SolarTech Power Solutions

5g communication base station lead-acid battery substrate

Overview

How important is battery backup for a 5G node?

Customers will need to know the specific backup time available to execute a safe application shutdown without errors. Essentially – the Battery Backup (BBU) solution for 5G becomes even more critical. This means that the BBU for a 5G node requires: Enough power to shut down the node safely without data loss or corruption.

Are lead-acid battery systems a good choice for a BBU?

Optional ability – through system modularity - to offer extended run time in areas with no additional layers of backup such as generator systems. For years, lead-acid battery systems worked well as a BBU of choice – especially in the more consolidated regional offices and cell tower base stations indicative of 3G and 4G systems.

What is a BBU for a 5G node?

This means that the BBU for a 5G node requires: Enough power to shut down the node safely without data loss or corruption Communication Capability – to advise the network of battery health and charge level (SOH, SOC) and to advise the system to transfer the work to another node based on this information.

What are the advantages of a 5G battery?

In a 5G system, the TCO can range from 30-50% lower than that of lead-acid batteries, due to their enhanced performance, durability, and advanced capabilities. Inherent remote monitoring eliminates the need to visit and service the BBU systems at these many nodes and clusters. Here are other advantages of Li-ion:.

Do li-ion BBU solutions meet the performance requirements of 5G installations?

To summarize – In order to meet the performance requirements of the latest 5G installations – Li-Ion BBU solutions must be part of the power system to ensure the reliability and integrity customers are expecting.

What makes a 5G network reliable?

Building a 5G network with reliable coverage that customers expect means adding hundreds or even thousands of RAN nodes or clusters to the current core network– each requiring their own power source and IT processing system.

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