



SolarTech Power Solutions

Flywheel composite energy storage

INTEGRATED DESIGN

EASY TO TRANSPORT AND INSTALL,
FLEXIBLE DEPLOYMENT



Overview

First-generation flywheel energy-storage systems use a large steel flywheel rotating on mechanical bearings. Newer systems use carbon-fiber composite rotors that have a higher tensile strength than steel and can store much more energy for the same mass. Flywheel energy storage (FES) works by spinning a rotor () and maintaining the energy in the system as . When energy is extracted from the system, the flywheel's rotational speed is reduced a.

A typical system consists of a flywheel supported by connected to a . The flywheel and sometimes motor-generator may be enclosed in a to reduce fricti.

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