Advancements in Lithium Battery Technology Fueling Innovation & Safety

Evenlite, a trusted leader in emergency lighting, announces the publication of a White Paper that serves as a guide to future life safety battery technology.

Illustration of Evenlite's Evolution of Inverter Batteries White Paper

TREVOSE, PA, UNITED STATES, February 5, 2026 /EINPresswire.com/ -- Evenlite, the trusted leader in emergency lighting solutions, is proud to publish an extensive White Paper that serves as a comparative guide to inverter system battery technologies, documents the clear advantages of new lithium battery innovations, and provides the foundation for Evenlite's expanding inverter systems product offering.

The Future of Emergency Power
Lithium Iron Phosphate (LiFePO4) is the superior, future-ready battery choice for lighting inverter systems, offering unmatched safety, longevity, and space efficiency compared to traditional VRLA batteries. The report highlights that LiFePO4 eliminates the risk of thermal runaway when combined with a quality protective battery management system (BMS), provides 10-15 years of service life, and requires up to 50% less space than Valve-Regulated Lead-Acid (VRLA) for equivalent capacity.

Lowest Total Cost of Ownership: LiFePO□'s Longevity Trumps VRLA's Upfront Price
Despite a higher upfront cost, LiFePO□ delivers the lowest total cost of ownership over time due to its extended service life, reduced maintenance, and superior performance. VRLA batteries offer a standard service life of 4-6 years, while LiFePO□ typically provides 10-15 years, significantly reducing the frequency and cost of replacement and maintenance.

Quality BMS is Non-Negotiable
A high-quality battery management system (BMS) is essential for LiFePO□ systems to ensure safe operation, maximize battery life, and enable proper communication with the inverter. The BMS should include individual cell charging and balancing capabilities, which are critical for the safe

and efficient use of LiFePO technology.

Register for the Upcoming AIA Presentation on Inverter Battery Advancements
Evenlite invites industry professionals to attend an upcoming AIA-accredited session. The presentation, titled Battery Technologies in Life Safety Systems: Evaluating Today's Options and the Path Forward, will explore the latest advancements in battery technology and compare the safety and performance of LiFePO with current inverter battery systems.

Register Here
Date: February 18
Time: 12 pm EST

About Evenlite
Since 1993, Evenlite has been a premier manufacturer of emergency lighting solutions, combining cutting-edge technology with thoughtful design to ensure safety and reliability in critical moments. With a legacy of excellence and a commitment to continuous innovation, Evenlite remains the trusted choice for architects, engineers, and safety professionals worldwide.

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