People disagree with the construction of lead-acid batteries for communication base stations

Overview

As 5G accelerates nationwide, stable backup power has become mission-critical for telecom base stations. But traditional lead-acid batteries are reaching their limits, short lifespan, heavy size, high maintenance, and growing environmental concerns. Backup power for telecom base stations, including UPS systems and battery banks composed of multiple parallel rechargeable batteries has traditionally relied on lead-acid batteries. My understanding is that they used to use negative 48V DC power, i. 24 2-volt lead acid cells in series, with positive grounded. Today, it's possible to find these telecom batteries, like those made by Victron. LiFePO4batteries and lead-acid batteries are used in base stations, mainly consideringthat different discharge rates have less influence on the discharge capacity ofsuch batteries, and that they can withstand a wide range of ambienttemperatures. The following will analyze the battery capacity. Two primary battery technologies dominate the telecom backup power industry: lead-acid and lithium-ion. Each has its advantages and trade-offs.

Article Content

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