

48 power supplies in the base station





Overview

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.

What is a 48V 1st stage power common footprint?

Providing this 48V 1st Stage Power common footprint solution for Data centers enables efficient and responsible power consumption. The common footprint allows for efficiencies and responsible supply chain development and management that help suppliers only invest and develop in solutions that will likely meet customer needs. 4. Objective.

What is a standardized 48V 1st stage power design solution overview?

By providing a standardized 48V 1st Stage Power Design solution overview for OCP, it provides other Hyperscalers and suppliers with the guidelines and inputs to anticipate the electrical, mechanical and thermal requirements. 3.2. Efficiency.

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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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 I²C digital interface designed ...

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