

ContainerPower Energy Solutions

Do solar inverters need to be protected against corrosion



Overview

To ensure the stable operation of high - performance solar inverters in such harsh environments, an effective salt spray corrosion protection process is essential. 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](#).

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.

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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Does a solar inverter require maintenance?

While a home solar system barely needs any maintenance, it's important to take care of the inverter. The inverter is the most vulnerable element of the system, so it's crucial to install it properly and clean it regularly. Other maintenance tasks include checking the battery and cleaning the panels.

Are solar inverters safe?

A solar inverter is like any other electronic device in your home and it will produce some Electromagnetic radiation and potentially Radio Frequency interference. There is a standard that all approved electrical devices in Australia are required to meet (C Tick) but it does not guarantee zero emissions.

What should be avoided near a solar inverter?

The best spot for a solar inverter would be somewhere in a garage. There shouldn't be anything flammable or producing heat nearby. Contrary to solar panels, an inverter doesn't want any sunlight at all. It needs a dry place, preferably with clean air.

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