Kongres Container

Communication Base Station Backup Battery Management

Overview

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In this article, we explore the application of BMS in telecom base backup batteries, examining its critical role, key features, challenges, and future trends in the industry. Telecom base stations are strategically distributed across urban, suburban, and remote locations to provide uninterrupted.

Among various battery technologies, Lithium Iron Phosphate (LiFePO4) batteries stand out as the ideal choice for telecom base station backup power due to their high safety, long lifespan, and excellent thermal stability. This guide outlines the design considerations for a 48V 100Ah LiFePO4 battery.

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Two common options for telecom applications are lead-acid and lithium-ion batteries. Each has distinct advantages and limitations. Lead-Acid Batteries: These are the heaviest option and require specific shelving due to fluid and gas vents. They can suffer permanent damage if discharged below 50%.

The MOKOEnergy BMS keeps your telecom battery backup power supply optimized for reliability. Our compact BMS board actively balances cells, prevents overcharging, and protects against common hazards. With robust design and diagnostics, it maintains efficient and safe operation of your lithium-ion.

Communication Base Station Energy Storage BMS Solution is suitable for backup power lithium battery system management of 15/16 strings and below. BMS provides overvoltage, undervoltage, overcurrent, high temperature, low temperature, short circuit, charger reverse connection and other protection.

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