



Flywheel ups explained

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ATLANTA - Oct. 20, 2016 - In critical facilities, uptime is essential. When main power becomes interrupted, these applications depend on backup systems to ensure crucial equipment remains up and running. Not all mission-critical facilities are the same, though, and neither are their backup power needs. Adding to its extensive set of offerings, today, GE (NYSE: GE) unveiled a new series of flywheel uninterruptible power supply (UPS) systems. The new flywheel UPS systems range from 50 to 1,000 kilovolt-amperes and integrate patented flywheel technology from VYCON*, a subsidiary of Calnetix Technologies, with GE's TLE Series and SG Series solutions. Adding flywheel UPS systems to GE's range of backup power offerings provides flexibility to meet the needs of mission-critical customers.

In the event of a utility power outage, a UPS keeps electricity flowing to vital systems and equipment until auxiliary generators cycle on. There are two types of UPS systems primarily used by mission-critical customers today - battery and flywheel UPS systems. A battery UPS system stores energy and converts it to electricity through a chemical reaction. This solution can provide backup power for several minutes or hours, depending on the system, until an auxiliary source of power is switched on. A flywheel UPS system stores kinetic energy in the form of a spinning disk and is designed for short-time discharge applications.

"There are several advantages to using a flywheel UPS system in certain mission-critical applications," explained Ray Prince, global product manager for UPS Solutions, GE Energy Connections" Industrial Solutions. "By utilizing a flywheel UPS, customers can avoid costs associated with storing and replacing batteries. Additionally, a flywheel UPS system takes up less space in the power room and can reduce a facility's overall carbon footprint."

Noteworthy benefits that GE's flywheel UPS system offers customers include:

"Our flywheel energy storage technology is field proven," said Frank DeLattre, president of VYCON. "We have deployed more than 1,200 of these systems worldwide with a total of over 16 million discharge cycles."

The flywheel UPS systems are backed by GE's worldwide service organization with 7x24x365 support. The same service technician will service the GE UPS system and flywheel when needed.

To learn more about GE's backup power solutions for mission-critical applications, including its flywheel UPS system, visit

*VYCON is a registered trademark of Calnetix Technologies

GE (NYSE: GE) is the world's Digital Industrial Company, transforming industry with software-defined machines and solutions that are connected, responsive and predictive. GE is organized around a global



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GE Energy Connections designs and deploys industry-leading technologies that turn the world on. We transport, convert, automate and optimize energy to ensure we provide safe, efficient and reliable electrical power. Uniting all the resources and scale of the world's first digital industrial company, we connect brilliant machines, grids, and systems to power utility, oil & gas, marine, mining and renewables customers, that keep our world running.

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