



GS Yuasa Lithium-ion Cells
Surpass 2,000,000 Watt-Hours (110 satellites+) On Orbit

GS Yuasa Corporation (GYC) (Tokyo Stock Exchange: 6674) announced today that it has surpassed 2.0 MWh of lithium-ion energy storage orbited and is projecting to nearly double that figure by the end of 2017. By the end of 2015 GS Yuasa will have over 2.3MWh of lithium-ion energy storage on orbit.

The space qualified lithium-ion cells are manufactured by GS Yuasa's subsidiary, GS Yuasa Technology, Ltd (GYT). GS Yuasa group companies have been in the battery business for more than a century with lithium-ion cell experience stretching back to the late-1980s. GYT has manufactured lithium-ion cells for use on spacecraft since 1998. Based on the expertise gained through numerous space programs and on-going research and development, GYT introduced the Generation III space qualified lithium-ion cells in 2011. Although Generation II cells have been available for 15 years and remain available today, Generation III cells offer significant performance improvements with only minor modifications limited to the chemistry system. Blending a conservative evolutionary approach to development with industry leading heritage and performance, Generation III cells have been embraced by the marketplace, have flown on human rated missions and represent the vast majority of GYT's space cell backlog.

Highlights of space lithium-ion cell technology:

- Very good energy density
- Low and stable internal resistance
- Excellent capacity retention
- Qualified for space applications
- Wide ranging cell capacity from 42 Ah to 200 Ah

Summary of GS Yuasa space lithium-ion performance in space:

- Industry leading 2.3 MWh of lithium-ion energy storage flown
- More than 110 orbital vehicles powered including human rated missions
- Design life of 15+ years
- Demonstrated mission duration exceeding 10 years
- No on-orbit anomalies or failures

With decades of experience and hundreds of cell-years of performance data, GS Yuasa has developed and

validated a life model for space lithium-ion cells which provides highly accurate performance and life predictions across a variety of use cases. GS Yuasa partners with customers to ensure mission success targets are met and optimal cell and battery configurations are considered given each mission's unique value and performance parameters. Customers who choose space lithium-ion cells enjoy the peace of mind achievable only through our industry leading spaceflight heritage and understand GS Yuasa's commitment and teaming approach to its clients.

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/us/> (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.

1-37 Osadano-cho Fukuchiyama-shi

Kyoto pref. 620-0853, Japan

Phone: 81-773-20-2630

About GS Yuasa Lithium Power

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, defense, commercial, and industrial applications.

<http://gsyuasa-lp.com/>

#

For additional information, please contact:

GS Yuasa Lithium Power, Inc.

Ed Murphy

678-892-7500

Sales@gsyuasa-lp.com