

Large flywheel energy storage generator





Overview

How does a flywheel generator work?

The operating principle of a flywheel generator is simple and yet strong. When the system is supplied with energy, the flywheel speeds up, storing the energy as kinetic motion. When there is a demand for power, the stored energy is converted back into electrical energy, which provides a smooth supply of power.

What is the largest flywheel energy storage system in the world?

Image: Shenzhen Energy Group. A project in China, claimed as the largest flywheel energy storage system in the world, has been connected to the grid. The first flywheel unit of the Dinglun Flywheel Energy Storage Power Station in Changzhi City, Shanxi Province, was connected by project owner Shenzhen Energy Group recently.

How does a flywheel energy storage system work?

Flywheel energy storage technology works with a large, vacuum structure-encased spinning cylinder. To charge, electricity is used to drive a motor to spin the flywheel, and to discharge the motor acts as a generator to convert the spinning motion's energy back into electricity.

What is a high-speed magnetic levitation flywheel storage system?

This flywheel storage system, developed by Shenzhen Energy Group with technology from BC New Energy, consists of 120 high-speed magnetic levitation flywheel units. These units are designed to store energy in the form of kinetic energy by spinning flywheels at high speeds.



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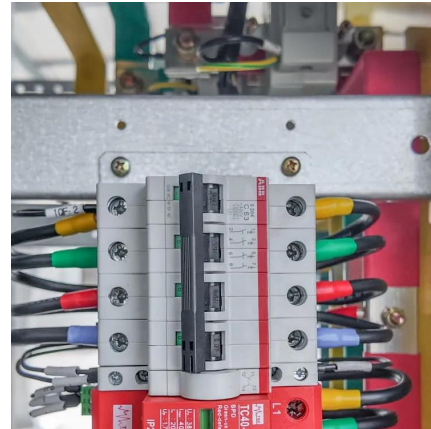
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