

## NKOSITHANDILEB SOLAR

# Base station 48 power supply



## Overview

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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.

What is a 48 volt DC power source?

This technique has gained widespread support toward optimization of components and circuits and achieving industry-wide adoption in the data-center-related businesses. 48-V DC power is applied to the AC/DC power source to the DC/DC power input terminal of each computation board.

Can a 48 volt DC power supply save a data center?

(Fig. 5) As shown in this example, when the power per rack exceeds 10 kW, the power distribution loss generated by traditional 12-V DC power is said to reach an intolerable level, but a 48-V DC power supply significantly contributes to power saving for a data center.

Can a 48-V DC converter be used with a 12-V DC power supply?

When a 48-V DC power feeding is adopted, the power configuration of the DC/DC converter needs to be changed from the 12-V DC power supply. Briefly described, two methods are used. The single-stage method reduces the 48-V power source to the load voltage by using a single power supply.

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Figure 3 is a typical simplified block diagram of the RRU board power supply for 5G macro base station or femto base station. Hot-swappable controllers are almost universally ...

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The single-stage method reduces the 48-V power source to the load voltage by using a single power supply. The two-stage method reduces the source voltage to an ...

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<sup>2</sup>C digital interface designed ...

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