

Why do cellular base stations have backup batteries?

[...]Cellular base stations (BSs) are equipped with backup batteries to obtain the uninterruptible power supply (UPS) and maintain the power supply reliability. While maintaining the reliability, the backup batteries of 5G BSs have some spare capacity over time due to the traffic-sensitive characteristic of 5G BS electricity load.

How is the schedulable capacity of a standby battery determined?

In this article, the schedulable capacity of the battery at each time is determined according to the dynamic communication flow, and the scheduling strategy of the standby power considering the dynamic change of communication flow is proposed. In addition, the model of a base station standby battery responding grid scheduling is established.

Why do telecommunications equipment manufacturers need a more efficient power supply?

More recently, diverse power supply requirements coupled with a volatile telecommunications market have forced equipment manufacturers to not only cut costs but to also provide more efficient and reliable power solutions in order to remain competitive.

How does input voltage sensing work?

Input voltage sensing logic turns on the top FET Q2, which is connected to the 400V bus, when the AC main supply voltage is within the correct range. During AC line power outages, top FET Q3 is activated to power the converter from the back-up battery.

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/DC power 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 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).

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This paper presents a cost-effective, easy-to-implement, and efficient 5V rechargeable power supply solution for microcontroller unit-based (MCU-based) applications. ...

This type of power supply is commonly used in power communication systems. (2) Battery. A device that can convert chemical energy and electrical energy into each other is called a battery. It has the advantages ...

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Mobile phone battery is an important part of the communication power supply, and in recent years the mobile phone market boom wave after wave, the communication ...

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Adding a digital control and communication feature to the power converter allows better integration of these devices into modern electronic systems by streamlining system design, and increasing flexibility and reliability. However, the best way ...

In the communication power supply field, base station interruptions may occur due to sudden natural disasters or unstable power supplies. This work studies the optimization ...

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