



**SolarTech Power Solutions**

**Which category does the outdoor power supply belong to**



## Overview

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Does a Class 2 power supply need a grounding?

Notably, there needs to be grounding, and protection depends on installation conditions. CLASS II power supplies typically use two-prong plugs. CLASS III: Products falling under CLASS III rely on a safety extra-low voltage (SELV) to protect against electric shock, ensuring no hazardous voltage is present.

Does a Class II power supply need a protective earth?

While a Class II power supply does not require a protective earth, some lower power Class II products find applications in Class I systems, and Class II applications often use a functional earth in the system. The Class II supply is designed to meet EMC requirements for emissions and immunity.

What is a Class II external power supply?

The use of a Class II external power supply is straightforward, with the main difference compared to a Class I product being that it requires only 2-core main leads for secure operation. Protection is maintained by double or reinforced insulation, rather than relying on both protective earthing and basic insulation.

What is a Class 1 power supply?

Here's a brief breakdown: CLASS I: This classification indicates that a product's protection against electric shock relies on essential insulation and a grounding method. CLASS I power supplies typically use three-prong plugs.

Are AC-DC power supplies a protection class?

AC-DC power supplies for electrical equipment are usually a protection class of Class I or Class II. The term protection class refers to the level of primary to secondary insulation determining whether a product needs to be protectively earthed to avoid an electric shock.

How does a power supply protect the ground?

Power supplies fall into one of three protection classes, based on the need (or not) for a protective earth connection known as 'earthing'. This works by providing a path for a faulty electrical current to flow to the ground, shielding users from shocks when equipment insulation fails.

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