

ContainerPower Energy Solutions

Solar inverter corrosion sign



Overview

What is galvanic corrosion in solar PV?

The life of a solar PV system may be seriously effected by galvanic corrosion. The type of metal and the atmospheric conditions such as moisture and chlorides can cause serious structural failures in racking and mounting components. Galvanic Corrosion and Protection in Solar PV Installations | Greentech Renewables [Skip to main content](#) [menu](#).

Can solar PV racking corrosion occur?

The metals in solar PV racking and mounting systems can be faced with corrosion if wrong metals are used together. The life of a solar PV system is 25 years, therefore system installers must target a similar life span for the racking materials. How does galvanic corrosion occur?

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Why do PV panels get corroded?

Glass-manufactured and thin-film or frameless PV panels, in particular, can suffer the most damage when corrosion and moisture issues go uncontrollable. This then encourages the build-up of interconnecting corrosion, resulting in moisture ingress.

How to prevent corrosion in PV systems?

The installer has to be careful in choosing the right material. We usually suggest using anodized components to prevent corrosion for the PV systems that are near ocean (salt conditions). Below is a list of best practices for corrosion prevention: Use one material to fabricate electrically isolated systems or components where practical.

How do I protect my solar panels from galvanic corrosion?

For example, when installing solar panels onto mounting rails, some thought

should go into preventing galvanic corrosion between dissimilar metals. A good installer will use an anti-seize compound on the fasteners or an anti-corrosion coating designed for dissimilar metals.

How do I know if my solar panel system is failing?

Your trusted expert may mention a process called encapsulant improvement to minimize damage in your system. You must take immediate action when you see signs of delamination in your solar panel system. Some indicators of failure mechanism include imperfections or crumple on the plastic's rear surface.

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