

Black23 Series NSEY Ultra-Efficient Bifacial URE

Can bifacial solar cells outperform monofacial cells?

Bifacial solar cells can outperform monofacial cellsby exploiting sunlight reflected off the ground surface. De Bastiani et al. show that bifacial perovskite/silicon tandem with an optimized bandgap can deliver a power density of 26 mW cm-2 and compare its performance to monofacial cells under outdoor conditions.

Which bifacial architecture has the highest monofacial energy yield?

The highest monofacial energy yield was achieved with a perovskitebandgap of 1.68 and 1.65 eV for both locations, using the identical layer stack of the bifacial architecture and an optimized perovskite thickness.

What is bifaciality in c-Si photovoltaics?

Bifaciality offers further increases in the energy yieldof c-Si photovoltaics, and can be easily implemented using silicon heterojunction (SHJ) technology by replacing the opaque rear metal contact with grid metallization 5.

How do bifacial monolithic perovskite/silicon tandem solar cells work?

Provided by the Springer Nature SharedIt content-sharing initiative Bifacial monolithic perovskite/silicon tandem solar cells exploit albedo--the diffuse reflected light from the environment--to increase their performance above that of monofacial perovskite/silicon tandems.

What is bifaciality factor (BiFi)?

When referring to the PGD at a specific rear irradiance, we use the bifaciality factor (BiFi) to indicate the intensity of the rear irradiance(that is, PGD BiFi200 26, means 26 mW cm -2 with 200 W m -2 of rear irradiance). Fig. 1: Perovskite/silicon bifacial tandems.

Does bifacial tandem perform better than monofacial?

We evaluated the bifacial tandem performance in test-field experiments and predicted the energy yield for bifacial and monofacial tandem configurations in different climates. In both cases, the bifacial tandem outperformed the monofacial configuration, which validates the promise of this technology.

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