

Jinko Solar JKM445/JKM450/JKM455/JKM460/JKM465/JKM470N-48HL4M-BDV-Z2

A dual-glass bifacial panel that gathers light on both of its faces, so the same patch of roof or ground quietly returns more energy every year.

Models Covered: JKM445N-48HL4M-BDV-Z2, JKM450N-48HL4M-BDV-Z2, JKM455N-48HL4M-BDV-Z2, JKM460N-48HL4M-BDV-Z2, JKM465N-48HL4M-BDV-Z2, JKM470N-48HL4M-BDV-Z2

Manufacturer: Jinko Solar Co., Ltd.

Application: A bifacial dual-glass module built on N-type TOPCon cells, compact and light enough for two installers to handle on a pitched roof, a carport canopy or a ground-mounted row. Its clear rear face collects the light bouncing off the surface below, adding roughly a tenth again to the day's harvest over bright ground. Glass on both sides, an anodized aluminium frame and certified snow and uplift loading keep it producing through decades of weather.

Technical Specifications

Parameter	JKM445N-48HL4M-BDV-Z2	JKM450N-48HL4M-BDV-Z2	JKM455N-48HL4M-BDV-Z2	JKM460N-48HL4M-BDV-Z2	JKM465N-48HL4M-BDV-Z2	JKM470N-48HL4M-BDV-Z2
PV String Input Data						
Maximum Power (Pmax)	445W	450W	455W	460W	465W	470W
Module Efficiency	22.27%	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)	14.69 A	14.74 A	14.79 A	14.84 A	14.89 A	14.94 A
Open Circuit Voltage (Voc)	36.02 V	36.19 V	36.36 V	36.53 V	36.70 V	36.87 V
Short Circuit Current (Isc)	15.60 A	15.65 A	15.70 A	15.75 A	15.80 A	15.85 A
Voltage at Maximum Power (Vmpp)	30.30 V	30.53 V	30.77 V	31.00 V	31.23 V	31.46 V
Protection Features						
Junction Box	IP68 Rated					
Fire Rating	Class C					

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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)	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

Note: Specifications are based on the official Jinko Solar JKM445/JKM450/JKM455/JKM460/JKM465/JKM470N-48HL4M-BDV-Z2 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

- **Two working faces, one panel:** The clear rear glass turns light reflected off the roof or ground into extra output, worth about a tenth again on bright surfaces.
- **Holds its output when the roof is hot:** N-type TOPCon cells give up less power as temperatures climb, so summer afternoons stay productive.
- **Built for weather, not for the showroom:** Glass front and back, an anodized frame, an anti-PID guarantee and certified resistance to salt mist and ammonia for coastal and farm sites.
- **Starts earlier, finishes later:** Fine multi-busbar cells collect current more evenly and work better in weak light, stretching the productive hours at both ends of the day.

Frequently Asked Questions

- ▶ How much extra energy does the bifacial back really give me?
- ▶ What warranty comes with the panel?
- ▶ How big and heavy is it, and will it suit my mounting rails?

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 JKM445/JKM450/JKM455/JKM460/JKM465/JKM470N-48HL4M-BDV-Z2 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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