Communication base station backup power supply circuit board

What is a -48V back-up battery converter?

The -48V back-up battery converter is similar in construction and complexity to the single-output,high-power VoIP converterpreviously discussed. The power factor corrected (PFC) AC/DC produces the supply voltage for the 3G Base station's RF Power amplifier (typ. +27V) and the bus voltage for point-of-load converters.

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 types of power systems are used in communications infrastructure equipment?

Communications infrastructure equipment employs a variety of power system components. Power factor corrected (PFC) AC/DCpower supplies with load sharing and redundancy (N+1) at the front-end feed dense,high efficiency DC/DC modules and point-of-load converters on the back-end.

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 converteris 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.

As a key communication facility, communication base station needs reliable backup power supply in order to deal with emergencies or power failures and ensure the continuous ...

When natural disasters cut off power grids, when extreme weather threatens power supply safety, our communication backup power system with intelligent charge/discharge management and military ...

By integrating the power supply into the system circuit board, customers have achieved a significant reduction in system size--over 60% compared to previous designs. This integration not ...

Communications infrastructure equipment employs a variety of power system components. Power factor corrected (PFC) AC/DC power supplies with load sharing and redundancy (N+1) at the ...

The backup power supply of a communication base station refers to a backup power system used to maintain the normal operation of a communication base station in the event of a power failure or ...

Huijue differentiated the communication base station backup power equipment in functionality: intelligent power distribution, power metering, RS-485/4G monitoring, remote control, and condition logic ...

Product Features Provide overvoltage, undervoltage, overcurrent, high temperature, low temperature and short circuit protection and recovery functions for the battery pack; Realize accurate ...

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Why is backup power important in a 5G base station? With the rapid expansion of 5G networks and the continuous upgrade of global communication infrastructure, the reliability and ...

Telecom Base Station Backup Power Solution: Design Guide for 48V 100Ah LiFePO4 Battery Pack With the rapid expansion of 5G networks and the continuous upgrade of global ...

When a typhoon knocks out grid power across Southeast Asia, how do operators ensure communication base stations keep 5G networks online? The answer lies in strategic backup power selection - a ...

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