

SolarTech Power Solutions

Lightning strikes 5G base station



Overview

What happens if lightning strikes a cell tower?

When lightning strikes a cell tower's top, it damages equipment like receivers, antennas, and remote-radio heads placed up there. Moreover, this equipment connects to gear at the tower's bottom responsible for sending signals across the network. The resultant surge from a lightning strike also harms equipment in the tower's base station.

What is lightning & surge protection?

A thorough lightning and surge protection approach provides optimal safety for people and high availability systems. LSP designs specialized AC and DC Surge Protection Devices (SPDs) for mobile radio sites.

Are cell phone towers prone to lightning strikes?

Lightning strikes are an unwanted but unavoidable issue for cell carriers. These towers can be quite tall, ranging from 50 to 200 feet, with some reaching up to 2000 feet. Because they often stand alone, they're highly susceptible to lightning strikes.

Why do cell sites need to be protected from lightning strikes?

Cell sites are essential for communication infrastructure and need to be shielded from power surges caused by lightning hits. A major concern for telecom operators is towers going offline due to lightning strikes, which often target the tallest structures in a region.

Are mobile phone masts prone to recurrent lightning strikes?

However, due to the exposed nature of mobile phone masts, they are prone to recurrent direct lightning strikes that disrupt entire systems. Additionally, damage often arises from power surges, like those caused by lightning hitting close to a mobile radio site.

What is a lightning & surge arrester?

The cables from the energy supply and the backup power connect at the main distribution. Because strong lightning currents and overvoltages can occur in this part of the system, a compact device combination (type 1+2 special combined lightning current and surge arrester) is used for lightning and surge protection.

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