EAGLE
MODULES

THE MOST DEPENDABLE SOLAR BRAND

EAGLE 78TR G4b

455-475 WATT
TILING RIBBON BIFACIAL MODULE

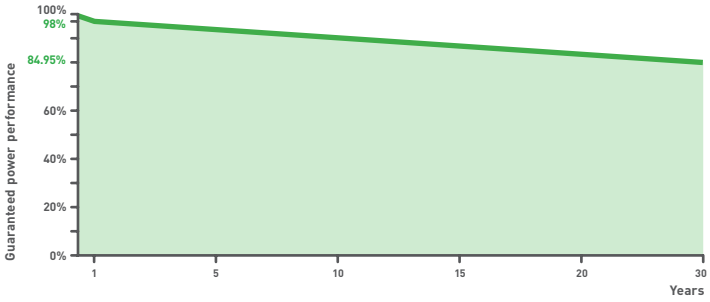
Positive power tolerance of 0~+3%

- NYSE-listed since 2010, Bloomberg Tier 1 manufacturer
- Best-selling panel globally for last 4 years
- Top performance in the strictest 3rd party labs
- Automated manufacturing utilizing artificial intelligence
- Vertically integrated, tight controls on quality
- Premium solar panel factories in USA and Malaysia

TOUGH FRAME 3X GLASS BACKSHEET

LINEAR PERFORMANCE WARRANTY

30-Year Performance Warranty



Nomenclature:
JKM475M-7RL3-TV

Type	Cell Size	Code	Certification
78TR	163.75mm	T	Transparent Backsheet

c UL us LISTED

- 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.

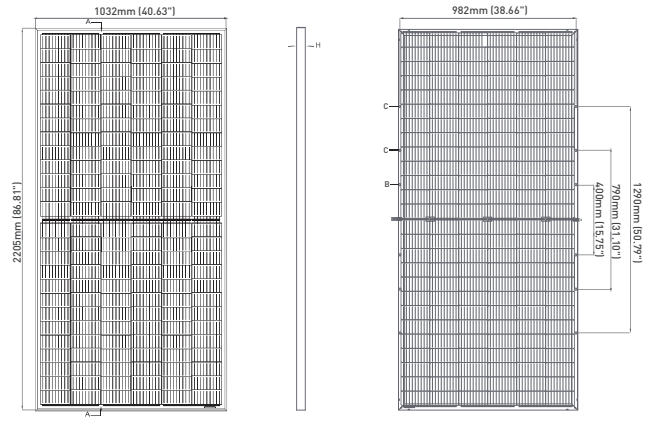
Thick and Tough
Fire Type 1 rated module engineered with a thick frame, 3.2mm front side glass, and thick backsheet for added durability.

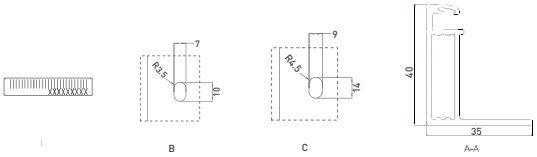
Shade Tolerant
Twin array design allows continued performance even with shading by trees or debris.

Protected Against All Environments
Certified to withstand humidity, heat, rain, marine environments, wind, hailstorms, and packed snow.

ENGINEERING DRAWINGS

Front Side Back

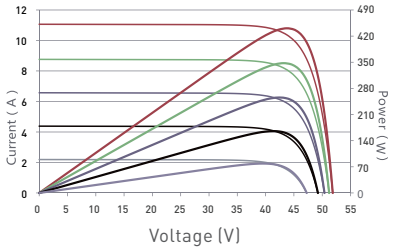




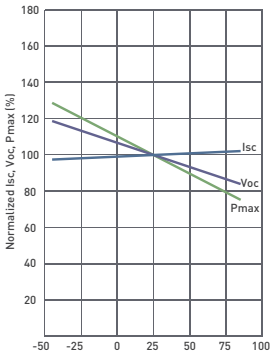
Length: ± 2mm
Width: ± 2mm
Height: ± 1mm
Row Pitch: ± 2mm

ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE

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



Temperature Dependence of Isc, Voc, Pmax



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±2°C
Refer. Bifacial Factor	70±5%

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)	478Wp	483Wp	488Wp	494Wp	499Wp
	Module Efficiency (%)	20.99%	21.23%	21.46%	21.69%	21.92%
15%	Maximum Power (Pmax)	523Wp	529Wp	535Wp	541Wp	546Wp
	Module Efficiency (%)	22.99%	23.25%	23.50%	23.75%	24.01%
25%	Maximum Power (Pmax)	569Wp	575Wp	581Wp	588Wp	594Wp
	Module Efficiency (%)	24.99%	25.27%	25.54%	25.82%	26.09%

ELECTRICAL CHARACTERISTICS

Module Type	JKM455M-7RL3-TV		JKM460M-7RL3-TV		JKM465M-7RL3-TV		JKM470M-7RL3-TV		JKM475M-7RL3-TV	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	455Wp	339Wp	460Wp	342Wp	465Wp	346Wp	470Wp	350Wp	475Wp	353Wp
Maximum Power Voltage (Vmp)	43.25V	39.73V	43.32V	39.84V	43.38V	39.95V	43.44V	40.05V	43.50V	40.11V
Maximum Power Current (Imp)	10.52A	8.52A	10.62A	8.59A	10.72A	8.66A	10.82A	8.73A	10.92A	8.81A
Open-circuit Voltage (Voc)	51.80V	48.89V	51.90V	48.99V	52.00V	49.08V	52.10V	49.18V	52.16V	49.23V
Short-circuit Current (Isc)	11.26A	9.09A	11.35A	9.17A	11.44A	9.24A	11.53A	9.31A	11.63A	9.39A
Module Efficiency STC (%)	20.00%		20.21%		20.43%		20.65%		20.87%	

***STC:** Irradiance 1000W/m² Cell Temperature 25°C AM = 1.5
NOCT: Irradiance 800W/m² Ambient Temperature 20°C AM = 1.5 Wind Speed 1m/s

*Power measurement tolerance: ±3%

The company reserves the final right to explain any of the information presented. JKM455-475M-7RL3-TV-A3-US