

The latest impulse generator in power station





Overview

The engineering feat led to the launch of the globe's first 500 MW single-capacity impulse hydroelectric generator set at the Zhala Hydropower Station, Harbin said 3 Jan. 2025 in an official statement. What is an impulse generator?

An impulse generator is an electrical apparatus which produces very short high-voltage or high-current surges. Such devices can be classified into two types: impulse voltage generators and impulse current generators. High impulse voltages are used to test the strength of electric power equipment against lightning and switching surges.

What is a HV - impulse generator?

The HV - Impulse generators IPG 2025 and IPG 2436 create standard impulse voltages with waveform 1.2 / 50 μ s acc. to IEC 60060. They are designed for testing impulse dielectric strength of components, insulations, air- and surface flash-over gaps according to the standards.

Why are voltage impulse generators important in EMC testing?

In the context of EMC testing, voltage impulse generators are vital for testing the immunity of electrical devices to high-voltage transients. Devices such as LED drivers, electrical appliances, power supplies, automotive electronics, and telecommunications equipment must withstand these transients to ensure safe and reliable operation.

How does an impulse current generator work?

The impulse current generator comprises many capacitors that are also charged in parallel by a high-voltage, low-current, direct-current source, but it is discharged in parallel through resistances, inductances, and a test object by a spark gap.



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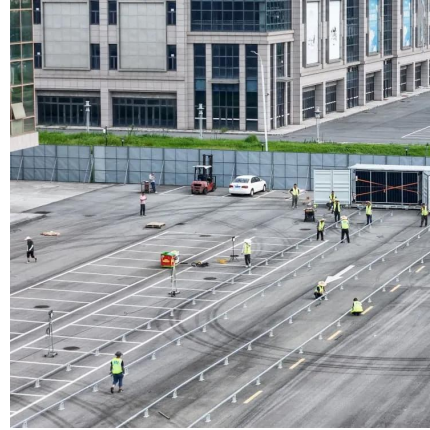


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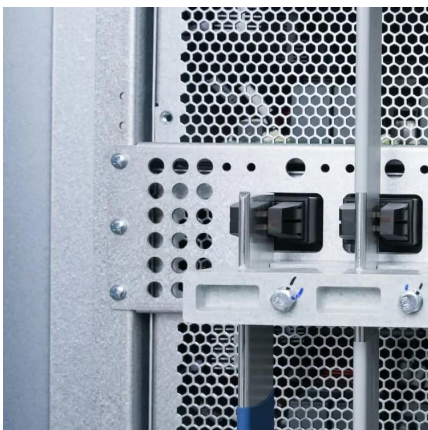
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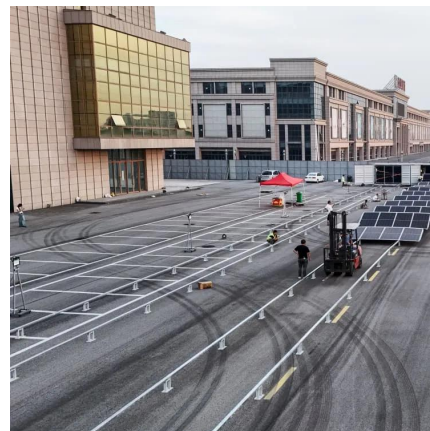


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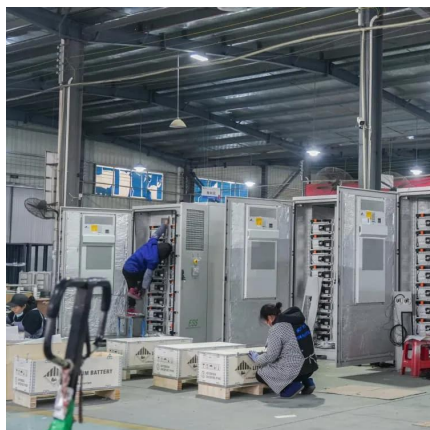


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