

High voltage pulsers to universities and academic institutions provided by Directed Energy for a variety of applications related to research.

In this paper, a repetitive high-power pulse generator based on PFN-LT has been proposed. The generator has the characteristics of compact structure, modularization, and repetitive ...

This paper presents a novel high-voltage pulse power generator utilizing a distributed pulser architecture. It combines gallium nitride (GaN) transistors in a Marx topology with an inductive ...

These applications often require high-voltage pulse generators that can operate at high frequency while maintaining a small footprint and ensuring reliable performance.

This paper presents a novel high-voltage pulse power generator utilizing a distributed pulser architecture. It combines gallium nitride (GaN) ...

verage power of 10W at 100 kHz repetition rate with 15ns pulse width. The design guideline of a multi kW short pulse CO<sub>2</sub> laser system is characterized by high repetition rate, high pulse energy, high ...

Designed for rapid rise times, stability, and customizable outputs, these systems support applications from particle beam modulation and time-of-flight mass spectrometry to driving high-power laser diodes.

According to the published literature, the volume and weight of 10 GW bipolar pulse generators are relatively large, which limits the further application of the system. In this paper, a ...

In this paper, a pulse generator based on the combination of the Blumlein pulse forming line and the boost method is proposed.

Operating below resonance provides minimum IGBT switching loss and minimum frequency sweep for pulse flattening. Typical AT-HVCM IGBT losses are 30 J/macropulse (1.8kW) compared with 50 ...

EHT modulators are designed to generate precision high voltage pulses for tube and grid driving applications. These units can respond to changing load on fast timescales (<math>\le 10 \mu\text{s}</math>). These units are ...

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