

How to turn on the 48v power supply of the base station





Overview

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.

What is -48V DC power supply voltage?

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?

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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How do I set up 48V Phantom Power?

To set up 48V phantom power, start by turning off all your audio equipment. Connect your condenser microphone to the console or interface using an XLR cable. Then, locate the designated phantom power switch or button on your equipment and ensure it is turned off. Next, connect the mixing console or audio interface to a power source.

Can a -48 volt DC power a PA?

However, the -48 V DC must first be efficiently converted to a positive intermediate bus voltage before it can be boosted to power the PA or stepped down to a positive workable supply for the digital baseband units (BBU). A power supply with a capacity of 100 W to 350 W was sufficient to cover many applications.



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48V? Phantom Power?

Sep 12, 2025 · It eventually became an IEC standard. In the audio world, "Phantom Power 48V" is almost synonymous with "Condenser Microphone" which requires this voltage (with pin 2 and ...

Why is the power supply voltage of the communication base station -48V

Mar 3, 2021 · The UPS uninterruptible power supply used in the communication base station can shield interference and provide pure power for the equipment on the one hand, and on the ...

Home Studio Tip: What is 48V "phantom power" and when ...

Sep 28, 2024 · Also, 48V is a fairly high voltage, and is often a somewhat awkwardly "tacked on" feature to an overly complex circuit and power supply, making this section of the power supply ...

Connecting -48V DC Power Supply Modules

Apr 20, 2023 · The GigaVUE-HC3 is available with DC power supply modules. This section provides instructions for connecting a -48V DC power source to the DC PSMs. Figure 1: DC ...

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The Power over Ethernet (PoE) Power Supply Unit (PSU) 48V DC is an electronic component designed to deliver power to PoE-enabled devices through Ethernet cabling. This allows for ...

Fanuc Power Supply

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How Do You Use 48V Phantom Power: A Guide for Optimal ...

Oct 14, 2024 · In the world of audio engineering and studio recording, 48V phantom power is a crucial tool for achieving optimal audio performance. Whether you're a seasoned professional ...

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Phantom Power, What Exactly Is It?

Apr 1, 2024 · The Quick Answer Phantom Power in a Nutshell: Phantom power is a way to supply electricity to condenser microphones through an XLR cable. If you're using a condenser mic, ...

Should you switch phantom power off if it isn't needed?



Sep 23, 2019 · When phantom power was first invented, it was designed so that any mic that didn't need it wouldn't be affected by it. So why do we now worry about switching it off? Here's ...

Connecting -48V DC Power Supplies

Feb 9, 2024 · o The bottom connector on the DC power supply is the -48V connector. 4. Replace the safety cover over the power terminals. 5. Connect the neutral and negative power cables ...

Why does the communication base station ...

Dec 3, 2021 · Why does -48V DC power supply become the power supply voltage of communication base station? Communication base station ...

Phantom power: what it is, when you need it ...

What is phantom power? 48v phantom power, sometimes referred to as 48v, is a means of sending direct current (DC) from an audio interface, mixing ...

Why does most of the communication power supply use -48V power supply?

Dec 26, 2024 · Most of the communication power supplies adopt -48V power supply is determined by the historical reasons and safety factor and technical factors and so on. The generation of ...

Building a Better -48 VDC Power Supply for 5G and Next

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 ...

Why does the communication base station use -48V power supply?

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