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X-ray high voltage inverter frequency





Overview

Can high voltage generator be used for medical diagnostic X-ray equipment?

A kind of designing scheme of high voltage generator for medical diagnostic X-ray equipment is proposed.

What is X-ray HV generator?

A X-ray HV generator, which has output voltage from 60kV to 160kV and tube current from 1mA to 10mA, is developed successfully by applying the technology of LC series resonant soft-switching, high voltage doubling and rectifying, full bridge inverter and pulse width modulation.

What is a high-voltage DC power supply for X ray power generator?

A high-voltage DC power supply designed for X ray power generator applications is considered, which uses series resonant inverter-linked multistage DC voltage multiplier instead of conventional high voltage diode module rectifier connected to the secondary-side of a high-voltage transformer.

How X ray tube is converted from low DC source?

The DC high voltage for X-ray tube was converted from the low DC source, provided by CT system, through inverting of high voltage inverter, boosting of transformer and multiplying and rectifying of high voltage doubling and rectifying circuit.



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Research of a High Voltage Generator for Medical Diagnostic X-ray ...

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[High bandwidth non-resonant high voltage generator ...](#)

After that, he worked for Siemens AG on numerous industrial research and development projects for X-Ray tube beam control electronics and high-voltage generators ...

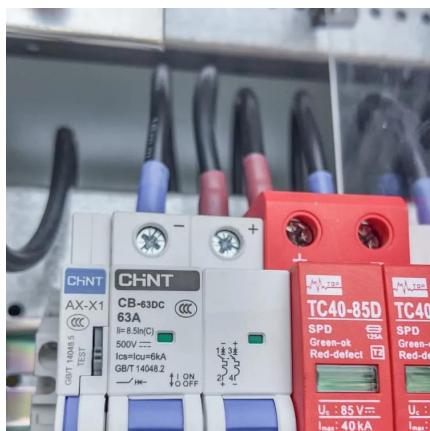
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[The Impact of High-Voltage Generator Inverter Frequency ...](#)

This paper begins with an introduction and analysis of the principles and structure inside the high-voltage generator, and for the first time proposes the viewpoint that using an inverter to ...



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A kind of designing scheme of high voltage generator for medical diagnostic X-ray equipment is proposed. A X-ray HV generator, which has output voltage from 60kV to 160kV and tube current from 1mA

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[Research of a High Voltage Generator for Medical Diagnostic](#)

The topologic structure and simulating result are listed detailed, including high frequency inverter circuit, doubling and rectifying circuit and the controlling system. At last, the ...

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[High voltage generator , Radiology Reference Article](#)

The advancement of high voltage generators from single-phase to three-phase to constant potential generators have overcome this 'voltage ripple' creating a continuous, ...

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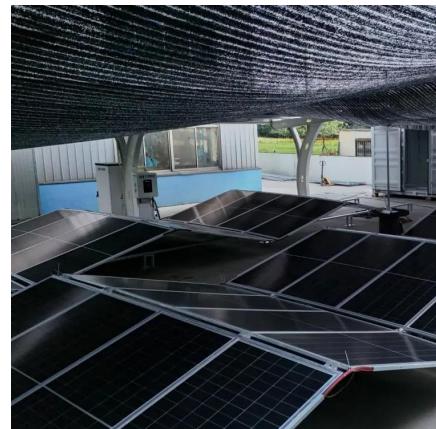
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The method is convenient to the assessment of distortion and frequency of tube voltage waveforms, especially useful for a detailed evaluation of the inverter type X-ray high-voltage generator.

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[PLX101D High Frequency Mobile X-ray Equipment](#)

Standard configurations: Combined high-frequency high-voltage X-ray generator and high-frequency inverter power supply (5KW, 120KV, 100mA, 40 kHz) one set

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