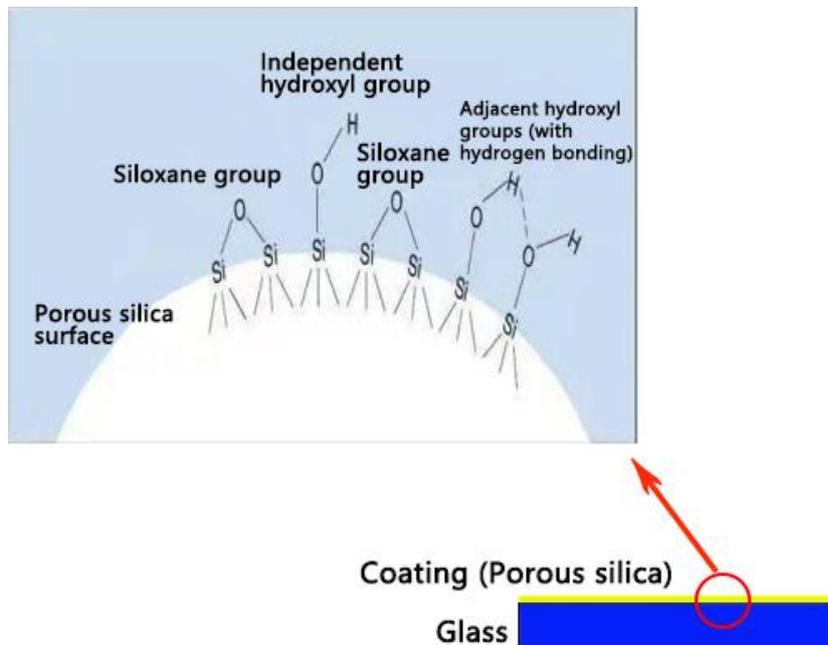


Explanation on Condensation on Aiko ABC Modules

Dear Customer,

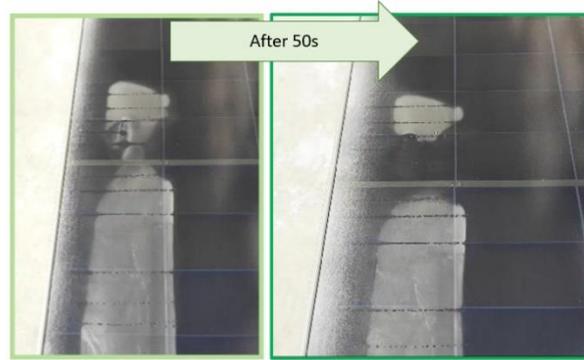
As you may aware that there are white marks appears on our Aiko-A-MAH-54Mb modules. To erase your doubts, please allow us to explain the cause of these phenomenon:

To increase light transmittance, there are coatings above the glass of our modules, and the coating is made of porous silica, a multi-hole form of silicon dioxide. This porous silica coating contains a lot of Si-O bonding and hydroxyl groups, which are easily bond to hydrogen in the water, which means the coating is a hydrophilic substance.

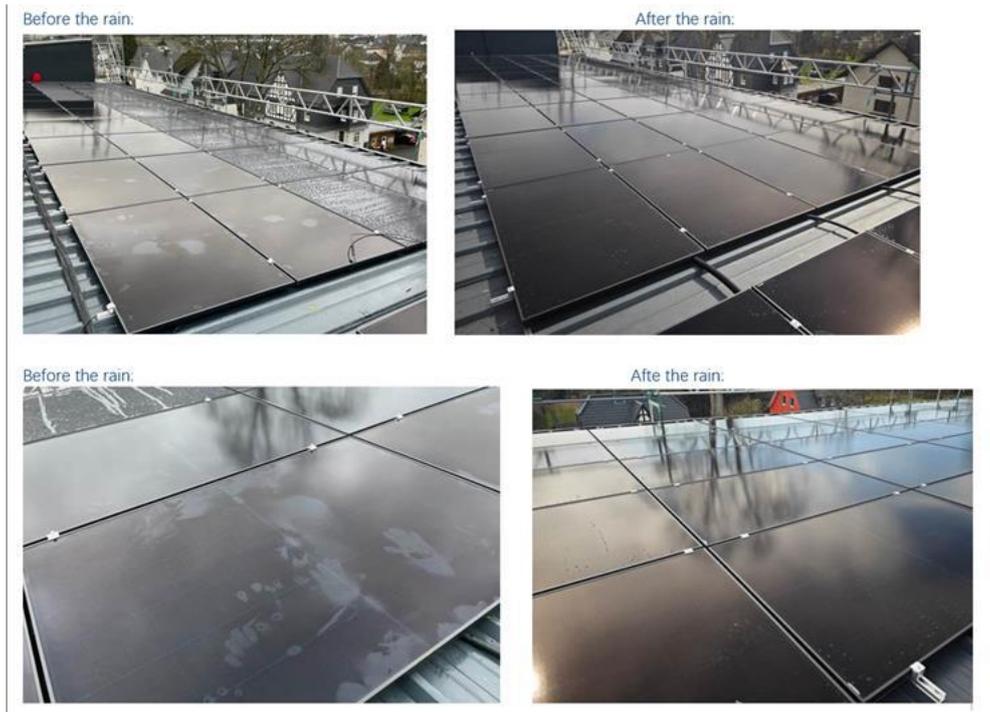


Under high humidity conditions, water vapor is prone to reaching super saturation, causing condensation above the glass surface, the hydrogen bonding in the water droplets adjacent with the oxygen ions in the siloxane group. In macro scale, the glass surface looks foggy.

And because of the adjacent hydroxyl groups are in the microscopic level, the condensation is difficult to be removed by simple wiping of wet cloths. However it can be removed by washing the glass surface with a large amount of water (as our cleaning instruction) or simply by placing it in the ambient environment for 12 hours, the foggy marks will naturally disappear and will not show again.



Also, simply a rain can wash off all the condensations, as the picture shown below:



Please rest assured with our quality and the above phenomenon is a normal physical phenomenon of hydrophilic substance, it only happens when the modules are freshly taken out of the package in a high humidity environment. Also, our warranty terms cover all the damages caused by material and design defect. Please feel free to use our products, wish you have a great experience.

Service Department

Aiko Solar

07/05/2024

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