



Base station backup power supply configuration standards





Overview

Can a backup power system be used during a blackout?

equipment operational during a blackout, but damaging surges occur much more frequently than power outages. A properly designed backup power system should always incorporate a cascaded approach to applying surge protection (i.e. a two layered approach) working in conjunction with a UPS.

Do medical devices need a backup power supply?

In healthcare settings, where the reliability of critical equipment can directly impact patient safety, it is essential to use the right UPS systems. While many medical devices are connected to the facility's main power grid, complete with its own backup system, it is strongly recommended that each device also has a dedicated backup power supply.

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

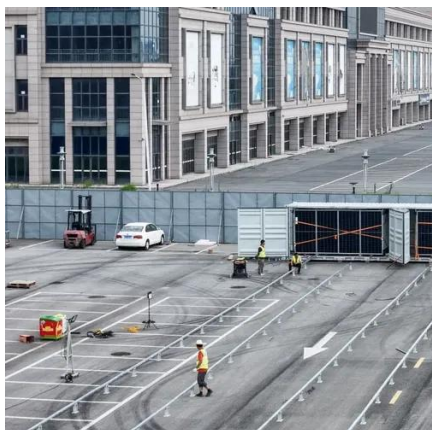
The -48V back-up battery converter is similar in construction and complexity to the single-output, high-power VoIP converter previously discussed. The power factor corrected (PFC) AC/DC produces the supply voltage for the 3G Base station's RF Power amplifier (typ. +27V) and the bus voltage for point-of-load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

What is a 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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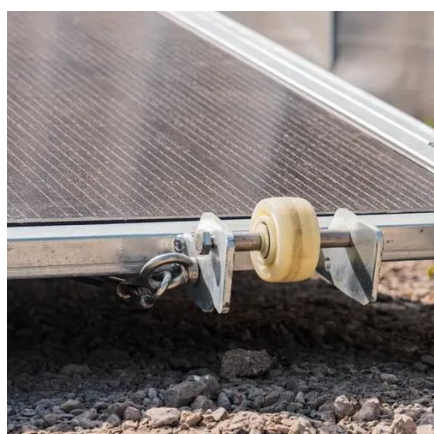


[Base station power supply configuration design plan](#)

This 5G base station power supply system integrates battery backup, DC power distribution, and advanced control modules to ensure reliable energy support for critical telecom infrastructure.

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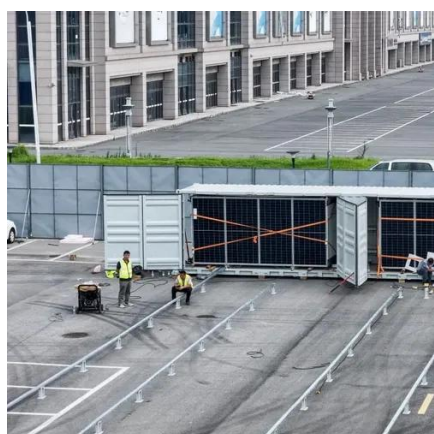
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