



THE MOST DEPENDABLE SOLAR PRODUCT

EAGLE 78TR G4b

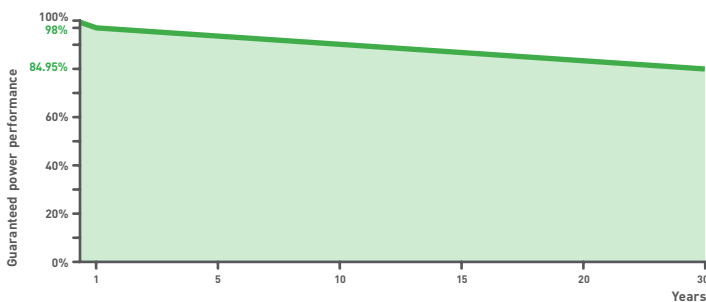
445-465 WATT TILING RIBBON BIFACIAL MODULE

Positive power tolerance of 0~+3%

- NYSE-listed since 2010, Bloomberg Tier 1 manufacturer
- Top performance in the strictest 3rd party labs
- Automated manufacturing utilizing artificial intelligence
- Vertically integrated, tight controls on quality
- Premium solar factories in USA, Vietnam, and Malaysia

LINEAR PERFORMANCE WARRANTY

30-Year Performance Warranty
12-Year Workmanship Warranty



*Warranty details available at <https://jinkosolar.us/download-center/#warranty-documents>

Nomenclature:

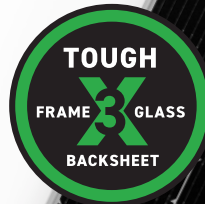
JKM465M-78TR3-TV

Type	Cell Size	Backsheet
78TR	163.75mm	Transparent



- ISO9001:2015 Quality Standards
- ISO14001:2015 Environmental Standards
- IEC61215, IEC61730 certified products

- ISO45001:2018 Occupational Health & Safety Standards
- UL61730 certified products



KEY FEATURES



TR Technology

TR technology eliminates cell gaps to increase module efficiency and power.



Bifacial Power Gain

Bifacial cell architecture allows backside bonus and more lifetime power yield.



Light-Weight Design

Use of transparent backsheet allows for easy installation and lower BOS cost.



Thick and Tough

Fire Type 1 rated module engineered with a thick frame, 3.2mm front side glass, and thick backsheet for added durability.



Shade Tolerant

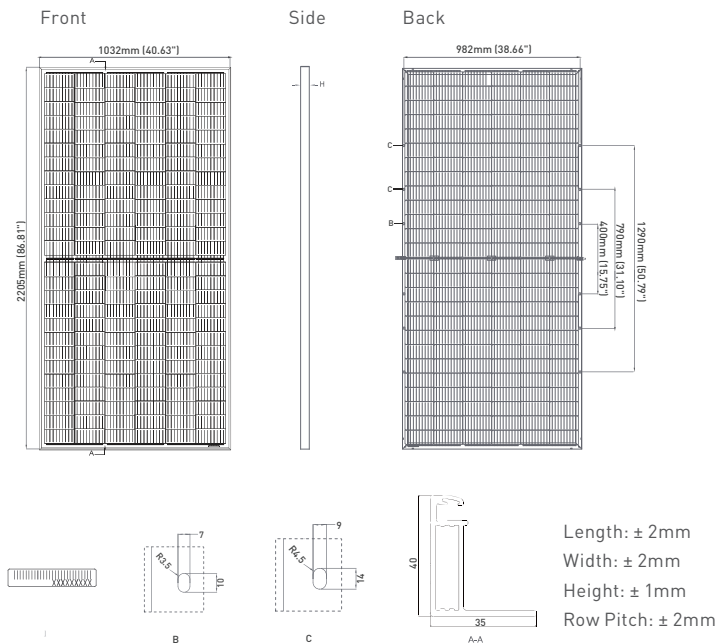
Twin array design allows continued performance even with shading by trees or debris.



Protected Against All Environments

Certified to withstand humidity, heat, rain, marine environments, wind, hailstorms, and packed snow.

ENGINEERING DRAWINGS



MECHANICAL CHARACTERISTICS

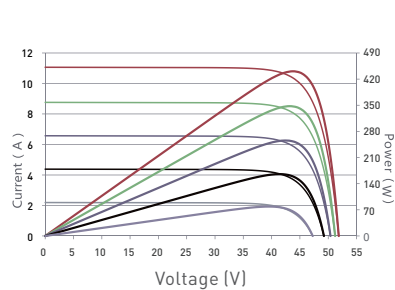
No. of Half Cells	156 (2x78)
Dimensions	2205x1032x40mm [86.81x40.63x1.57in]
Weight	26.5kg [58.42lbs]
Front Glass	3.2mm, Anti-Reflection Coating High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68 Rated
Output Cables	12 AWG, 1400mm [55.12in] or Customized Length
Fire Type	Type 1
Pressure Rating	5400Pa (Snow) & 2400Pa (Wind)
Hailstone Test	45mm Hailstones at 29m/s

TEMPERATURE CHARACTERISTICS

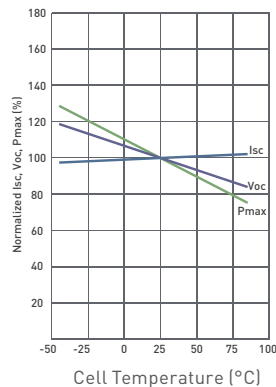
Temperature Coefficients of Pmax	-0.35%/°C
Temperature Coefficients of Voc	-0.28%/°C
Temperature Coefficients of Isc	0.048%/°C
Nominal Operating Cell Temperature (NOCT)	45 $\pm$ 2°C
Refer. Bifacial Factor	70 $\pm$ 5%

ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE

Current-Voltage & Power-Voltage
Curves (475W)



Temperature Dependence
of Isc, Voc, Pmax



MAXIMUM RATINGS

Operating Temperature (°C)	-40°C~+85°C
Maximum System Voltage	1500VDC (UL and IEC)
Maximum Series Fuse Rating	25A

PACKAGING CONFIGURATION

(Two pallets = One stack)
 27pcs/pallet, 54pcs/stack, 540pcs/40'HQ Container

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

5%	Maximum Power (Pmax)	467Wp	473Wp	478Wp	483Wp	488Wp
	Module Efficiency (%)	20.53%	20.76%	20.99%	21.23%	21.46%
15%	Maximum Power (Pmax)	512Wp	518Wp	523Wp	529Wp	535Wp
	Module Efficiency (%)	22.49%	22.74%	22.99%	23.25%	23.50%
25%	Maximum Power (Pmax)	556Wp	563Wp	569Wp	575Wp	581Wp
	Module Efficiency (%)	24.44%	24.72%	24.99%	25.27%	25.54%

ELECTRICAL CHARACTERISTICS

Module Type	JKM445M-7RL3-TV		JKM450M-7RL3-TV		JKM455M-7RL3-TV		JKM460M-7RL3-TV		JKM465M-7RL3-TV	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	445Wp	331Wp	450Wp	335Wp	455Wp	339Wp	460Wp	342Wp	465Wp	346Wp
Maximum Power Voltage [Vmp]	43.13V	39.51V	43.19V	39.62V	43.25V	39.73V	43.32V	39.84V	43.38V	39.95V
Maximum Power Current [Imp]	10.32A	8.38A	10.42A	8.45A	10.52A	8.52A	10.62A	8.59A	10.72A	8.66A
Open-circuit Voltage [Voc]	51.60V	48.70V	51.70V	48.80V	51.80V	48.89V	51.90V	48.99V	52.00V	49.08V
Short-circuit Current [Isc]	11.08A	8.95A	11.17A	9.02A	11.26A	9.09A	11.35A	9.17A	11.44A	9.24A
Module Efficiency STC (%)	19.56%		19.78%		20.00%		20.21%		20.43%	

*STC: ☀ Irradiance 1000W/m²

NOCT: ☀ Irradiance 800W/m²

🌡 Cell Temperature 25°C

🌡 Ambient Temperature 20°C

☁ AM = 1.5

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🌀 Wind Speed 1m/s

*Power measurement tolerance: $\pm 3\%$

The company reserves the final right to explain any of the information presented. JKM445-465M-7RL3-TV-A3-US

BUILDING YOUR TRUST IN SOLAR. WWW.JINKOSOLAR.US

Jinko Solar