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Flux Power Awarded Patent for an Intelligent Battery Cycle Life Maximization Algorithm, Pioneering the Future of AI-Driven Energy Optimization

Driven by a Vision to Deliver Smarter, Longer-Lasting Energy Solutions, Flux Power Integrates AI and Software Intelligence to Meet the Growing Demand for Adaptive, Data-Driven Electrification

VISTA, Calif.--(BUSINESS WIRE)-- Flux Power Holdings, Inc. (NASDAQ: FLUX), a leading developer of advanced lithium-ion energy storage solutions and software-driven electrification for commercial and industrial equipment, today announced it has been awarded a patent for its groundbreaking Intelligent Battery Cycle Life Maximization Algorithm, a proprietary AI-based algorithm. As Flux Power accelerates its evolution from a battery manufacturer to a technology-driven energy solutions provider, this innovation signals a strategic shift toward building smart, connected, and autonomous energy ecosystems.

The Intelligent Battery Cycle Life Maximization Algorithm leverages machine learning to monitor and adjust battery behavior in real time. By dynamically optimizing the maximum charge value of each battery pack based on field usage, the system ensures longer cycle life and improved operational efficiency.

"This algorithm uses real-time machine learning to tune battery cycling behavior based on actual usage patterns in the field, significantly extending system life and efficiency," said Paulus Geantil, CTO of Flux Power. "We've moved beyond conventional battery management — this algorithm learns and evolves with the application to deliver optimal performance over time."

This patent adds to Flux Power's growing portfolio of intellectual property, reinforcing its position as a technology leader in the energy storage solutions industry. By embedding intelligence directly into the battery system, Flux Power continues to deliver unmatched value, reliability, and performance to its customers.

"Our customers want more than hardware — they want insight, control, and adaptability," said Krishna Vanka, CEO of Flux Power. "We are building the future of energy through artificial intelligence, where each battery becomes part of a connected network of self-optimizing assets. This patent is a cornerstone of that vision, enabling us to deliver software-driven solutions, which generate additional customer value that goes far beyond traditional energy storage."

About Flux Power Holdings, Inc.

Flux Power (NASDAQ: FLUX) designs, manufactures, and sells advanced lithium-ion energy storage solutions for electrification of a range of industrial and commercial sectors including material handling, airport ground support equipment (GSE), and stationary energy storage. Flux Power's lithium-ion battery packs, including the proprietary battery management system (BMS) and telemetry, provide customers with a better performing, lower cost of ownership, and more environmentally friendly alternative, in many instances, to traditional lead acid and propane-based solutions. Lithium-ion battery packs reduce CO2 emissions and help improve sustainability and ESG metrics for fleets. For more information, please visit www.fluxpower.com.

Forward-Looking Statements

This release contains projections and other "forward-looking statements" relating to Flux Power's business, that are often identified using "believes," "expects" or similar expressions. Forward-looking statements involve several estimates, assumptions, risks, and other uncertainties that may cause actual results to be materially different from those anticipated, believed, estimated, expected, etc. Accordingly, statements are not guarantees of future results. Some of the important factors that could cause Flux Power's actual results to differ materially from those projected in any such forward-looking statements include, but are not limited to: risks and uncertainties, related to Flux Power's business, results and financial condition; plans and expectations with respect to access to capital and outstanding indebtedness; Flux Power's ability to comply with the terms of the existing credit facilities to obtain the necessary capital from such credit facilities; Flux Power's ability to raise capital; Flux Power's ability to continue as a going concern; Flux Power's ability to obtain raw materials and other supplies for its products at competitive prices and on a timely basis; the development and success of new products, projected sales, cancellation of purchase orders, deferral of shipments; Flux Power's ability to improve its gross margins, or achieve breakeven cash flow or profitability; Flux Power's ability to fulfill backlog orders or realize profit from the contracts reflected in backlog sale; Flux Power's ability to fulfill backlog orders due to changes in orders reflected in backlog sales; Flux Power's ability to obtain the necessary funds under the credit facilities; Flux Power's ability to timely obtain UL Listing for its products; Flux Power's ability to fund its operations, distribution partnerships and business opportunities and the uncertainties of customer acceptance and purchase of current and new products, and changes in pricing. Actual results could differ from those projected due to numerous factors and uncertainties. Although Flux Power believes that the expectations, opinions, projections, and comments reflected in these forward-looking statements are reasonable, they can give no assurance that such statements will prove to be correct, and that the Flux Power's actual results of operations, financial condition and performance will not differ materially from the results of operations, financial condition and performance reflected or implied by these forward-looking statements. Undue reliance should not be placed on the forward-looking statements and Investors should refer to the risk factors outlined in our Form 10-K, 10-Q and other reports filed with the SEC and available at www.sec.gov/edgar. These forward-looking statements are made as of the date of this news release, and Flux Power assumes no obligation to update these statements or the reasons why actual results could differ from those projected.

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