsoever to any recipient, whether in contract, in tort (including negligence), under warranty, under statute or otherwise, in respect of any loss or damage suffered by any recipient as a result of or in connection with the Property, or any course of action determined, by it or any third party, whether or not based on or relating to the Property. In no event shall S&P Global be liable to any party for any direct, indirect, incidental, exemplary, compensatory, punitive, special or consequential damages, costs, expenses, legal fees or losses (including without limitation lost income or lost profits and opportunity costs or losses caused by negligence) in connection with any use of the Property even if advised of the possibility of such damages. The Property should not be relied on and is not a substitute for the skill, judgment and experience of the user, its management, employees, advisors and/or clients when making investment and other business decisions.

The S&P Global logo is a registered trademark of S&P Global, and the trademarks of S&P Global used within this document or materials are protected by international laws. Any other names may be trademarks of their respective owners.

The inclusion of a link to an external website by S&P Global should not be understood to be an endorsement of that website or the website’s owners (or their products/services). S&P Global is not responsible for either the content or output of external websites. S&P Global keeps certain activities of its divisions separate from each other in order to preserve the independence and objectivity of their respective activities. As a result, certain divisions of S&P Global may have information that is not available to other S&P Global divisions. S&P Global has established policies and procedures to maintain the confidentiality of certain nonpublic information received in connection with each analytical process. S&P Global may receive compensation for its ratings and certain analyses, normally from issuers or underwriters of securities or from obligors. S&P Global reserves the right to disseminate its opinions and analyses. S&P Global Ratings’ public ratings and analyses are made available on its sites, www.spglobal.com/ratings (free of charge) and www.capitaliq.com (subscription), and may be distributed through other means, including via S&P Global publications and third party redistributors.