



High temperature when outdoor power supply is used

Why should you choose a wide temperature power supply?

To address such extreme environments, users are advised to opt for wide temperature (Wide Temperature) power supplies. These devices are designed to provide stable power even under high or low-temperature conditions, ensuring the reliable operation of connected equipment.

What is the operating temperature of a power supply?

The operating temperature specified for a power supply refers to the temperature of the environment around it, rather than the external ambient temperature of the equipment. Typically, the operating temperature range for power supplies is between 0°C and 40°C, with some products able to reach standards of 0°C to 50°C.

What does it mean if a power supply exceeds standard operating temperatures?

Exceeding standard operating temperatures means running your power supply when the ambient temperature falls outside the operating temperatures for which it is rated. Sometimes this happens -- you can't predict every possible usage scenario, and you can't always guarantee a stable environment.

Why is thermal design important in a power supply?

Proper thermal design of the power supply will mitigate this risk, and supplies with wider operating temperature ranges are likely to exhibit less temperature rise, resulting in lower touch temperatures for a given ambient operating temperature.

What happens if a power supply reaches a high temperature?

When the ambient temperature exceeds this range--such as during scorching summers or freezing winters--the power supply may fail to operate normally. To address such extreme environments, users are advised to opt for wide temperature (Wide Temperature) power supplies.

Why is running a power supply at a specified temperature important?

Running your power supply within its specified operating temperatures is essential for optimizing its performance, preventing overheating and breakdowns, and extending its lifespan.

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