

# Why does a communication base station need a 48V power supply

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Generado el: 2026-04-22 03:02:15

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With -48V (positive grounded), the positive terminal has no potential difference with ground, minimizing corrosion on critical components (e.g., relay coils). A +48V system (negative

The choice of -48V DC for powering telecommunications equipment is a standard practice rooted in a blend of historical precedent and a suite of technical benefits that ensure the

El uso de -48V se debe principalmente a las características electroquímicas del medio de la línea de transmisión de los equipos de comunicación. La polaridad de -48V es negativa,

It's particularly well-suited for powering remote base stations and other infrastructure where access to AC power is limited or unreliable. In these scenarios, -48V power

In modern communication networks?from 4G and 5G to future 6G?mobile base stations form the backbone of wireless connectivity. Behind this infrastructure lies a seemingly minor

El nivel de voltaje actual de la fuente de alimentación de comunicación se divide en DC-48V (+24V), AC 220/380V. Los equipos de la industria de las comunicaciones generalmente

The short story is that -48 VDC, also known as a positive-ground system, was selected because it provides enough power to support a telecom signal but is safer for the human

This article examines the historical origin, technical advantages, safety features, and industrial applications to explain why DC 48V has become the mainstream power supply for telecom equipment.

Telecom networks use 48V DC power for safe, efficient delivery, reliable battery backup, and reduced corrosion, supporting critical communications equipment.



## Why does a communication base station need a 48V power supply

A 48V telecom battery system is a DC backup power solution designed to support telecommunications equipment during grid outages or power instability. It works in conjunction with

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