



# Rayzon Bifacial Solar Panel: Next-Gen Solar Efficiency for Commercial & Residential Use

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## Why Traditional Solar Panels Leave Energy on the Table

Have you ever wondered why most solar panels only harness sunlight from one side? Conventional monofacial modules waste the reflected light bouncing off rooftops, sand, or snow - a critical oversight in today's energy-hungry world. This limitation becomes glaringly obvious in high-demand markets like California, where households pay \$0.32 per kWh while unused photons escape into thin air.

## The Hidden Cost of Single-Sided Energy Capture

Standard panels lose 15-25% of potential energy yield by ignoring rear-side illumination. For a 10 kW system, that's equivalent to powering 2 extra refrigerators annually. Now imagine multiplying this inefficiency across an entire solar farm - the losses become staggering.

## How Rayzon Bifacial Technology Rewrites the Rules

Rayzon's double-sided solar modules feature:

- Transparent backsheet allowing 30%+ rear irradiance absorption
- PERC cells with 21.8% front-side conversion efficiency
- Anti-PID (Potential Induced Degradation) coating

## Proven Performance in Extreme Conditions

During field tests in Dubai's desert climate, Rayzon bifacial panels generated 27% more daily energy than monofacial equivalents. The secret? Their ability to capture reflected light from sand surfaces while maintaining 98.6% performance stability in 50°C heat.

"The dual harvest capability makes bifacial modules indispensable for high-ambient environments." - Solar Energy Industries Association 2023 Report

## Smart Installation = Maximum ROI

While traditional panels demand perfect south-facing angles, Rayzon's solution thrives in diverse orientations. A German commercial installation achieved 19% annual yield improvement using east-west mounting - perfect for sites with space constraints.

## Cold Weather Champion

In Canada's snow-prone Alberta region, these panels demonstrated 33% winter productivity gains. The rear side absorbs light reflected from snow cover while the anti-reflective coating prevents ice accumulation.

## 3 Critical Questions Answered



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Q1: Does bifacial technology require special maintenance?

No - Rayzon's glass-glass construction needs the same cleaning routine as standard panels while offering superior resistance to microcracks.

Q2: Are these panels compatible with existing inverters?

Yes, they work with all major string and microinverters, though we recommend pairing them with 1500V systems for maximum efficiency.

Q3: What's the break-even period compared to conventional panels?

Most installations recover the 8-12% upfront cost premium within 18 months through higher energy output and lower degradation rates.

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