

Title: Intelligent high-power pulse inverter

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To address these challenges and bridge the existing research gaps, this study proposes a novel approach that integrates curve-fitting techniques with a Genetic Algorithm (GA) applied to data ...

This intelligent algorithm holds promise for various industrial applications that require high-performance multilevel inverters. By ensuring exceptional power quality through real-time ...

In parallel with the concept of the AC battery, the electronics experts at Porsche Engineering have developed a control unit with a particularly powerful real-time, uniform, and highly ...

Multilevel inverters are essential in high-power industrial motor drive applications, offering significant advantages over conventional two-level inverters. They provide superior speed and torque ...

This paper presents the topology and machine learning-based intelligent control of high-power PV inverter for maximum power extraction and optimal energy utilization.

The advanced PWM technology in Hinen inverters enables intelligent peak-shaving functionality, which can significantly reduce electricity expenses and adapt to price fluctuations.

This project includes a high-voltage silicon carbide-based power block, advanced gate driver, flexible controller board, advanced grid-support control algorithms, communications interface for ...

Pulse inverters - IEEE Technology Navigator. Connecting You to the IEEE Universe of Information.

The voltage reinjection strategy is an effective solution to improve the voltage quality of the voltage source inverters for high-power applications. In this article, the fundamentals of voltage ...

For this power inverter, a voltage pulse mode PWM controller IC SG3525A, high pressure suspension and drive IR2110, high frequency inverter with power switching device IGBT module program.

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