

**PIENAAR ENERGY (PTY) LTD**

# Active power flywheel system



## Overview

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Active Power Flywheel UPS are battery-free uninterruptible power supply (UPS) systems that use the kinetic energy of a flywheel to provide backup power. Active Power flywheel technology products are designed and manufactured in Austin TX. is an established provider of efficient. This paper describes the operation, configuration and performance of integrated flywheel based UPS systems. In the ever-growing need for constant. Flywheels are renowned for their exceptional reliability, boasting a simplified design with fewer components prone to failure compared to traditional batteries. With advanced engineering and proven performance, their solutions protect mission-critical operations in data centers and industrial environments worldwide.

## Active power flywheel system

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### Flywheel UPS Technology

Active Power in Austin, Texas manufactures 250kW, 300kW and 675kW rated static UPS modules with integral flywheel that parallel up to multiple MW for capacity or redundancy. With a 5,500+ global ...

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### Active Power Equipment · Power Techniques Inc

Our products are built on our elegant, field proven flywheel technology that delivers an unmatched combination of power density, reliability, and total cost of ownership.



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### Active Power - Battery Free Uninterruptible Power Supply Systems

Active Power is a pioneer in the design and production of battery-free flywheel uninterruptible power supply (UPS) systems. Their high-efficiency flywheel UPS solutions guarantee ...

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## Low-tech materials, high-tech design: a new spin on flywheels

Meanwhile, at the low power end of the market, Active Source is developing a flywheel-based system for telecom applications, designed to provide 6 kW of back-up power for 8 hours.



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## Why Flywheel?

Active Power flywheels enable our solutions to have a competitive first cost, reduced installation and setup costs, and significantly reduced operating expenses due to higher energy efficiency and ...

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## Operation and Performance of a Flywheel-Based Uninterruptible ...

Once the flywheel reaches 60 rpm, the flywheel inverter controls the acceleration to keep currents below the maximum charging and the maximum input settings. Once the flywheel reaches 4,000 rpm, the ...

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## Active Power Flywheel UPS

Flywheels can store enough power, without a battery, to run equipment until



a generator takes the load. The system costs less, is easy to maintain, and is environmentally friendly. Active Power flywheel ...

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## Active Power Article

It's worth noting Active Power was the first to commercialize a mechanical flywheel energy storage system and soon after patented the integration of UPS electronics with flywheel ...

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## Active Power

Active Power is a global leader in flywheel-based UPS (uninterruptible power supply) systems that deliver reliable, battery-free backup power. With advanced engineering and proven performance, ...

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