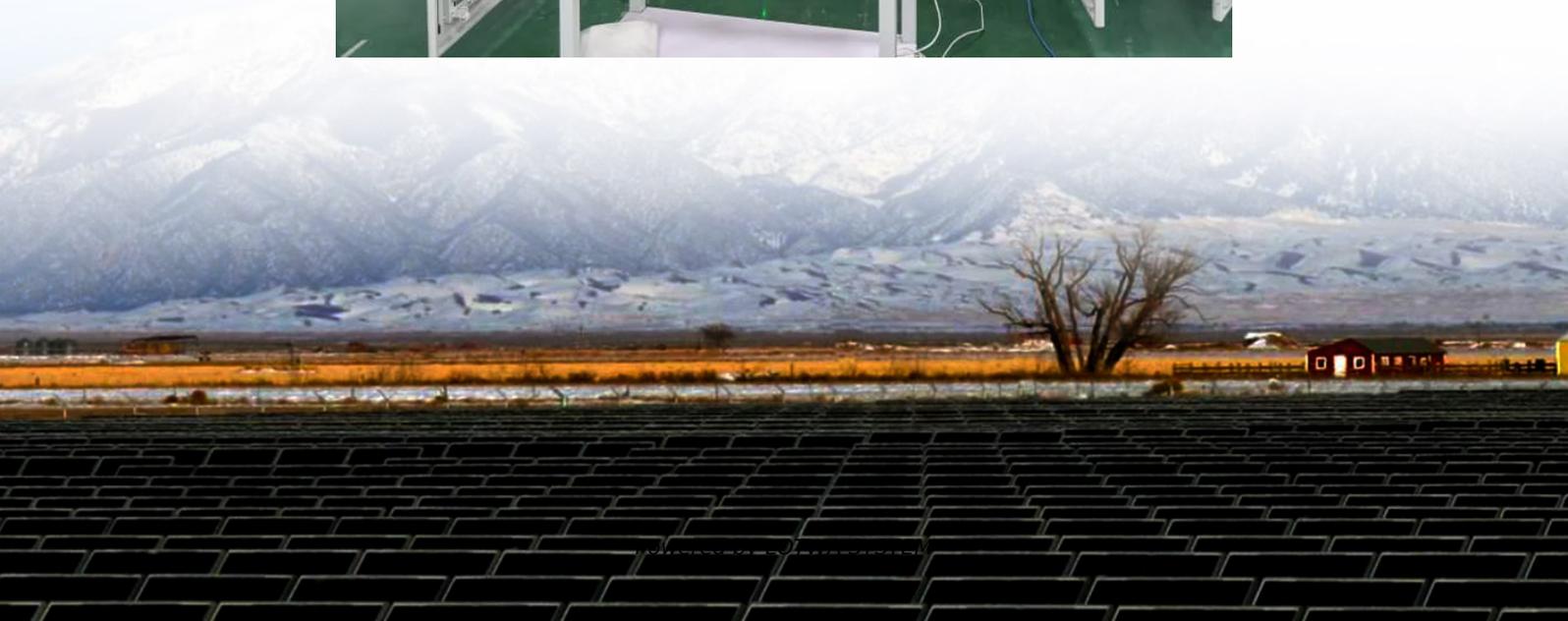


Avoid low temperatures for outdoor power supplies





Overview

What happens if a power supply temperature drops too low?

Electronics generally like the cold, but if the temperature drops too low, it can still cause problems. Low temperatures are more likely to affect performance than a power supply's lifespan. Low power supply temperatures can:

Do power supplies need to be housed outside?

Power supplies need to be housed outdoors, where the extreme heat of the summer and the extreme cold of the winter will both be present. Power supplies heat themselves up at different rates and intensities, and environmental influences will impact how quickly a power supply is exposed to high temperatures.

What happens if a power supply is cold?

Low power supply temperatures can: Increase the output ripple: The cold can add noise into the system and cause the output voltage ripple to increase, which can waste power. Prevent fully regulated outputs: Low temperatures also affect the power supply's ability to regulate its output completely.

Why does my power supply not start at cold temperatures?

If electrical characteristics change drastically enough, the power supply may not start at cold temperatures. Increase the risk of electrolytic capacitor seal failure: Extreme cold can cause electrolytic capacitors to fail, a catastrophic failure for the component.



Avoid low temperatures for outdoor power supplies

How to Protect Power Supply Outdoors

Learn essential tips to protect your power supply outdoors, ensuring safe and reliable electrical connections for all your outdoor activities and projects.

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TSK Outdoor Energy Storage Power Supply Usage Precautions: Read the manual carefully, avoid violent handling, use the original charging cable, avoid low-temperature environments, prevent ...

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