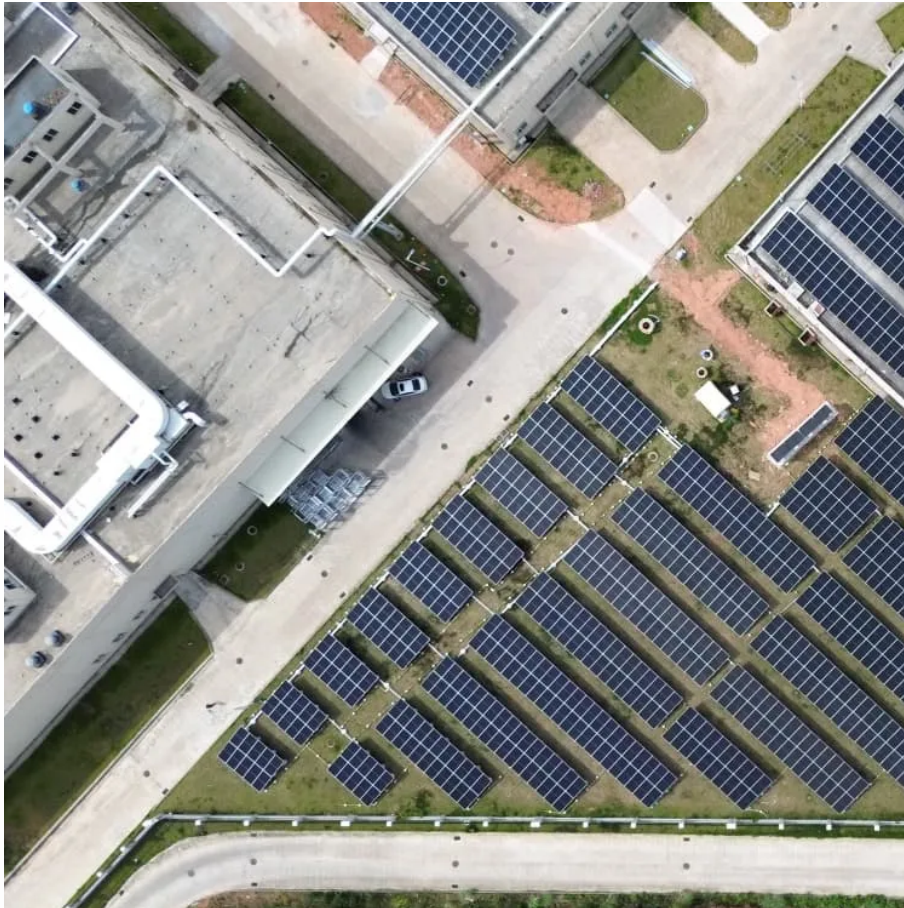




Solar outdoor site energy struck by lightning





Overview

Lightning strikes can damage solar panels directly or indirectly. Direct strikes may melt or shatter system components. Indirect strikes can cause high-voltage surges disrupting system performance. Surge protection devices like Citel DS72-RS-120 are recommended.

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Lightning is a common cause of failures in photovoltaic (PV) and wind-electric systems. A damaging surge can occur from lightning that strikes a long distance from the system or between clouds. But most lightning damage is preventable. In this article, you will learn how to protect your solar power.

Solar PV systems are designed to collect energy from sunlight, but they also have large metallic components including panels, frames, and mounts, along with extensive electrical wiring. Both metal and wiring serve as excellent paths for electrical currents, making solar installations natural.

Lightning protection systems play a crucial role in securing solar investments during electrical storms. These systems help prevent costly damage to solar panels and related components from lightning strikes. By understanding these protection strategies, homeowners can safeguard their valuable.

While comprehensive research shows solar installations are remarkably resilient to extreme weather, lightning represents one risk factor worth addressing. When lightning damage does occur, it accounts for 32% of weather-related solar panel incidents, making proper protection a valuable investment.

Lightning strikes are a common weather phenomenon — with over 40 million lightning strikes in the U.S. each year — and solar projects should be prepared to face these disasters. Lightning is very destructive to PVs and is one of the top causes of damage to solar projects 1 of all natural.

Direct lightning strikes pose the most immediate threat to PV systems. When



lightning directly strikes PV modules or nearby structures, it can cause catastrophic damage. The high-energy surge from a lightning strike can damage critical electronic components of PV modules, such as inverters, battery.



Solar outdoor site energy struck by lightning



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Learn step-by-step how to safeguard your solar installation from lightning damage with grounding, surge protectors, and lightning rods.

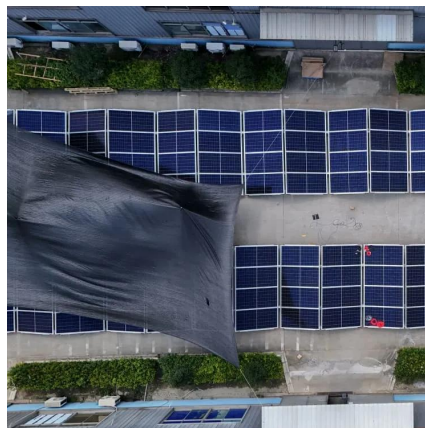
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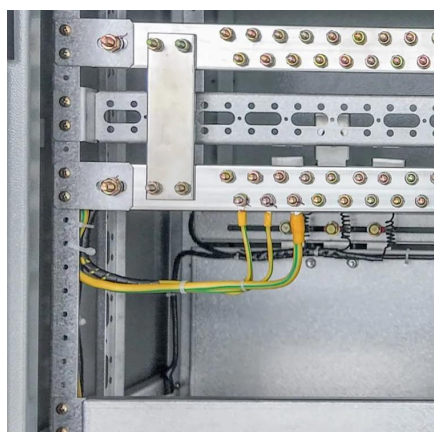
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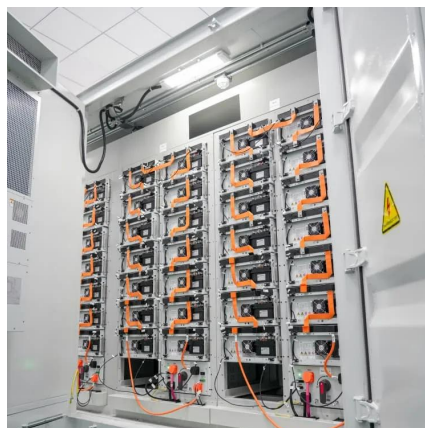
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