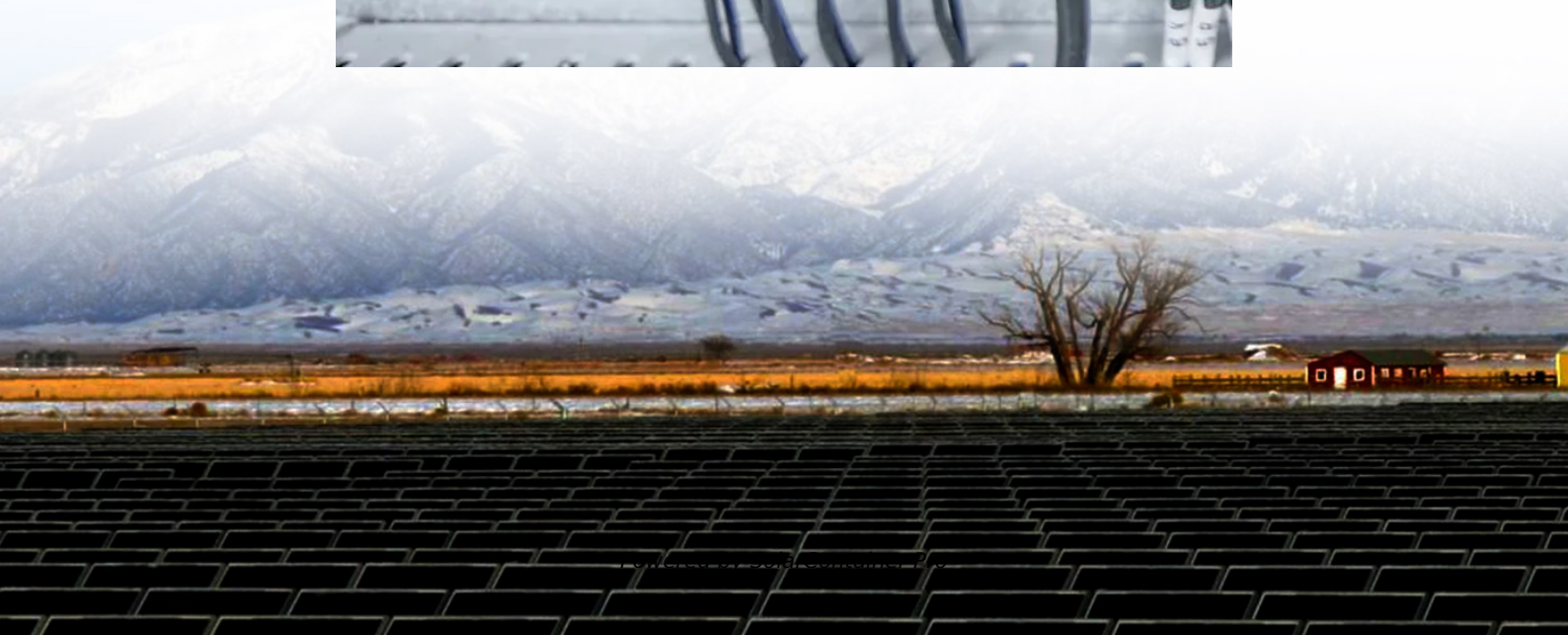
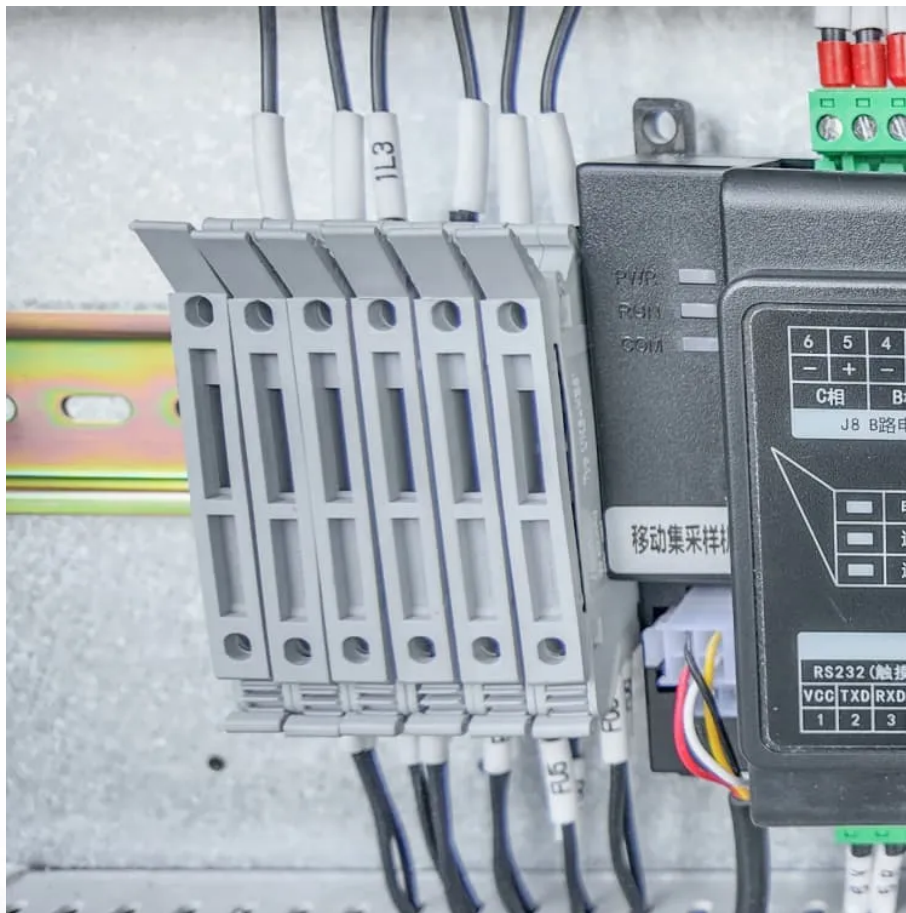


Outdoor power supply available at





Overview

Why should a power supply have a wide operating temperature range?

Depending on the application, a power supply with a wide operating temperature range may provide better reliability and a longer operating lifetime, prevent the need for a cooling fan or other special design consideration for thermal management, and reduce the overall cost of your system.

What temperature should a commercial power supply be rated?

Typical commercial power supplies are specified to support their full rated load over an ambient temperature range from zero or minus 25 degrees Celsius to around 50 degrees Celsius, and they may derate to 50% load at 70 degrees Celsius.

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.

What is a good ambient temperature for a power supply?

Some applications may require ambient operating temperatures as low as -40 degrees Celsius and as high as +85 degrees Celsius, or an even wider range. A number of factors can influence the ambient temperature that a power supply is subjected to in a given application, including the following:

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.

Should electric charging stations have a wide operating temperature power supply?

To maintain optimal performance and allow people to recharge their cars without worrying they'll become stranded in very hot or cold weather, electric charging stations should have a wide operating temperature power supply. Communications equipment often requires a ruggedized enclosure that does not always allow for adequate ventilation.



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A UPS is typically required in this scenario to provide stability during power outage events. Remote locations, often in rural areas in adverse weather conditions, require a UPS capable of ...

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The Benefits of Wide Operating Temperature Power Supplies

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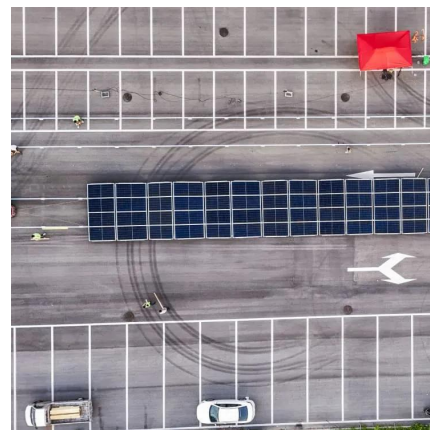
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