

Porsche flywheel energy storage system



Overview

In the 1950s, flywheel-powered buses, known as, were used in () and () and there is ongoing research to make flywheel systems that are smaller, lighter, cheaper and have a greater capacity. It is hoped that flywheel systems can replace conventional chemical batteries for mobile applications, such as for electric vehicles. Proposed flywheel systems would eliminate many of th.

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Flywheels with the main attributes of high energy efficiency, and high power and energy density, compete with other storage technologies in electrical energy storage applications, as well as in ...

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Turbos have changed dramatically since their introduction to production vehicles in 1962, but Porsche's T-Hybrid system in its latest 911 GTS really is a true game changer. Here's why.



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Today, with the help of composites, the idea of coupling rotational and electromagnetic forms of energy has been given a mobile twist with an electric flywheel energy-storage system ...



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Turbos have changed dramatically since their introduction to production vehicles in 1962, but Porsche's T-Hybrid system in its latest 911 GTS ...



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Instead of parallel gasoline engine/electric motor drive systems combined with a battery, the 911 racer paired an internal combustion flat-six cylinder with an electro-mechanical flywheel



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The WHP system which Porsche has adopted uses a flywheel to store energy, instead of an electro-chemical battery. Any moving object has a store of 'kinetic energy'.



Flywheel energy storage

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 ...



[Flywheels Were Once the Future of Hybrid Racing. Could They Make ...](#)

An innovative energy storage plant opened in Stephentown, New York, in 2011, generating 20 megawatts through 200 flywheels suspended in underground vacuum chambers.

[Porsche 911 Hybrid Test Car Uses Flywheel To Store EnergyPorsche ...](#)

Rather than a battery, that system is based on a flywheel, mounted where the passenger seat would normally sit and spinning at speeds up to 40,000 rpm, to capture energy reclaimed from ...



Flywheel energy storage

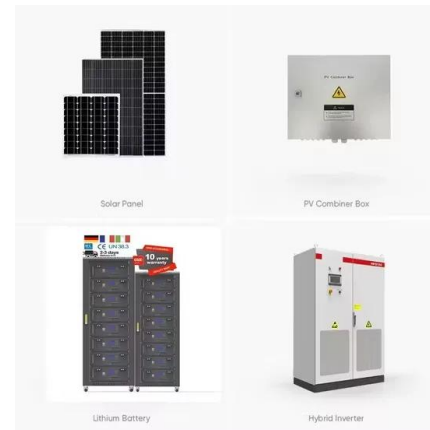
OverviewApplicationsMain componentsPhysical characteristicsComparison to electric batteriesSee alsoFurther readingExternal links

In the 1950s, flywheel-powered buses, known as gyro buses, were used in Yverdon (Switzerland) and Ghent (Belgium) and there is ongoing research to make flywheel systems that are smaller, lighter, cheaper and have a greater capacity. It is hoped that flywheel systems can replace conventional chemical batteries for

mobile applications, such as for electric vehicles. Proposed flywheel systems would eliminate many of th...

[A review of flywheel energy storage systems: state of the art and](#)

In this paper, state-of-the-art and future opportunities for flywheel energy storage systems are reviewed. The FESS technology is an interdisciplinary, complex subject that involves electrical, ...



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