

Freudenberg e-Power Systems launches the new XRANGE™ Battery Pack for Buses and Trucks

- **Heavy-duty XRANGE™ battery pack incorporates field-proven safety features and hardware for ease of vehicle integration and long range**
- **Freudenberg will assemble the pack in a state-of-the-art battery gigafactory in the U.S.**
- **Underlines the company's expertise with a track record of more than 60 million miles driven**

Munich, September 27, 2023. Freudenberg e-Power Systems (FEPS) introduces its new battery pack XRANGE™ for the electrification of trucks and buses at this year's Busworld Europe in Brussels and American Public Transportation Association (APTA) Expo in Orlando, Florida. With this new battery system, FEPS strengthens its positioning as one of the world's leading suppliers of emission-neutral energy solutions for heavy-duty applications. The company will produce the new pack on their gigafactory production line in the U.S.

The launch of the new XRANGE™ battery pack is an important milestone for FEPS on its mission to allow end users to lower their emissions and gain independence from fossil fuels. The battery pack is designed to power a variety of medium to heavy-duty vehicles, ranging from school and long-haul transit buses, medium-duty trucks, mining and construction applications. Long-term performance and robustness are key characteristics making XRANGE™ withstand the rough conditions of the above-mentioned use-cases. The design follows an easy to integrate solution allowing a versatile installation respecting the vehicle architecture. XRANGE comes in a fully integrated enclosure reducing the correlated work needed for the vehicle connection.

“The properties of our XRANGE™ battery pack make them particularly suitable for use in commercial vehicles. In a commercial vehicle, for example, the battery has to withstand a much higher energy throughput, which can be up to 11 times that of a passenger car. We are offering our customers in the truck and bus sector fully engineered energy storage solutions including intelligent battery

management systems, cooling, telematics, and all other relevant elements”, explains Lisa McKenzie, President & General Manager for the Battery Power Systems Unit at FEPS.

The new battery pack will be unveiled to the public during this year’s Busworld Europe and APTA Expo tradeshows in October. FEPS will produce the pack in a state-of the art factory with a scalable capacity up to 6GWh. XRANGE’s design is a purpose fit engineering of the battery packs, telematic system, and software towards customer applications in the heavy-duty market. With well over 60 million miles driven, Freudenberg’s battery systems are among the leading solutions on the market.

By the beginning of 2023, FEPS signed a long-term supply contract with LG Energy Systems for the supply of lithium-ion battery cells. XRANGE™ combines these lithium-ion battery cells with FEPS’ widely proven battery management system, thermal management, and enhanced safety features, making it a state-of-the-art battery solution for heavy-duty applications.

“Freudenberg looks back on over 10 years of experience in the development and establishment of alternative energy systems. Our battery solutions have enabled our customers to become emission-free and have proven their reliability over years of demanding every-day use. With XRANGE, we not only present market-leading performance and superior battery management software, but also demonstrate our simulation experience, electrochemistry expertise, extensive test capacities and stability in a highly innovative environment”, concludes Dr. Max Kley, CEO of Freudenberg e-Power Systems.

The new XRANGE™ product underscores the strategic importance and growth potential that Freudenberg sees in its e-mobility solutions. Its competence and innovative strength in both battery and fuel cell technologies distinguish Freudenberg e-Power Systems as a pioneer of electromobility in the heavy-duty sector.

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Picture: The new XRANGE™ battery pack is designed to power a variety of heavy-duty vehicles, ranging from school and transit buses, medium duty trucks to mining and construction applications.

About Freudenberg e-Power Systems

Freudenberg e-Power Systems is one of the world's leading suppliers of emission-neutral energy systems for heavy-duty applications. With its experience and expertise in battery and fuel cell technology, the company offers tailor-made solutions, in particular combined systems, for sustainable and economical e-mobility. With over 800 employees, Freudenberg e-Power Systems supports its customers from application development through to production, commissioning and service.

The company is part of the global Freudenberg Group, which has four business areas: Seals and Vibration Control Technology, Nonwovens and Filtration, Household Products as well as Specialties and Others. In 2022 the Group generated sales of more than 11 billion euros and employed more than 50,000 associates in around 60 countries. More information is available at www.freudenberg.com.

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