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Communication 48v base station power supply AC

Overview

What is a communication base station power supply?

Communication base station power supply in the tower room power supply system is an essential and important part of the mobile communication network. The current communication power supply voltage level is divided into DC-48V (+24V), AC 220/380V. Communication industry equipment generally use -48V DC power supply, positive grounding, why?

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Why do communication base stations use -48V power supply?

Communication base stations use -48V power supply for most historical reasons. Historically, the communications industry equipment has been using -48V DC power supply. -48V is also known as positive ground.

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In this article, I will analyze it for you. Why does -48V DC power supply become the power supply voltage of communication base station?

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What is a -48V back-up battery converter?

The -48V back-up battery converter is similar in construction and complexity to the single-output, high-power VoIP converter previously discussed. The power factor corrected (PFC) AC/DC produces the supply voltage for the 3G Base station's RF Power amplifier (typ. +27V) and the bus voltage for point-of-load converters.

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Figure 3. A power supply for a 5G macro base station block diagram. Highlighted ICs The MAX15258 is a high voltage multiphase boost ...

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Figure 3. A power supply for a 5G macro base station block diagram. Highlighted ICs The MAX15258 is a high voltage multiphase boost controller with an I 2 C digital interface designed ...

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