

This PDF is generated from: <https://www.angulate.co.za/Sun-28-Aug-2016-423.html>

Title: Pulse high voltage inverter production

Generated on: 2026-06-10 09:48:48

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Bipolar Pulsed Power Generators (PPGs) have transformative capabilities in solving medical, residential, and industrial challenges by providing innovative and efficient solutions. This paper ...

This article explores the potential of carrier-based pulse width modulation techniques such as sawtooth, triangular, and sinusoidal, and examines how they directly ...

In this article, the fundamentals of voltage reinjection strategy are analyzed to reduce voltage harmonics of the output voltage. Then, a ...

This article explores the potential of carrier-based pulse width modulation techniques such as sawtooth, triangular, and sinusoidal, and ...

In this paper, a boost inverter-based bipolar high voltage pulse generator with high-voltage gain is proposed. The proposed generator can provide high-voltage bipolar output pulses with...

Our high-voltage pulse generators boast exceptional high-speed response capabilities, delivering precise voltage pulses with minimal delay. This feature is crucial in applications requiring rapid ...

In this article, the fundamentals of voltage reinjection strategy are analyzed to reduce voltage harmonics of the output voltage. Then, a novel voltage reinjection circuit is ...

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Abstract--This paper describes a concept and a physical demonstration of a high-efficiency small-size low-cost 100-kV 100-kW high-voltage (HV) power supply (HVPS) designed for long-pulse ...

High-voltage pulse power generation systems represent a pivotal technology in modern engineering, enabling the delivery of rapid, high-energy pulses that are essential across a ...

This article reviews some of the best high voltage pulse generators available, highlighting their key features, input/output specifications, and usage scenarios.

This paper contributes that the SiC Buck-LLC converter is designed to generate the 10 kV high-voltage pulse in DBD applications. The proposed topology rising and falling ...

For laser excitation, a 40 s pulse can be reduced to 150 ns using a four-stage series MPC. The paper¹³ develops and experimentally verifies the efficiency, scalability, and repeatability of a ...

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