

Jinko Solar JKM525/JKM530/JKM535/JKM540/JKM545N-54QL6-DV-F1

A dual-glass N-type panel sized for real rooftops — steady output through high heat and weak light, backed by three decades of guaranteed power.

Models Covered: JKM525N-54QL6-DV-F1, JKM530N-54QL6-DV-F1, JKM535N-54QL6-DV-F1, JKM540N-54QL6-DV-F1, JKM545N-54QL6-DV-F1

Manufacturer: Jinko Solar Co., Ltd.

Application: Built on Jinko's N-type TOPCon cell platform, this mono-facial module is sealed between two panes of glass — anti-reflective in front, heat-strengthened behind — instead of a plastic backsheet. Its compact 54-cell frame stays under 28 kg, easy to lift onto villa and warehouse roofs, and it is rated for 5400 Pa of front load and certified against salt mist, ammonia and blowing sand — the conditions coastal and desert sites actually deliver.

Technical Specifications

Parameter	JKM525N-54QL6-DV-F1	JKM530N-54QL6-DV-F1	JKM535N-54QL6-DV-F1	JKM540N-54QL6-DV-F1	JKM545N-54QL6-DV-F1
PV String Input Data					
Maximum Power (Pmax)	525W	530W	535W	540W	545W
Module Efficiency	23.38%	23.60%	23.83%	24.05%	24.27 refer to the corresponding detailed module drawings.%
Cell Technology	N- type Mono-crystalline				
Power Output Tolerance	0 ~ + 3 %				
Temperature Coefficient of Isc	—	—	0.046 %/°C	—	—
Temperature Coefficient of Pmax	-0.26 %/°C				
Temperature Coefficient of Voc	-0.24 %/°C				
Electrical / AC Output Data					
Current at Maximum Power (Impp)	15.45 A	15.52 A	15.58 A	15.64 A	15.71 28 A
Maximum System Voltage	1500 V DC (IEC)	1500 V DC (IEC)	—	—	50 V
Open Circuit Voltage (Voc)	39.78 V	39.95 V	40.12 V	40.29 V	40.46 V
Short Circuit Current (Isc)	16.24 A	16.28 A	16.33 A	16.37 A	16.42 A
Voltage at Maximum Power (Vmpp)	33.98 V	34.16 V	34.34 V	34.52 V	34.70 V
Protection Features					
Maximum Series Fuse Rating	30 A				
Junction Box	IP68 Rated				

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Fire Rating	Class C				
Protection Class	Class II	—	—	—	—
Mechanical Data					
Back Glass	2.0 mm, Heat Strengthened Glass				
Connector Type	JK03M/JK03M2/Others*				
Dimensions (W×H×D)	1980×1134×30 mm				
Frame Material	Anodized Aluminium Alloy				
Front Glass	2.0 mm, Anti-reflection Coating				
Number of Cells	216 (54×4)				
Weight	27.5 kg				
Output Cable	≥4.0 mm²	—	—	—	860±1mm
Operating Conditions					
Operating Temperature	- 40 °C to +70 °C*				

Note: Specifications are based on the official Jinko Solar JKM525/JKM530/JKM535/JKM540/JKM545N-54QL6-DV-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

- **Still working in weak light:** The enhanced N-type cell structure keeps the panel producing at dawn, at dusk and under cloud, not only at midday.
- **Hot afternoons cost less:** An optimised temperature coefficient of $-0.26\text{ \%/}^{\circ}\text{C}$ and certified operation from $-40\text{ }^{\circ}\text{C}$ to $+70\text{ }^{\circ}\text{C}$ keep summer losses small.
- **Glass on both faces:** A 2.0 mm anti-reflective front and a 2.0 mm heat-strengthened back replace the plastic backsheet, with encapsulation proven against PID, LID/LeTID and UV ageing.
- **Rated for storm loads:** Certified to 5400 Pa of pressure on the front and 2400 Pa on the rear, with an IP68 junction box and an anodised aluminium frame.

Frequently Asked Questions

- ▶ Is this a bifacial panel — will it generate from the back?
- ▶ What size and weight should I plan the mounting for?
- ▶ What does the warranty actually cover?

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 JKM525/JKM530/JKM535/JKM540/JKM545N-54QL6-DV-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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