10kV bus phase voltage reduction

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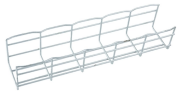
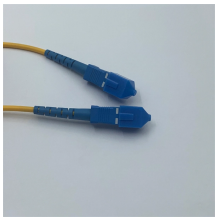
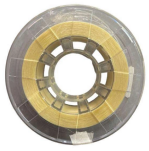


The performance of converter for 10kV, 90A SiC MOSFETs have been simulated and compared with series connected Si-IGBTs for 7kV DC bus voltage rating.



Develop a 10 kV SiC MOSFET-based 1 MW bi-directional power conditioning system (PCS) for manufacturing plants, consisting of back-to-back 13.8 kV AC/DC converters and a 200 kW isolated ...



Accordingly, this new semiconductor technology is especially interesting for Solid-State Transformer concepts and is utilized in this paper for designing a 25kW/50kHz prototype based on 10kV SiC ...

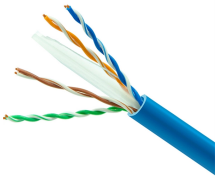
With voltages ranging from 600 volts to 38 kV and ampere ratings up to 8,000 amps, this design utilizes single-phase conductors in a common enclosure with metal barriers between phases.

The invention discloses a 10kV busbar voltage optimization method, system and medium that can improve the voltage qualification rate of a distribution network.

Three-Phase SiC Devices based Solid State alternative to conventional line frequency transformer for interconnecting 13.8 kV distribution grid with 480 V utility grid.

In order to minimize the boost inductance, the AC/DC converters can be operated with phase-shifted carriers, resulting in a switched multi-level AC voltage uML, which closely follows the MV grid voltage ...

The optimization introduced in this report is part of the transmission system that works better than the PI controller in terms of flexibility, speed and reliability for reduction of voltage fluctuations, harmonic ...



In this paper, the concept of voltage-violated bus was proposed firstly, and based on this concept, the distribution network''s reactive power control with low voltage-violated buses was established.

When considering bus spacings, two dimensions are important. The first is clearance, or the distance through air between conductors of opposite polarity or between an energized conductor and ground. ...

Abstract—When a large-area power outage caused by 10kV bus fault occurs in distribution network, the dispatchers transfer the lost load by experience, which will lead to a large area blackout.

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