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Amprius Unveils Industry Leading Ultra-High-Power-High-Energy Lithium-ion Battery, Advancing Aviation and Electric Vehicle Performance

Next-Generation Cell Redefines Electric Mobility with Unrivaled Power and Energy Efficiency

FREMONT, Calif.--(BUSINESS WIRE)-- **Amprius Technologies, Inc. ("Amprius" or the "Company") (NYSE: AMPX)**, a leader in next-generation lithium-ion batteries with its Silicon Anode Platform, is continuing to pioneer innovative battery technology with its newest ultra-high-power-high-energy lithium-ion battery. Leveraging the company's advanced material system capability, the cell achieves an impressive discharge rate of 10C while delivering 400 Wh/kg energy density, a major advancement for electric aviation encompassing both crewed and uncrewed aerial systems – a market projected to be collectively over $49 billion USD by 2025.

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(Photo: Amprius)

The cell's extraordinary power output brings unprecedented benefits to the electric vertical takeoff and landing aircraft (eVTOL) and unmanned aerial vehicle (UAV) industries, providing unmatched propulsion power and energy to meet the rigorous demands during takeoff, cruise, and landing. Moreover, it extends flight range by as much as 50% and increases payload capacity. The new cell's groundbreaking capabilities extend to high-performance EVs, potentially enabling them to achieve 0 to 60 mph (0 to 97 km/h) acceleration below 1.5-seconds, redefining performance standards in the EV industry, projected to reach $67B by 2025.

"Commercial opportunities in electric mobility are profoundly impacted by their power and energy requirements," said Dr. Kang Sun, Chief Executive Officer of Amprius. "Our new cell delivers impressive specific power and energy density performance, approximately 200% higher than traditional graphite cells, while achieving a 10C discharge rate, significantly expanding application possibilities and driving cost-effectiveness."

With an impressive power density of 3500 W/kg in standard discharge conditions and a maximum power exceeding 4400 W/kg at lower depths-of-discharge, the cell's usable discharge capability is extended. It supports high current pulses at low states of charge without going below the lower cut-off voltage, namely 3000 W/kg at 30% depths-of-discharge. The combination of high energy density and high-power density reduces battery weight and volume, leading to extended range, reduced charging frequency, and lower operating costs.

In addition, the new ultra-high-power cell boasts an ultra-fast charging (UFC) capability, reaching 80 percent charge in approximately six minutes or less, transforming mission-critical operations with swift turnaround times.

Amprius remains dedicated to providing batteries that are a key component required to advance electric mobility. Amprius expects to have samples of this cell available for customers by the end of 2023 with the commercialization of the new cells slated for early 2024.

About Amprius Technologies, Inc.

Amprius Technologies, Inc. is a leading manufacturer of high-energy and high-power lithium-ion batteries producing the industry's highest known energy density cells. The company's commercially available batteries deliver up to 450 Wh/kg and 1,150 Wh/L. The company's corporate headquarters is in Fremont, California where it maintains an R&D lab and a pilot manufacturing facility for the fabrication of silicon anodes and cells. To serve customer demand, Amprius recently entered into a lease agreement for an approximately 774,000 square foot facility in Brighton, Colorado. For additional information, please visit amprius.com. Also, see the company's LinkedIn and Twitter pages.

Forward-Looking Statements

This press release includes "forward-looking statements" within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934, each as amended. Forward-looking statements may be identified by the use of words such as "estimate," "plan," "project," "forecast," "intend," "expect," "anticipate," "believe," "seek" or other similar expressions that predict or indicate future events or trends or that are not statements of historical matters. These forward-looking statements include, but are not limited to, statements regarding future product commercialization; and the potential application and performance of Amprius' batteries. These statements are based on various assumptions, whether or not identified in this press release, and on the current expectations of Amprius' management and are not predictions of actual performance. Actual results could differ materially from these forward-looking statements as a result of certain risks and uncertainties. These forward-looking statements are subject to a number of risks and uncertainties, including Amprius' liquidity position; risks related to the rollout of Amprius' business and the timing of expected business milestones; supply shortages in the materials necessary for the production of Amprius' products; and changes in domestic and foreign business, market, financial, political and legal conditions. For more information on these risks and uncertainties that may impact the operations and projections discussed herein can be found in the documents we filed from time to time with the Securities and Exchange Commission (the "SEC"), all of which are available on the SEC's website at www.sec.gov. There may be additional risks that Amprius does not presently know or that Amprius currently believes are immaterial that could also cause actual results to differ from those contained in the forward-looking statements. In addition, forward-looking statements reflect Amprius' expectations, plans or forecasts of future events and views as of the date of this press release. These forward-looking statements should not be relied upon as representing Amprius' assessments as of any date subsequent to the date of this press release. Accordingly, undue reliance should not be placed upon the forward-looking statements. Except as required by law, Amprius specifically disclaims any obligation to update any forward-looking statements.

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