

SolarTech Power Solutions

Outdoor power supply temperature resistance requirements



Standard 20ft containers



Standard 40ft containers



Overview

What is the operating temperature range for power supplies?

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. In other words, the temperature inside the equipment must be maintained within this range to ensure stable operation.

What is a wide temperature power supply?

Wide temperature power supplies usually operate within a range of -40 to -20°C up to 70-80°C, exceeding the range of conventional power supplies and meeting the needs of most applications. Although wide temperature power supplies utilize internal components with superior heat resistance, these materials still have thermal and efficiency limits.

How does temperature affect power supplies?

The Effects of Temperature on Power Supplies Rising ambient temperatures can significantly impact the performance of power supplies, reducing the stability of internal electronic components, shortening their lifespan, and causing operational instability in the system.

Does a wide temperature power supply overheat?

Although wide temperature power supplies utilize internal components with superior heat resistance, these materials still have thermal and efficiency limits. When the ambient temperature exceeds 40-50°C (depending on the product design), internal components may overheat, leading to performance degradation and reduced output power.

What is the rated power of an external power supply?

The rated power of an external power supply shall be at least the rated power consumption of the on-premises telecommunications equipment. When a short occurs in the on-premises telecommunications equipment, the

protection function with which the on-premises telecommunications equipment is equipped shall be able to operate.

What is a common power supply voltage tolerance?

Common power supplies support a wide input voltage range to cover worldwide AC mains networks. The standard defines the supply voltage tolerance to be +6 % and -10 % unless wider tolerance is declared by the supplier.

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