

# **Cost advantages of double-glass bifacial modules**





## Overview

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Why are glass-glass bifacial modules becoming more popular?

Due to their better reliability, glass-glass bifacial configurations have a larger portion of the worldwide bifacial module market share. Glass shortages, weight concerns for larger format modules, and decreasing prices for transparent backsheets have caused some manufacturers to switch to a glass-transparent backsheet structure.

What is bifacial glass technology?

Bifacial glass technology is the preferred material among manufacturers for the rear side cover of the modules. Some key advantages of the glass-glass structure are: Glass-glass modules can also be frameless, which helps eliminate the cost of an extruded aluminum frame. However, glass-glass models with frames have a lower risk of breakage.

Do bifacial modules come with frames?

As a result, most glass-glass modules come with frames in place. Compared with standard glass backsheet technology, framed modules with two layers of glass are heavier. Therefore, transparent backsheets are a solution for a lighter bifacial module. A more lightweight module means less cost on transportation, labor, and trackers whenever applicable.

Why are bifacial solar modules so expensive?

Cost is one of the biggest factors a big factor – particularly in the case of monofacial modules. Like for standard solar modules, the cost of bifacial modules has fallen precipitously over the last two decades. Notably, as costs have decreased, so too has the cost gap between mono- and bifacial modules.

Why are bifacial glass-backsheet modules becoming more popular?

In recent years, an increasing number of module manufacturers have shifted



towards transparent backsheets due to their numerous advantages over traditional glass modules. Bifacial Glass-Backsheet (G-B) modules are 17% lighter than Glass-Glass (G-G) modules.

Are bifacial double-glass solar panels better than PERC?

These panels efficiently capture more sunlight within the same area, increasing the energy capacity significantly. Maysun Solar's HJT bifacial double-glass solar panels stand out with a 30% higher rear-side energy gain compared to PERC and TOPCon technologies, and the rear-side electricity utilization rate of HJT solar panels exceeds 95%.



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[Bifacial Solar Panels: What You Should Know . Renogy US](#)

Higher Initial Cost: Bifacial solar panels generally come with a higher price tag than conventional models. This increased upfront investment can be a deterrent for some buyers, particularly in ...

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### [The Ultimate Guide to Bifacial Solar Panels](#)

Are bifacial solar panels better than traditional panels? Learn all about bifacial solar panels and whether or not they're the right choice for your solar needs in this comprehensive guide.

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[Bifacial solar panels: What you need to know](#)

The ideal use case for bifacial solar panels is in commercial and utility-scale solar installations. Because they require additional equipment and work, bifacial solar panel systems ...

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### **Bifacial Solar Panels - Efficiency, Advantages & Best Modules**

Delve into the realm of lightweight bifacial modules with a glass front side and a protective transparent back sheet. Weighing less than their



glass/glass counterparts, these modules offer ...

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### **Dual-glass vs glass-backsheet: The winning formula for bifacial modules**

Thanks to improvements in module stiffness and the better support of dual-glass design, the deformation of our dual-glass modules is much lower than that of traditional ...

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### **Bifacial solar panels: Benefits & Installation Scenarios ...**

What are the types of bifacial solar panels?  
Bifacial panels come in three different forms:  
1. Glass/glass: Bifacial panels with double-sided glass surfaces are ...

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### **7 Advantages of Bifacial Glass-Backsheet Modules over Glass-Glass Modules**

Unlike traditional PV modules, bifacial modules can generate power from both the front and the back, resulting in higher power output within the same space. This has made ...

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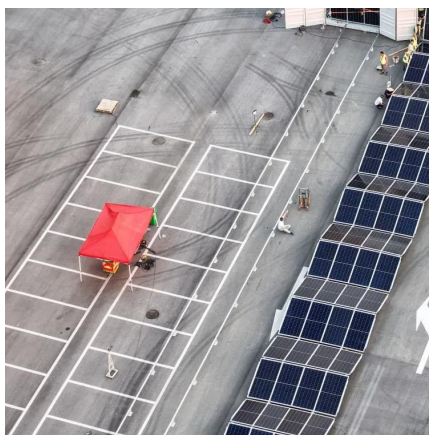




## The Difference Between Bifacial Module and Double Glass Bifacial Module

In summary, the primary difference between a bifacial module and a double glass bifacial module is the presence of glass on both sides in the latter, which provides improved ...

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## Choose Right: Bifacial vs Glass-Glass Solar Panels Decision Guide

1 day ago· Forcing the wrong solar technology costs money and performance. This guide provides clear decision frameworks for choosing between bifacial's energy gains, glass-glass's ...

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## Bifacial Solar Panels: What You Need To Know - Forbes Home

Advantages of Bifacial Solar Panels: Increased efficiency: Thanks to their dual-sided design, bifacial panels can harness more sunlight, potentially boosting energy production.

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## Bifacial solar panels: Benefits & Installation Scenarios (2024)

Compared to single-glass PV modules, glass-glass PV modules deliver superior performance and longer service life. Learn more about their advantages, key purchasing considerations, and ...

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## Bifacial Solar Panels: What are They and How Do They Work?

The Advantages of Bifacial Solar Panels  
Increased Efficiency. As bifacial modules can produce powers from both sides of the panel, there is an overall increase in energy ...

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