

Jinko Solar JKM495/JKM500/JKM505/JKM510/JKM515/JKM520N-54HL4M-BDV-F1

A bifacial dual-glass panel that generates from both faces, so the same roof or ground area quietly returns more energy every day of its life.

Models Covered: JKM495N-54HL4M-BDV-F1, JKM500N-54HL4M-BDV-F1, JKM505N-54HL4M-BDV-F1, JKM510N-54HL4M-BDV-F1, JKM515N-54HL4M-BDV-F1, JKM520N-54HL4M-BDV-F1

Manufacturer: Jinko Solar Co., Ltd.

Application: A dual-glass bifacial module built on N-type TOPCon cells, with HOT 3.0 and SMBB technology for stronger light capture and far slower ageing than a conventional panel. Its clear rear face turns light bouncing off a roof, sand or concrete into extra output, which makes it a natural fit for commercial rooftops, carports and ground-mounted plants. Two sheets of glass, an anodised aluminium frame and an Anti-PID guarantee carry it through thirty years of sun, salt and dust.

Technical Specifications

Parameter	JKM495N-54HL4M-BDV-F1	JKM500N-54HL4M-BDV-F1	JKM505N-54HL4M-BDV-F1	JKM510N-54HL4M-BDV-F1	JKM515N-54HL4M-BDV-F1	JKM520N-54HL4M-BDV-F1
PV String Input Data						
Maximum Power (Pmax)	495W	500W	505W	510W	515W	520W
Module Efficiency	22.26%	22.48%	22.71%	22.93%	23.16%	23.38%
Cell Technology	N- type Mono-crystalline					
Power Output Tolerance	0 ~ + 3 %					
Temperature Coefficient of Isc	0.045 %/°C					
Temperature Coefficient of Pmax	—	—	-0.29 %/°C	-0.29 %/°C	—	—
Temperature Coefficient of Voc	—	—	-0.25 %/°C	-0.25 %/°C	—	—
Electrical / AC Output Data						
Current at Maximum Power (Impp)	14.68 A	14.73 A	14.78 A	14.83 A	14.88 A	14.93 A
Open Circuit Voltage (Voc)	40.21 V	40.38 V	40.55 V	40.72 V	40.89 V	41.06 V
Short Circuit Current (Isc)	15.58 A	15.63 A	15.68 A	15.73 A	15.78 A	15.83 A
Voltage at Maximum Power (Vmpp)	33.72 V	33.95 V	34.17 V	34.39 V	34.62 V	34.83 V
Protection Features						
Junction Box	IP68 Rated	—	—	—	—	B B
Fire Rating	Class C					
Protection Class	Class II					

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Mechanical Data						
Back Glass	2.0 mm, Heat Strengthened Glass					
Connector Type	JK03M / JK03M2 / Others*					
Dimensions (W×H×D)	1961×1134×30 mm					
Frame Material	Anodized Aluminium Alloy					
Front Glass	2.0 mm, Anti-reflection Coating					
Number of Cells	108 (54×2)	108 (54×2)	—	—	—	1961±2mm
Weight	27.0 kg					
Output Cable	4.0 mm2					
Packing Detail	37 pcs/pallets, 74 pcs/stack,					
Pallet Dimensions	1981×1140×1249 mm					

Note: Specifications are based on the official Jinko Solar JKM495/JKM500/JKM505/JKM510/JKM515/JKM520N-54HL4M-BDV-F1 datasheet. Values may be subject to change; always verify against the latest manufacturer documentation before system design and procurement.

Availability & grid compliance in UAE

Market	UAE
Grid authority / regulator	DEWA, ADDC, SEWA
Quotation currency	AED
Support hours timezone	Asia/Dubai
Delivery & installation coverage	Dubai, Abu Dhabi, Sharjah, Ajman, Ras Al Khaimah

Figures on this page are the manufacturer's own, measured at the test conditions the datasheet states — they do not change by country. What changes is the approval that has to be met before the unit is energised: in UAE that is DEWA, ADDC, SEWA. Confirm the grid code, import requirements and any local certification with them, or with us, before you order.

Key Features & Technical Highlights

- **Both faces generate:** The clear rear face converts reflected light at 80% of the front's efficiency, adding roughly a tenth more power under the datasheet's bifacial test conditions.
- **Glass on both sides:** Two 2 mm panes, anti-reflective at the front and heat-strengthened at the back, replace the plastic backsheet that normally ages first.
- **Anti-PID guarantee:** Cell processing and material control suppress potential-induced degradation, and the module is certified to IEC 62804.
- **Built for wind and heat:** Certified to 5400 Pa of load on the front and 2400 Pa from behind, and rated to run from -40 C to +70 C.

Frequently Asked Questions

- ▶ How much extra energy does the bifacial rear side really give?
- ▶ What warranty comes with this panel?
- ▶ What size and weight should I plan the mounting for?

Official Source & Documentation

This technical datasheet is derived from official manufacturer documentation provided by **Jinko Solar Co., Ltd.**. For the latest specifications, firmware updates, and official documentation, visit the manufacturer's website.

- **Manufacturer Website:** www.jinkosolar.com
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Disclaimer: All specifications and technical data presented on this page are based on the official Jinko Solar JKM495/JKM500/JKM505/JKM510/JKM515/JKM520N-54HL4M-BDV-F1 datasheet published by Jinko Solar Co., Ltd. Specifications are subject to change without notice. Always verify against the latest manufacturer documentation at jinkosolar.com before system design, procurement, or installation. Compliance with local regulations, grid codes (DEWA, ADDC, SEWA) and utility requirements in UAE is the responsibility of the system designer/installer.

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