

# 110kV substation uninterruptible power supply

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What is a 110 kV substation?

They act as the &quot;heart&quot; of the grid. This helps maintain a steady and smooth flow of power. 110 kV substations are medium-to-high voltage stations. They connect to the high-voltage transmission network. Then, they supply power to the downstream 10 kV distribution network. This means they serve end users without intermediaries.

What is an uninterruptible power supply (UPS)?

Uninterruptible power supplies (UPS) are essential to ensure you have continuous power during a power outage. From a small UPS to save and shut down your PC, to large commercial systems that power large data centers or critical systems in hospitals, we have the solutions you and your customers demand.

How many transformers should a substation have?

In order to ensure the reliability of the power supply, the substation should be equipped with two main transformers, but not more than two. When there is only one power supply, or the primary load of the substation has a standby power to ensure the power supply, one main transformer can be installed.

How do 220 kV substations work?

Two 220 kV substations connect to separate 110 kV busbars. They use the same-direction dual supplies. The two 110 kV busbars in each station connect with tie lines to the other station. This setup greatly improves the reliability of the supply. The two 110 kV substations connect and can support each other.

Design and Research of 110kV Intelligent Substation in Electrical System To cite this article: Chao Yang et al 2020 J. Phys.: Conf. Ser. 1578 012211 View the article online for updates and ...

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