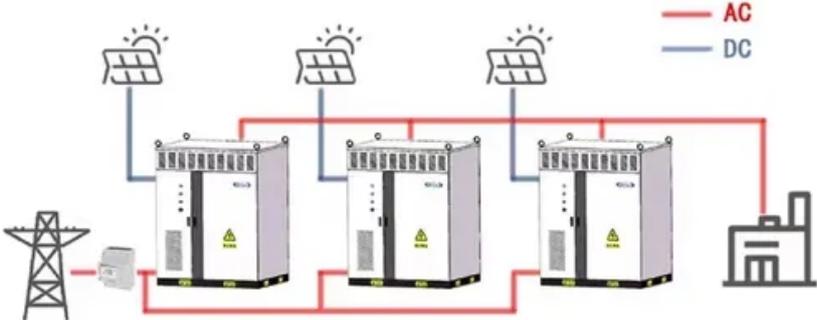


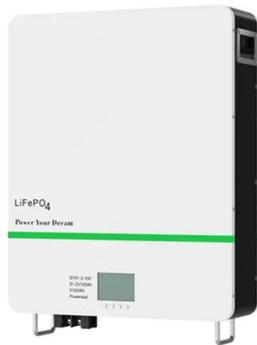
# Self-cleaning materials for solar photovoltaic panels

WORKING PRINCIPLE



## Self-cleaning materials for solar photovoltaic panels

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### [A review of self-cleaning coatings for solar photovoltaic systems](#)

TiO<sub>2</sub> is widely used to prepare super-hydrophilic coatings on glass covers of photovoltaic panels due to its good photocatalytic activity. CVD-based surface treatment is suitable for preparing ...

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In this paper, the materials, the preparation methods, the working mechanisms, and the applications in solar photovoltaic modules of self-cleaning coatings are systematically reviewed.



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Photovoltaic cells, which convert solar energy into electric energy through the photovoltaic effect, have emerged as a highly promising avenue for green and sustainable energy production. ...

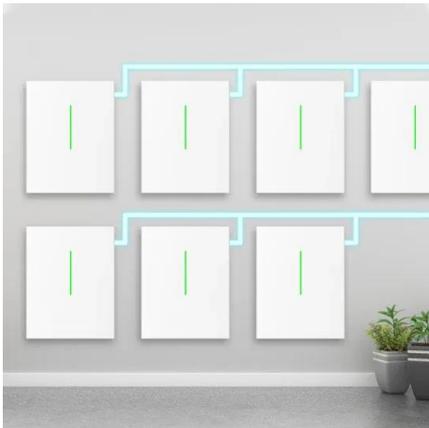


### [A review of self-cleaning coatings for solar photovoltaic systems](#)

Abstract Photovoltaic power generation is developing rapidly with the approval of The Paris Agreement in 2015. However, there are many dust deposition problems that occur in desert ...



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