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Title: Photovoltaic panel lightning protection method diagram

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Recommended to install an external Lightning Protection System (LPS) of Level III. A lightning strike onto a tracker mounted Air termination rod which connects to the earthing system via the Tracker ...

Before considering the effective lightning protection of a PV system, we need to understand the common types of lightning strikes. Diagram 1_Standard lightning protection plan ...

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Protection against surges of photovoltaic plants is custom-designed for every installation in order to protect photovoltaic cells and all the integrated elements as much as possible.

Lightning discharges cause field-based and conducted electrical interference. This effect increases in relation with increasing cable lengths or conductor loops. Surges do not only damage the PV ...

Figure 5 shows an appropriate integrated lightning protection system for a sample solar power system located on a building at roof level, while figure 6 depicts a free field solar panel farm ...

PS and so the risk of a direct lightning strike is not considered. This is the configuration that applies to 95% of residential solar PV installations in Australia. Figure 3 shows a building with roof

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Galvanic coupling occurs when lightning hit a lightning rod or the roof of a building. Conductive coupling occurs when lightning hit an aerial electric line or a low voltage line.

This paper identifies the fundamental aspects of lightning interaction on PV and to summarize the lightning protection system requirement according to the standards and guidelines.

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