Allison Transmission Introduces the eGen Force™ Electric Hybrid Propulsion System for Armored Combat Vehicles

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INDIANAPOLIS--(BUSINESS WIRE)--Oct. 10, 2022-- Allison Transmission, a leading designer and manufacturer of conventional, electric hybrid and fully electric vehicle propulsion solutions, is pleased to introduce the eGen Force ™ electric hybrid propulsion system for tracked combat vehicles. Designed for 50-ton tracked vehicles, the eGen Force meets the requirements for the U.S. Army's Optionally Manned Fighting Vehicle (OMFV) program. The eGen Force is also scalable to 70-ton tracked vehicles, making it capable of meeting future Main Battle Tank requirements as well.

This press release features multimedia. View the full release here: https://www.businesswire.com/news/home/20221010005724/en/

Allison Transmission showcases the eGen Force, its first electric hybrid propulsion solution for tracked combat vehicles, at AUSA 2022. (Photo: Business Wire)

"This product is more than a transmission – it is a power distribution system featuring an electric motor and inverter for on-board vehicle power and parallel hybrid operation," said Dana Pittard, Vice President, Defense Programs, Allison Transmission. "This enables engine-off mobility to reduce enemy detection – both acoustic and thermal – ideally increasing soldier survivability."

Allison has combined its decades of experience with both combat vehicle and electric hybrid propulsion solutions to develop the new eGen Force system. Prior to initiating the design of the eGen Force, Allison leveraged voice of customer by conducting a comprehensive trade study based on more than 70 years of cross-drive development to select the optimal architecture for an electric hybrid combat vehicle with the goal of optimizing efficiency, performance, reliability and manufacturability. To reduce developmental risk, Allison has combined established parts from its X1100-3B1 transmission, used in the Abrams Main Battle Tank, with new components that follow proven design strategies for the gearing. The high efficiency range pack utilizes eight forward and three reverse gears providing an efficient 12:1 ratio coverage and generates 220 kilowatts of electrical power.

"We are very pleased with sub-system performance testing and validation," said Michael York, Executive Director, Defense Engineering, Allison Transmission. "Currently the eGen Force has begun dyno and engine stand testing followed by vehicle testing in early 2023. System and vehicle level integration expertise is a core competency and differentiator for Allison, and we are proud to deliver these next generation capabilities in partnership with our defense customers."

Allison is proud to partner with American Rheinmetall Vehicles (ARV) to integrate the eGen Force into their OMFV offering. The ARV vehicle delivers best-in-class mobility and unmatched power in a highly maneuverable and modern chassis that will transform the way soldiers and squads accomplish their mission.

The eGen Force, along with the eGen Power® electric axle for medium- and heavy-duty vehicles, will be on display at the AUSA Annual Meeting and Exposition from October 10-12, 2022, at the Walter E. Washington Convention Center, Washington D.C., Hall E, Booth #8409.

About Allison Transmission

Allison Transmission (NYSE: ALSN) is a leading designer and manufacturer of propulsion solutions for commercial and defense vehicles and the largest global manufacturer of medium- and heavy-duty fully automatic transmissions that *Improve the Way the World Works*. Allison products are used in a wide variety of applications, including on-highway trucks (distribution, refuse, construction, fire and emergency), buses (school, transit and coach), motorhomes, off-highway vehicles and equipment (energy, mining and construction applications) and defense vehicles (tactical wheeled and tracked). Founded in 1915, the company is headquartered in Indianapolis, Indiana, USA. With a presence in more than 150 countries, Allison has regional headquarters in the Netherlands, China and Brazil, manufacturing facilities in the USA, Hungary and India, as well as global engineering resources, including electrification engineering centers in Indianapolis, Indiana, Auburn Hills, Michigan and London in the United Kingdom. Allison also has more than 1,400 independent distributor and dealer locations worldwide. For more information, visit allisontransmission.com

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