

Base station power supply single power supply circuit





Overview

What is a 3G base station converter?

In a 3G Base Station application, two converters are used to provide the +27V distribution bus voltage during normal conditions and power outages.

What is a low profile power supply?

Low profile power supply design usually includes printed circuit board (planar) power transformers and output inductors and surface mount input and output capacitors. Multiple output power supplies are often implemented with a multi-output flyback converter.

What is an AN253/1088 power supply design?

AN253/1088 POWER SUPPLY DESIGN BASICS by P. ANTONIAZZI In mains-supplied electronic systems the AC input voltage must be converted into a DC voltage with the right value and degree of stabilization. Figures 1 and 2 show the simplest rectifier circuits.

What is a preferred power supply architecture for DSL applications?

A preferred power supply architecture for DSL applications is illustrated in Fig. 2. A push-pull converter is used to convert the 48V input voltage to +/-12V and to provide electrical isolation. Synchronous buck converters powered off of the +12V rail generate various low-voltage outputs.



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For macro base stations, Infineon's Cheng Wentao gave some suggestions on the optimization of primary and secondary power supplies. "In terms of primary power supply, we see an obvious ...

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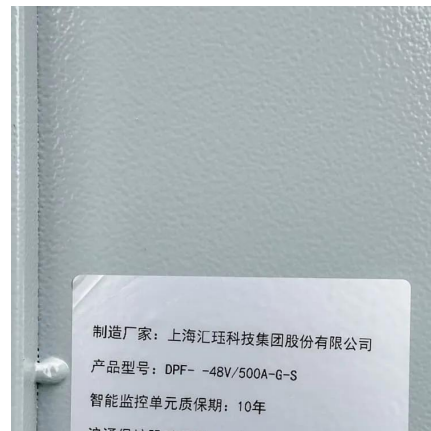
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POWER SUPPLY DESIGN BASICS

This circuit is often used as a reference voltage to apply to the base of a transistor or to the input of an op amp to obtain higher output current. The simplest example of a series regulator is ...





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As a result, a variety of state-of-the-art power supplies are required to power 5G base station components. Modern FPGAs and processors are built using advanced nanometer processes ...



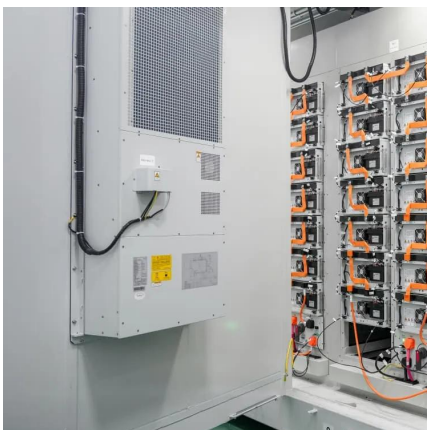
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