

Jinko Solar JKM450/JKM455/JKM460/JKM465/JKM470/JKM475N-48HL4M-DB-Z3

An all-black, glass-on-glass N-type panel that blends into a roof and shrugs off salt, sand and humidity for decades.

Models Covered: JKM450N-48HL4M-DB-Z3, JKM455N-48HL4M-DB-Z3, JKM460N-48HL4M-DB-Z3, JKM465N-48HL4M-DB-Z3, JKM470N-48HL4M-DB-Z3, JKM475N-48HL4M-DB-Z3

Manufacturer: Jinko Solar Co., Ltd.

Application: A compact 96 half-cell N-type TOPCon module sealed between two panes of 2 mm glass instead of a plastic backsheet, so damp, salt mist and ammonia have nothing to attack. All-black and mono-facial, it lies flush on a pitched roof without giving up rear-side yield, while a 6,000 Pa front load rating and a –40 °C to +70 °C range suit exposed commercial and industrial installations. Anti-PID cell processing protects output in the early years.

Technical Specifications

Parameter	JKM450N-48HL4M-DB-Z3	JKM455N-48HL4M-DB-Z3	JKM460N-48HL4M-DB-Z3	JKM465N-48HL4M-DB-Z3	JKM470N-48HL4M-DB-Z3
PV String Input Data					
Maximum Power (Pmax)	450W	455W	460W	465W	470W
Module Efficiency	22.52%	22.77%	23.02%	23.27%	23.52%
Cell Technology	N- type Mono-crystalline				
Power Output Tolerance	0 ~ + 3 %				
Temperature Coefficient of Isc	—	—	0.045 %/°C	0.045 %/°C	—
Temperature Coefficient of Pmax	-0.29 %/°C				
Temperature Coefficient of Voc	—	—	-0.25 %/°C	-0.25 %/°C	—
Electrical / AC Output Data					
Current at Maximum Power (Impp)	14.88 A	14.93 A	14.98 A	15.03 A	15.08 A
Maximum System Voltage	1500 VDC (IEC)				
Open Circuit Voltage (Voc)	36.06 V	36.23 V	36.40 V	36.57 V	36.74 V
Short Circuit Current (Isc)	15.66 A	15.71 A	15.76 A	15.81 A	15.86 A

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Voltage at Maximum Power (Vmpp)	30.25 V	30.48 V	30.71 V	30.94 V	31.17 V
Protection Features					
Maximum Series Fuse Rating	30 A				
Junction Box	IP68 Rated				
Fire Rating	Class C				
Protection Class	Class II				
Mechanical Data					
Back Glass	2.0 mm, Heat Strengthened Glass				
Connector Type	JK03M/JK03M2/Others*	JK03M/JK03M2/Others*	JK03M/JK03M2/Others*	—	—
Dimensions (W×H×D)	1762×1134×30 mm				
Frame Material	Anodized Aluminium Alloy				
Front Glass	2.0 mm, Anti-reflection Coating				
Number of Cells	96 (48×2)				
Weight	24.0 kg				
Output Cable	4.0 mm2				
Packing Detail	37 pcs/pallets, 74 pcs/stack,				
Pallet Dimensions	1792×1140×1249 mm				
Operating Conditions					

Parameter	JKM450N-48HL4M-DB-Z3	JKM455N-48HL4M-DB-Z3	JKM460N-48HL4M-DB-Z3	JKM465N-48HL4M-DB-Z3	JKM470N-48HL4M-DB-Z3
Operating Temperature	-40 °C ~ +70 °C				

Note: Specifications are based on the official Jinko Solar JKM450/JKM455/JKM460/JKM465/JKM470/JKM475N-48HL4M-DB-Z3 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

- More kilowatt-hours per square metre:** N-type TOPCon cells with super-multi-busbar current collection carry module efficiency past 22%.
- Two sheets of glass, no backsheet:** A 2 mm anti-reflective front and a 2 mm heat-strengthened rear seal the cells instead of the plastic film that normally ages first.
- Certified for punishing sites:** High salt-mist and ammonia resistance plus a 6,000 Pa front load rating suit coastal, desert and agricultural roofs.
- Keeps its output when it gets hot:** Power falls only 0.29% per degree above test conditions, with operation certified to +70 °C.

Frequently Asked Questions

- ▶ Is this a bifacial panel?
- ▶ What warranty comes with it?
- ▶ What size and weight should I plan for when mounting?

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
- **Technical Support:** sales@jinko-solar.ae | +971 4 255 0887
- **Sales Inquiries:** sales@jinko-solar.ae | +971 4 255 0887

Disclaimer: All specifications and technical data presented on this page are based on the official Jinko Solar JKM450/JKM455/JKM460/JKM465/JKM470/JKM475N-48HL4M-DB-Z3 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.

Last Updated: 2026-08-20 | **Document Version:** 2.0 | **Data Source:** Jinko Solar Official Datasheet | **Published by:** Jinko Solar Panels (jinko-solar.ae)