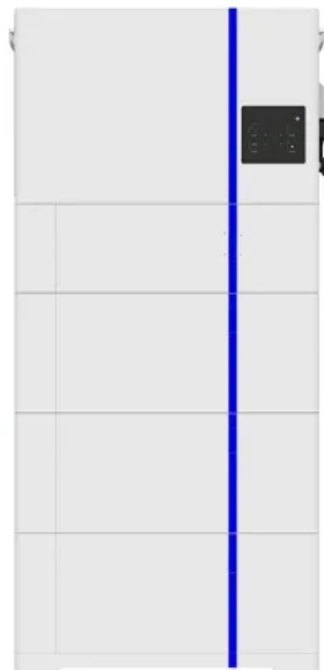
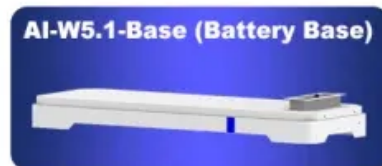
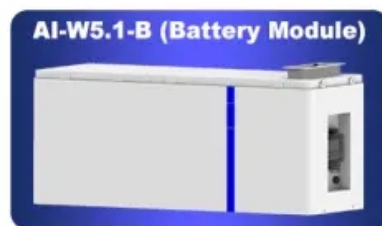


**There are some scratches on  
the glass surface of the  
photovoltaic panel**

## ESS



## There are some scratches on the glass surface of the photovoltaic p

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### What to do if the solar panel is scratched , NenPower

When a solar panel gets scratched, it is essential to recognize which components are affected. Surface scratches may only impact the glass, while deeper ones can compromise internal

### How to Fix a Broken Solar Panel? Solar Cell Maintenance and

Micro-cracks are tiny cracks on the surface of solar cells which form when the solar panel is bent. Solar panel bending is caused by extreme weather conditions, like wind, hail or snow, as well



### How to Repair Solar Panels: Common Issues and Fixes

If you need to repair solar panel glass, it's important that you first clean the surface. This way, you'll have a clear view of any scratches, dents, or cracks that need to be fixed.

### [More Than Skin Deep: A Practical Guide to Classifying Scratches on](#)

On glass, a scratch over an active cell directly blocks light from reaching the power-generating region. A scratch over a busbar or near the frame has a much smaller impact.





## Is the glass of photovoltaic panels easily damaged? -

This article explains the characteristics and causes of damage to the glass backsheet of photovoltaic panels.

## How scratches affect PV module performance and longevity

What effect does a glass scratch have on a photovoltaic (PV) module? Glass scratches on photovoltaic (PV) modules are a prevalent quality concern. While they may initially appear as



## Effects of Scratches on Solar Panels?

From what I've seen on the internet, the impact on output in the short-term might be limited, though there might be some small effects on output right around the scratches.

## Most common solar panel defects and how to deal with them

Solar panel defects are rare, but they can still occur and impact your system's performance. Understanding common solar panel defects can help you identify potential issues early



## How to Repair Scratches on Photovoltaic Panel Surface: A

Those surface scratches aren't just cosmetic nuisances - they're efficiency vampires sucking away your solar ROI. Recent NREL studies show even minor abrasions can reduce energy output by 3-8%,

## [How to Spot the Signs of Solar Panel Wear and Tear Before It's Too Late](#)

Look for physical damage like cracks, chips, or scratches on the surface, as these can reduce efficiency and allow moisture damage. Check for visible discoloration, which may indicate UV exposure has



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