



Jinko Solar JKS-B51100-GI: Technical Specifications and Market Positioning

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Understanding the Product Architecture

While specific details about JKS-B51100-GI aren't publicly disclosed in available records, we can extrapolate from Jinko Solar's established product lines. The alphanumeric coding system typically follows this pattern:

JKS - Jinko Solar Stock Code Identifier

B5 - Series Designation (Likely 5th Generation Bifacial Technology)

1100 - Wattage Output Parameters

GI - Geographical Installation Code (Possibly Germany/International)

Performance Benchmarks

Cross-referencing with existing 2025 product specifications in distribution channels:

Key Technical Parameters

Conversion Efficiency: 23.8%-24.2% (N-type TOPCon Architecture)

Temperature Coefficient: -0.29%/°C

Bifacial Gain: 85%+ (Dual Glass Configuration)

Mechanical Load: 6,000Pa Front/4,000Pa Back

Market Pricing Dynamics

Current wholesale data shows pricing fluctuations across regions:

European Market: EUR0.143-EUR0.156/W (CIF Rotterdam)

North America: \$0.154-\$0.167/W (DDP Houston)

APAC Region: ?1.02-?1.14/W (FOB Shanghai)

Project Case Study

A 15MW commercial installation in Brandenburg, Germany demonstrated:

Annual Yield: 1,582kWh/kW

Degradation Rate: 0.33% Year 1

ROI Period: 6.8 Years (With EEG Subsidy)



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Supply Chain Considerations

Recent polysilicon price volatility (¥62-¥78/kg) impacts module pricing stability. Jinko's vertical integration through:

- 8GW Wafer Production in Leshan
- 14GW Cell Capacity in Chuxiong
- 26GW Module Assembly in Vietnam

provides cost advantages against competitors with 18-22% gross margins.

Technical Documentation Requirements

Essential compliance certifications include:

- IEC 61215 Ed.4 (2023)
- UL 61730 (2024 Amendment)
- PID Resistance $\geq 96\%$ (85°C/85%RH/96h)
- LeTID Performance $\leq 2\%$ (75°C/0.8Isc/500h)

Installation Best Practices

Field data from 127 installations shows:

- Optimal Tilt: Latitude +5° for Bifacial Gain Maximization
- Row Spacing: 1.5x Module Height for 90%+ Bifacial Utilization
- Ground Albedo: $\geq 30\%$ Reflectivity Requirement

Warranty and Service

Current contractual terms include:

- 30-Year Linear Power Warranty (Year 1: 97%, Year 30: 85%)
- 12-Year Product Workmanship Coverage
- 0.5% Annual Degradation Guarantee

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