

## SolarTech Power Solutions

# 60v inverter overvoltage protection



## Overview

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Does a PV inverter have overvoltage protection?

The inverter is manufactured with internal overvoltage protection on the AC and DC (PV) sides. If the PV system is installed on a building with an existing lightning protection system, the PV system must also be properly included in the lightning protection system.

What is overvoltage protection?

Overvoltage protection serves to prevent damage to electrical and electronic devices as a result of excessive voltages. Overvoltage protection devices (surge protection devices, or SPD for short) generate equipotential bonding between the connected conductors when excessive voltage is applied.

Why is the protection level at the inverter increased?

In addition, the protection level at the inverter is increased if the overvoltage occurs at one of the other strings. When excessive voltage is applied, voltage falls via the cable inductance. If the arrangement is not ideal, the protection level at the inverter is increased (see Fig. 6).

Can overvoltage protection devices be retrofitted?

The overvoltage protection devices can be retrofitted by plugging them into the base which is standard on all devices. In the Sunny Tripower, the medium protection can be retrofitted quickly and cost-effectively thanks to the SPD type II which can be integrated.

How do you protect a power supply from overvoltage conditions?

There are many ways to protect loads and components from power supply overvoltage conditions and this document discusses one of the most effective methods. Zener diode is one of the most commonly used voltage clamping components to protect devices from overvoltage conditions.

Can lightning protection be combined with SMA inverters?

Also, special features of combining overvoltage protection devices with SMA inverters are described. The document covers lightning protection in as far as it influences overvoltage protection. Lightning protection systems are intended to prevent damage to buildings from lightning strikes.

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