

Title: Calculation formula for the bifaciality of photovoltaic panels

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According to IEC 60904-1-2, the measurement conditions of bifacial devices must be proportional to their bifaciality. This can be guaranteed with the natural sunlight spectrum provided ...

Bifacial modules are calculated in PV*SOL ® like conventional PV modules, which are subject to increased irradiation. The increased or effective irradiation is defined via:

Figure 5: The Bifaciality Factor (BF) is the ratio between the power measured on the front side and the power measured on the rear side, both under STC conditions (i.e. 1000W/m² illumination etc.).

The bifaciality factor is calculated by dividing the energy generated from the rear side of the panel by the total energy generated by the panel. This calculation is typically done using a ...

Among the parameters that define a bifacial photovoltaic module, the bifaciality coefficients indicate the rear and front side ratio of the most representative IV curve points of a photovoltaic ...

The toolkit provides functions and classes for simulating the performance of bifacial PV systems. Specific algorithms include design and layout of PV modules, reflective ground surfaces, ...

In PVsyst, such "Bifacial modules" will be characterized by their " Bifaciality Factor ", i.e., the ratio of the nominal efficiency at the rear side, with respect to the nominal efficiency of the front side. Remember ...

From I-V Curves to the Bifaciality Factor Once both I-V curves are captured, calculating the bifaciality factor is straightforward. It is the ratio of the rear maximum power to the front maximum power, ...

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