

Title: Yesanguan Photovoltaic Sunshade

Generated on: 2026-03-12 14:08:46

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What is bifacial photovoltaic sunshade (bipvs)?

Author to whom correspondence should be addressed. Bifacial photovoltaic sunshade (BiPVS) is an innovative building-integrated photovoltaic (BIPV) technology. Vertically mounted BiPVS is capable of converting part of the incident solar radiation into electricity, regulating the indoor heat gain from solar penetration and improving daylighting.

Does a vertically mounted bifacial photovoltaic sunshade generate electricity?

In this study, we conducted an experiment to evaluate the thermal, light, and electrical performance of a vertically mounted bifacial photovoltaic sunshade (BiPVS). Over three consecutive days, the average daily power generation was 709.4 kJ for the west-oriented PV module and 636.7 kJ for the east-oriented one.

What is bifacial photovoltaic shading?

The buildings with high wall reflectivity and low WWR achieve more energy savings. Solar photovoltaic (PV) shading systems are of great significance for achieving low-carbon buildings. Bifacial photovoltaics (bPV) is a promising technology that can generate electricity from both the front and rear sides of bPV modules.

What is a BIPV solar sunshade?

BIPV (building-integrated photovoltaic) technology can convert incident solar energy directly into electricity while reducing cooling energy consumption. Using PV modules as a sunshade also prevents glare.

Bifacial photovoltaic sunshade (BiPVS) is an innovative building-integrated photovoltaic (BIPV) technology. Vertically mounted BiPVS is capable of converting part of the incident solar ...

Photovoltaic-integrated shading devices (PVSDs) are a key component of BIPV that can generate electricity while blocking excess daylight. However, previous studies have lacked a ...

ARTICLE INFO Keywords: BIPVS Bi-facial photovoltaic technology Sunshade Building energy saving
ABSTRACT The bi-facial photovoltaic sunshade (BiPVS) is an innovative solution that ...

The bi-facial photovoltaic sunshade (BiPVS) is an innovative solution that utilizes vertically mounted bi-facial photovoltaic modules to provide shading. The BiPVS is capable of converting incident solar ...



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Overall energy performance of building-integrated bifacial photovoltaic sunshades with different installation and building parameters in hot and humid regions

Download Citation | On Jul 1, 2023, Chunying Li and others published Energy performance of an innovative bifacial photovoltaic sunshade (BiPVS) under hot summer and warm winter climate | Find ...

Recently, the application of bifacial photovoltaic technology in the building sector has shown promise for achieving building energy-saving and carbon-neutral goals. In this study, we ...

About Yesanguan Photovoltaic Sunshade As the photovoltaic (PV) industry continues to evolve, advancements in Yesanguan Photovoltaic Sunshade have become critical to optimizing the ...

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