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Flywheel energy storage ups battery pack





Overview

Can a flywheel replace a battery in a UPS system?

Flywheels appear poised to replace or supplement batteries as a backup power supply in UPS systems. Six companies currently offer DC flywheel energy storage products. Another half dozen or so are developing products they expect to bring to market within the next few years.

Can flywheel energy storage be used in ups?

Coupled with seemingly ever-increasing needs for more reliable, higher quality power, the long-run prospects for flywheel energy storage in UPS applications looks good. Manufacturers of flywheels for application in UPS systems were primarily identified via searching Internet web sites. This search was conducted during fall 2002.

Can a DC system flywheel be used as a battery?

DC system flywheel energy storage technology can be used as a substitute for batteries to provide backup power to an uninterruptible power supply (UPS) system. Although the initial cost will usually be higher, flywheels offer a much longer life, reduced maintenance, a smaller footprint, and better reliability compared to a battery.

What is a direct current flywheel energy storage system?

Advances in power electronics, magnetic bearings, and flywheel materials coupled with innovative integration of components have resulted in direct current (DC) flywheel energy storage systems that can be used as a substitute or supplement to batteries in uninterruptible power supply (UPS) systems.



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