Sion Power®



Licerion Strike™ Battery Solutions

Go Farther. Stay Longer. Carry More.

Sion Power's Licerion Strike™ lithium-metal platform delivers up to 500 Wh/kg—twice the energy density of conventional lithium-ion cells—to extend drone range and endurance while reducing battery weight for greater payload capacity. Optimized for one-way attack missions, Licerion Strike™ cells also recharge up to 10 cycles.

Developed and manufactured in the U.S., Licerion Strike™ is ideal for heavier Group 1 and 2 uncrewed aircraft systems (UAS) and supports electrification of Group 3 platforms.

PROVEN PERFORMANCE

Delivers Double the Flight Time

In head-to-head internal flight tests on a commercial Freefly Astro Max drone, one Licerion Strike™ demonstration pack replaced two SL8-Air lithium-ion packs and nearly doubled flight time while reducing battery weight by nearly 40%.

Flight Test Results

METRIC	2X SL8-AIR	1X LICERION STRIKE™ PACK	DIFFERENCE
ENERGY	314 WH	474 WH	+51%
WEIGHT	2.1 KG	1.5 KG	-38%
SPECIFIC ENERGY	151 WH/KG	314 WH/KG	+140%
PEAK POWER CAPABILITY	120 A	200 A	+67%
ORBIT DURATION	33 MIN	60 MIN	+82%
2 KG PAYLOAD FLIGHT DURATION	19 MIN	37 MIN	+94%

MANUFACTURING

Sion Power manufactures Licerion Strike™ cells in Tucson, Arizona at its 115,000-square-foot facility that features 2,000 evaluation channels, rigorous safety testing, cathode processing, and proprietary anode production. Battery packs are produced with established or customer-preferred pack partners.

2×

Energy density

Nearly

40%

Weight reduction

10×

More time on target

100%

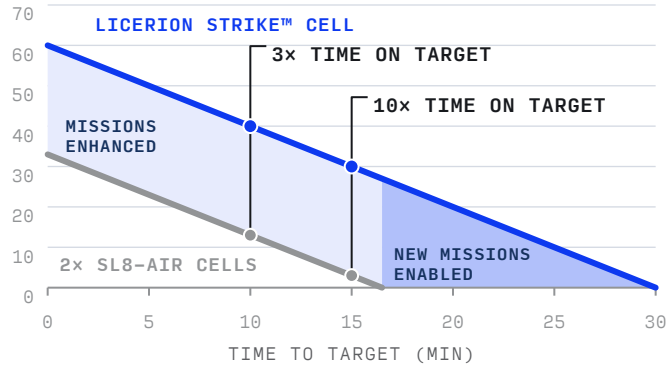
U.S. Manufactured

TACTICAL BENEFITS

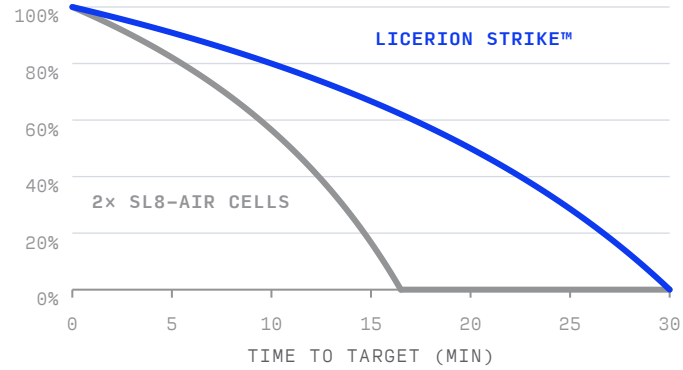
Bringing More Missions Within Reach

With twice the energy of leading lithium-ion cells, Licerion Strike™ can enable 10x more time on target depending on the application—increasing endurance, reducing recharging, and enabling missions previously out of reach.

PRODUCTIVITY GAINS



PRODUCTIVE TIME FRACTION / %



TIME ON TARGET SHOWN AS A FUNCTION OF THE DISTANCE TO THE TARGET

TECHNICAL DATA

Cell Parameters

ELECTRICAL SPECIFICATIONS	
Nominal voltage at C/3	**3.83 V**
Typical capacity	**20.8 Ah**
Nominal energy	**79.6 Wh**

PHYSICAL CHARACTERISTICS	
Maximum cell specific energy	**500 Wh/kg**
Specific energy	**491 Wh/kg**
Dimensions	**11.8 cm × 11.8 cm**
Thickness (0% SOC)	**6.3 mm**
Cell weight	**162 g**

OPERATING CONDITIONS	
Charge voltage	**TOC 4.30 V**
Charge temperature	**>20° C**
Operating temperature range	**-20° C to 72° C**
Maximum continuous discharge current (rate)	**6 C**



LICERION STRIKE™

Sion Power

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ABOUT SION POWER

Sion Power is a U.S.-based developer and manufacturer of advanced lithium-metal battery solutions that deliver two times the energy density of conventional lithium-ion technologies. Backed by decades of research and development, the company's technology is engineered to enable uncrewed aircraft systems to go farther, stay longer, and carry more.

For more information, please visit www.sionpower.com.