

## Kongres Container

# The working principle of the inverter protection box of the communication base station



## Overview

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What is a converter station & protection system?

The converter station and protection systems are designed such a way that the ac protection of the converter and adjacent ac substation are not affected by the normal, transient and dynamic behavior of the DC system.

What is protection for HVDC converter station?

The protection for HVDC converter station comprises of protection solutions for AC busbar(s), harmonic filters, converter transformers, poles/converters as well as DC neutral and DC filter(s). The protections detect and clear faulty equipment on the HVAC as well as HVDC system.

What is the base station working group?

This document is a compilation of documents developed in the Base Station Working Group. It describes the structure of base station systems with a convergent top-down and bottom-up framework. The BSWG has now moved beyond detailed consideration of these specific contributions.

What is a wall mounted power box?

Role: This wall-mounted box is the first checkpoint for incoming mains power. It handles secondary AC distribution and offers protection against lightning and power surges. Placement: Usually positioned at the side of the equipment room.

How does a converter station work?

The converter station takes the electric power from the three-phase AC network and rectifies it to DC, which is then transmitted through overhead lines (or cables). At the receiving end of the converter station, an inverter converts the DC voltage back to AC, which is stepped down to the distribution voltage levels at various consumer ends.

What is a base station power supply?

This acts as the “blood supply” of the base station, ensuring uninterrupted power. It includes: AC distribution box: Distributes mains power and offers surge protection. Switch-mode power supply: Converts and stabilizes power while managing DC output. Battery banks: Serve as backup power to keep systems running during outages. 3.

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