



# 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  $+5^\circ$  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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