



THE MOST DEPENDABLE SOLAR BRAND

EAGLE 72HM G5

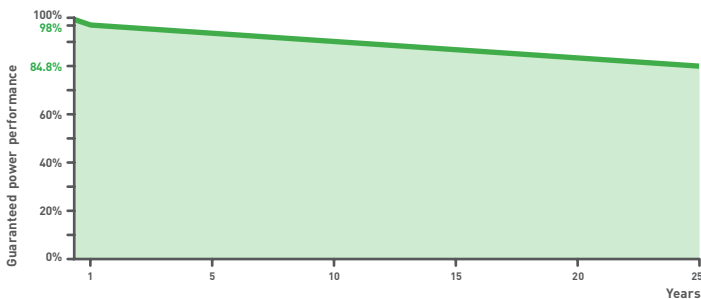
520-540 WATT • HALF CELL MODULE

Positive power tolerance of 0~+3%

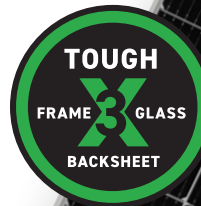
- NYSE-listed since 2010, Bloomberg Tier 1 manufacturer
- Best-selling module globally for last 4 years
- Top performance in the strictest 3rd party labs
- Automated manufacturing utilizing artificial intelligence
- Vertically integrated, tight controls on quality
- Premium solar panel factories in USA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

LINEAR PERFORMANCE WARRANTY

25-Year Performance Warranty



- ISO9001:2015 Quality Standards
- ISO14001:2015 Environmental Standards
- IEC61215, IEC61730 certified products
- ISO45001:2018 Occupational Health & Safety Standards
- UL61730 certified products



KEY FEATURES



Multi Busbar Half Cell Technology

High efficiency half cut solar cells deliver high power in a small footprint.



Thick and Tough

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



Shade Tolerant

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



Power Boost in Cloudy Conditions

A special film diffuses light, boosting performance even with shading by trees or debris.

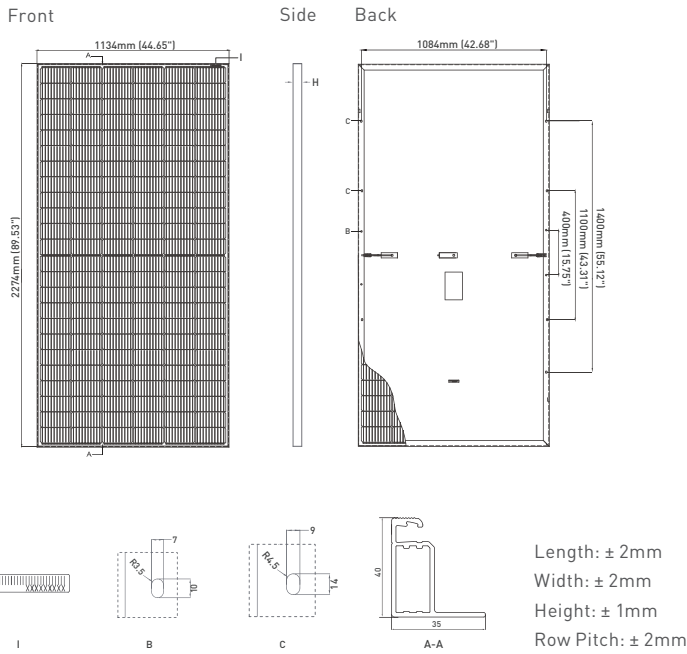


Protected Against All Environments

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



ENGINEERING DRAWINGS



MECHANICAL CHARACTERISTICS

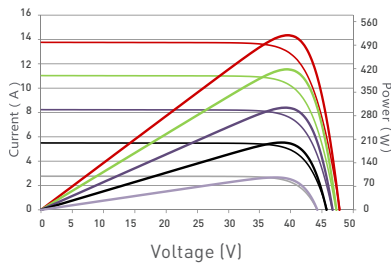
No. of Half Cells	144 (2x72)
Dimensions	2274x1134x40mm (89.53x44.65x1.57in)
Weight	29.4kg (64.82lbs)
Front Glass	3.2mm, Anti-Reflection Coating High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68 Rated
Output Cables	12 AWG, 1400mm (55.12in) or Customized Length
Fire Type	Type 1
Pressure Rating	5400Pa (Snow) & 2400Pa (Wind)
Hailstone Test	45mm Hailstones at 29m/s

TEMPERATURE CHARACTERISTICS

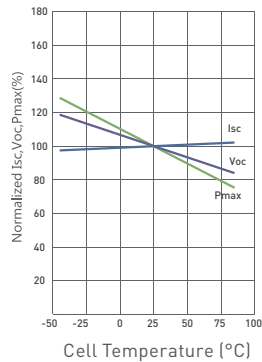
Temperature Coefficients of Pmax	-0.35%/°C
Temperature Coefficients of Voc	-0.28%/°C
Temperature Coefficients of Isc	0.048%/°C
Nominal Operating Cell Temperature (NOCT)	45 \pm 2°C

ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE

Current-Voltage & Power-Voltage Curves (520W)



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/pallets, 54pcs/stack, 540pcs/40' HQ Container

ELECTRICAL CHARACTERISTICS

Module Type	JKM520M-72HL4-V		JKM525M-72HL4-V		JKM530M-72HL4-V		JKM535M-72HL4-V		JKM540M-72HL4-V	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	520Wp	387Wp	525Wp	391Wp	530Wp	394Wp	535Wp	398Wp	540Wp	402Wp
Maximum Power Voltage (Vmp)	40.41V	37.52V	40.48V	37.67V	40.56V	37.84V	40.63V	37.91V	40.70V	38.08V
Maximum Power Current (Imp)	12.87A	10.31A	12.97A	10.37A	13.07A	10.42A	13.17A	10.50A	13.27A	10.55A
Open-circuit Voltage (Voc)	49.10V	46.34V	49.18V	46.42V	49.26V	46.50V	49.34V	46.57V	49.42V	46.65V
Short-circuit Current (Isc)	13.57A	10.96A	13.64A	11.02A	13.71A	11.07A	13.79A	11.14A	13.85A	11.19A
Module Efficiency STC (%)	20.17%		20.36%		20.55%		20.75%		20.94%	

*STC: ☀ Irradiance 1000W/m²
 NOCT: ☀ Irradiance 800W/m²

🌡 Cell Temperature 25°C
 🌡 Ambient Temperature 20°C

☁ AM = 1.5
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*Power measurement tolerance: $\pm 3\%$