
High voltage inverter module pulse

Is a bipolar pulse generator based on a split-source neutral-point clamped (NPC) inverter?

This article presents a novel high-voltage bipolar pulse generator based on a split-source neutral-point clamped (NPC) inverter. The proposed pulse generator provides operation with low input dc voltage while generating output pulses with a high voltage gain.

How does a pulse generator work?

The proposed pulse generator provides operation with low input dc voltage while generating output pulses with a high voltage gain. The boosting action is provided without a dedicated front-end boost converter, positively affecting the system cost. Detailed analysis of the circuit structure and operational concept is presented.

What is a phase shifted inverter?

The inverters' output voltages are phase shifted, which yields a low ripple of 1% and a slew rate of 3 kV/us combined with less than 10 J of stored energy at the maximum voltage. Modular construction allows easy tailoring of HVPS for specific needs. Owing to high efficiency, small size is achieved without water cooling.

Can a bipolar pulse generator be used as a multimodule?

The multimodule version can be used to obtain multilevel pulses with higher voltage amplitudes. To validate the performance of the bipolar pulse generator, simulation and experimental results for a down-scaled prototype are presented. Need Help? Bipolar pulse generators represent a key element in various biomedical and industrial applications.

Specifications: Module type: MC-901 Input voltage: 3.7V-7.4V Input current: 0.5A-1A Input wire length: 9 cm High voltage type: pulse DC type Output voltage: 800KV-1000KV (please pay ...

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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) ...

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