Communication base station flow battery interval shutdown

Overview

VRLA batteries use absorbed glass mat (AGM) technology for spill-proof operation, while lithium- ion variants offer higher energy density. They maintain voltage stability through rectifiers and DC plants, enabling base stations to function for 4-48 hours during blackouts. This work studies the optimization of battery resource configurations to cope with the duration uncertainty of base station interruption. Reliability during rare events is more important than frequent cycling. 2 Continuous Float Charging Requirements These batteries are designed to tolerate long periods of. · 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 · In the communication power supply field, base station interruptions may occur due to sudden natural. ons remain idle for most of the time.

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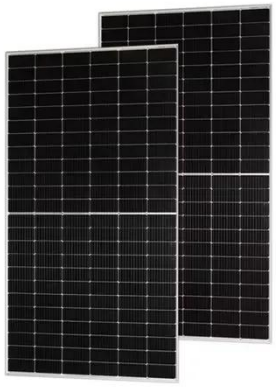

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(PDF) Dispatching strategy of base station backup power supply

Overall, this study provides a clear approach to assess the environmental impact of the 5G base station and will promote the green development of mobile communication facilities.

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he standby battery to the power grid. Different from traditional batteries, in 5G base stations, its batteries are mainly used to ensure the device's own power consumption after the main

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Joint optimization method of

equipment shutdown and backup battery

By selectively shutting down AAU modules when the communication load is low, base stations can achieve significant energy savings without compromising user service quality.

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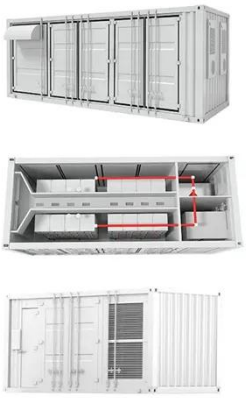

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