

## EaglePicher Technologies Awards GS Yuasa Lithium Power Contract for the Supply of the LSE112, Generation 4 Li-ion cell for Space

March 18, 2024

Roswell, GA - GS Yuasa Lithium Power (GYLP) proudly announces a significant milestone today: EaglePicher Technologies has awarded GYLP an order for the supply of their advanced Generation 4 LSE112 lithium-ion cells (112Ah, 3.75V<sub>nom</sub>). This landmark achievement not only signifies the continued strategic partnership between GYLP and EaglePicher but also represents the first instance in North America where GS Yuasa's Generation 4 space-optimized chemistry is being specified for a flight program. This collaboration underscores GYLP's commitment to delivering unparalleled innovation and reliability in aerospace cell technology.

The LSE112 lithium-ion cell utilizes GS Yuasa's Generation 4 LCO/Graphite based chemistry applied to a power optimized electrode design. The combination is specifically engineered to support high-power duty cycles with minimal loss of performance over the design life of a spacecraft.

Initially released in 1998, GS Yuasa has emerged as a global leader in the space battery industry with its "LSE" lithium-ion cells. With just four incremental chemistry revisions since inception, each generation undergoes stringent testing to enhance performance while upholding the pedigree of the "LSE" cell product line. We prioritize long-term material availability and have demonstrated full configuration control for a decade or more. This steadfast commitment reflects GS Yuasa's unwavering dedication to excellence in every cell we produce.

The physical construction of the Generation 4 cells remains unchanged relative to previous generations. This continuity is critical and allows GS Yuasa to maintain all of the heritage accumulated with the "LSE" family of cells. Like the Generation 3 cells, the Generation 4 cells will be available in either an energy optimized electrode (standard) or power optimized electrode. The only difference between the two electrodes is coating thickness.



### Energy Type Cells

Generation 4	Nameplate Capacity	Width (mm)	Height (mm)*	Thickness (mm)	Status
LSE60	60Ah, 225Wh	130	123	50	Qualified
LSE122	122Ah, 458Wh	130	208	50	Development
LSE160	160Ah,440Wh	130	263	50	Qualified
LSE205	205Ah,769Wh	165	263	50	Qualified

\*Not including terminals

\*\*Estimated

### Power Type Cells

Generation 4	Nameplate Capacity	Width (mm)	Height (mm)*	Thickness (mm)	Status
<i>LSE12x</i>	<i>12Ah, 45Wh</i>	<i>133</i>	<i>68.2</i>	<i>21</i>	<i>Qualified</i>
LSE56**	56Ah, 210Wh	130	123	50	Development
LSE112	112Ah, 420Wh	130	208	50	Qualified
LSE147	147Ah, 551Wh	130	263	50	Qual Pending
LSE193**	193Ah, 724Wh	165	263	50	Development

\*Not including terminals

\*\*Estimated

The Generation 4 cell line-up consists of the heritage case form factors as identified in the tables above. Each of the case sizes have been built and qualified. Additionally, a new smaller form factor case is applied to the [LSE12x Generation 4 cell](#).

With volumes of life and performance data available and a solid connection between industry leading spaceflight heritage without failure and the Li-ion cells offered today, GS Yuasa's value proposition is stronger now than ever.

To learn more about GS Yuasa's "LSE" family of Li-ion cells for space, please contact GS Yuasa Lithium Power, Inc.

### **About EaglePicher Technologies**

EaglePicher Technologies, designs, develops and produces mission-critical power solutions. EaglePicher is an industry leading producer of batteries, battery management systems and energetic devices. For 100 years, the company has served highly demanding requirements for space, aviation and defense battery applications. EaglePicher has eight North American manufacturing and research and development sites and employs over 800 team members. For more information, please visit [www.eaglepicher.com](http://www.eaglepicher.com).

### **About GS Yuasa Corporation**

GS Yuasa Corporation was established in 2004 by the merger of Japan Storage Battery Co., Ltd and YUASA Battery. GS Yuasa develops and manufactures batteries and power supply systems for a wide range of special applications. The company's high-performance, high-quality batteries are installed in sea, land, and aerospace environments, from depths of 6,500 meters below the ocean surface to 36,000 kilometers in space.

<http://www.gs-yuasa.com/jp/> (Japanese)

<https://www.gs-yuasa.com/en/> (English)

### **About GS Yuasa Technology, LTD (GYT)**

GS Yuasa Technology is a subsidiary of GS Yuasa Corporation located in Kyoto, Japan. GYT designs and manufacturers large format lithium ion cells for aerospace and specialty applications.

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### **About GS Yuasa Lithium Power (GYLP)**

GS Yuasa Lithium Power, Inc. is the United States subsidiary of GS Yuasa focused on large format lithium-ion battery system manufacturing for US customers. Primary products are lithium-ion battery systems for aerospace, undersea, and defense applications. <http://gsyuasa-lp.com/>

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