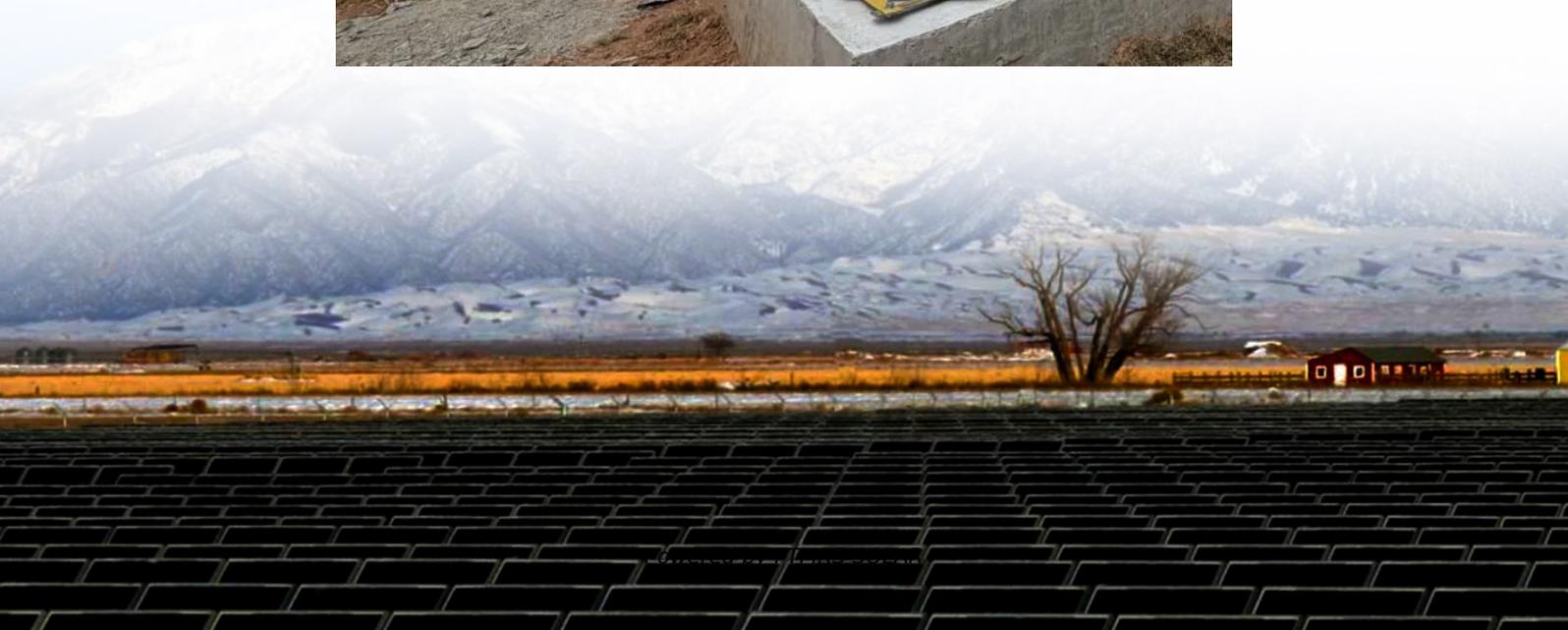


Base station power supply circuit principle





Overview

What is a base station power cabinet?

The base station power cabinet is a key equipment ensuring continuous power supply to base station devices, with LLVD (Load Low Voltage Disconnect) and BLVD (Battery Low Voltage Disconnect) being two important protection mechanisms in the power cabinet.

What is a Blvd threshold for a communication base station?

Assume the rated voltage of a communication base station's battery is 48V, with the BLVD threshold set to 42V. When the mains power fails and the battery starts supplying power, the power system continuously monitors the battery voltage through the voltage detection circuit.

How can a base station reduce energy consumption?

Significant efforts are being made to reduce the overall energy consumption of base stations to lessen their impact on the environment. Electrical energy is the principal source of everyday operating costs in a base station, and the PA can be responsible for more than half of the power dissipation.

Why are base stations important?

In modern communication networks, base stations, as core infrastructure, are crucial for stable operation.



Base station power supply circuit principle

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May 25, 2025 · Building better power supplies for 5G base stations Authored by: Alessandro Pevere, and Francesco Di Domenico, both at Infineon Technologies



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