

A-Core Container

Can the base station power supply be DC input



Overview

Base stations typically use a 48V input supply that is stepped down by DC/DC converters to 24V or 12V, then further stepped down to the many subrails ranging from 3.3V to less than 1V to power ASICs in the baseband processing stages. What is a multi-output power supply design?

Multiple output designs may also employ a complex regulation scheme which senses multiple outputs to control the feedback loop. Voice-over-Internet-Protocol (VoIP), Digital Subscriber Line (DSL), and Third-generation (3G) base stations all necessitate varying degrees of complexity in power supply design.

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 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.

What does a 42 volt power supply mean?

42V. It means that if the voltage drop is more than 6V, the ICT equipment will be protected. It can be seen that when the length more than 120m in the 4G system and the length more than 70m in the 5G system, the ICT equipment will be off because the low voltage protection of the power supply system.

What voltage does a DSL power system supply?

The DSL power system may supply both higher voltage analog line drivers and amplifiers (typ. +/-12V) and several low voltage supplies required by the digital ASIC (+5V, +3.3V, +1.8V, +1.5V).

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.

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