

# Solar system high voltage protection





## Overview

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DC surge protector (SPD) works like a guard for your solar system, must be able to handle the high voltage and current levels generated by lightning strikes when a voltage surge exceeds a specified threshold. What is photovoltaic surge protection?

Surge protection devices provide an effective line of defense by diverting or absorbing excess voltage and preventing damage. Investing in photovoltaic surge protection ensures that a solar power system operates smoothly and efficiently, providing continuous energy production while minimizing risks to both equipment and personnel.

Why should you install a solar surge protector on your PV system?

So, when you install a solar surge protector on the PV system, it helps the system run smoothly without sudden surges. As a consequence, the system delivers a better and more consistent performance. Sudden power surges lead the PV system components to degrade with time. It gradually reduces the life expectancy of the solar power system.

How to choose a DC surge protection device for solar?

There are three types of DC SPD available for solar. So, you need to choose the DC surge protection device based on your needs. The type 1 surge is designed to handle direct lightning strikes. This device is installed at the primary inlet of the power supply. Additionally, it protects a wide area.

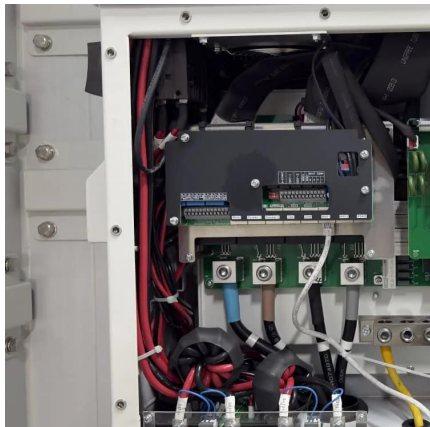
Do solar panels need surge protection?

In a solar system, where sensitive equipment like solar panels, batteries, or electronic devices is directly connected, the need for surge protection becomes even more critical. Voltage spikes or surges can degrade or destroy electronic components, disrupt power supplies, and lead to unexpected downtime or loss of productivity.



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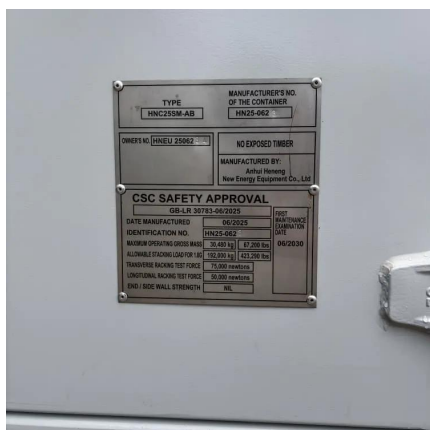
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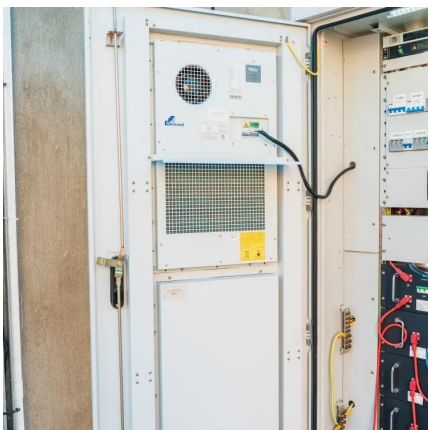


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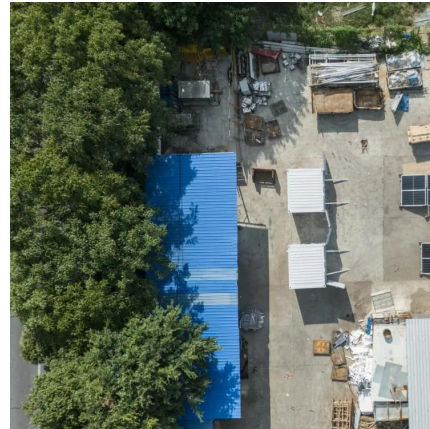
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