

For Immediate Release:

Quallion LLC Announces 3.3Ah Lithium-ion Pouch Cell for Aerospace/Military Applications

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Quallion has developed a high discharge rate 3.3Ah pouch cell for the X-51 Waverider ScramJet Demonstrator Program sponsored by the US Air Force Research Laboratory and built by a consortium of The Boeing Company and Pratt & Whitney. This hypersonic test vehicle is designed to achieve Mach 6+ speeds at an altitude of 100,000 feet.

The program chose to use rechargeable lithium-ion chemistry over the traditional silver-zinc solution to reduce ground maintenance prior to launch, which would allow for testing of the system without the need to replace the battery. Thus, Quallion LLC developed a high energy density and high discharge rate pouch cell to be the basis for three separate battery packs enclosed in one envelope on the vehicle. This cell design had to be robust enough to handle three different performance requirements while maintaining the programs weight goals.

The 3.3Ah cell is designed for greater than 10C capabilities for over 50 cycles and high safety characteristics, with a gravimetric energy density of 120wh/kg and volumetric energy density of 252wh/l. "Being able to design the proper lithium-ion cell to meet the unique envelope, weight and performance requirements of the X-51 program was key to our success in winning this proposal", says CEO & CTO Dr. Hisashi Tsukamoto. Quallion anticipates continued growth to help support the project.

About Quallion LLC – Quallion LLC was founded in 1998 by biotechnology and aerospace entrepreneur Alfred E. Mann and lithium ion battery specialist Dr. Hisashi Tsukamoto. Quallion began as a medical device battery company and soon developed a range of novel enabling technologies, including the world's smallest implantable secondary battery, as well as its proprietary Zero-Volt™ and SaFE-LYTET™ technologies. Quallion develops and manufactures state-of-the-art lithium ion batteries for the military, aerospace, medical and automotive industries. Leveraging its core engineering capabilities, Quallion has expanded into the aerospace, military and automotive industries by focusing on niche applications where advanced battery technology, safety, reliability and custom engineering are most valued. Quallion's services include designing, fabricating and manufacturing cells and battery packs and developing new battery chemistries.

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