EAGLE 72HM G3

385–405 WATT
BIFACIAL HALF CELL MONO PERC MODULE

Positive power tolerance of 0~+3%

- NYSE-listed since 2010, Bloomberg Tier 1 manufacturer
- Best-selling module globally for last 3 years
- Top performance in the strictest 3rd party labs
- 99.9% on-time delivery to the installer
- Automated manufacturing utilizing artificial intelligence
- Vertically integrated, tight controls on quality
- Premium solar panel factories in USA and Malaysia

KEY FEATURES

Diamond Half Cell Technology
World-record breaking mono PERC bifacial half cut solar cells deliver high power in a small footprint.

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

Transparent Backsheet
Easier installation and lower balance of system cost than dual glass solution.

Designed for Long Life
Uses the same DuPont protective film as the Space Station, Mars Lander, and jetliners. 30-year warranty.

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.

LINEAR PERFORMANCE WARRANTY

30-Year Performance Warranty

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EMGERGING DRAWINGS

Front

Side

Back

ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE

Current-Voltage & Power-Voltage Curves [405W]

Voltage (V)

Temperature Dependence of Isc, Voc, Pmax

Voltage (V) Normalized Isc, Voc, Pmax (%)

Cell Temperature (°C)

TEMPERATURE CHARACTERISTICS

Temperature Coefficients of Voc

-0.36%/°C

Maximum Power Current (Imp)

9.92A

Power Tolerance

±5% |

Nominal Operating Cell Temperature (NOCT)

45°C

Maximum Power Voltage (Vmp)

39.50V

Refer. Bifacial Temperature

70±5%

STC NOCT STC NOCT STC NOCT STC NOCT STC NOCT


Maximum Power Voltage (Vmp) 39.50V 36.88V 39.62V 37.22V 39.83V 37.55V 40.01V 37.64V 40.19V

Maximum Power Current (Imp) 9.76A 7.75A 9.84A 7.78A 9.92A 7.81A 10.00A 7.89A 10.08A 7.96A

Open-circuit Voltage (Voc) 48.10V 45.30V 48.14V 45.34V 48.26V 45.45V 48.35V 45.54V 48.45V 45.63V


Module Efficiency STC (%) 18.81% 19.05% 18.92% 19.54% 19.78%

MECHANICAL CHARACTERISTICS

Cells Mono PERC Diamond Cell (158.75 x 158.75mm)

No. of Half Cells 144 (2x72)

Dimensions 2031 x 1008 x 40mm (79.96 x 39.69 x 1.57"

Weight 23.3kg (51.3lbs)

Front Glass 3.2mm, Anti-Reflection Coating High Transmission, Low Iron, Tempered Glass

Frame Anodized Aluminum Alloy

Junction Box IP67 Rated

Output Cables 12 AWG, 1400mm (55.12"

Fire Type Type 1

Pressure Rating 5400Pa (Snow) & 2400Pa (Wind)

MAXIMUM RATINGS

Operating Temperature (°C) -40°C to +85°C

Maximum System Voltage 1500VDC (UL and IEC)

Maximum Series Fuse Rating 25A

PACKAGING CONFIGURATION

(Two pallets = One stack)

27pcs/pallet, 54pcs/stack, 594pcs/40’HQ Container

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

<table>
<thead>
<tr>
<th>Power (%)</th>
<th>Maximum Power (Pmax)</th>
<th>Module Efficiency (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5%</td>
<td>404Wp</td>
<td>19.75%</td>
</tr>
<tr>
<td>15%</td>
<td>443Wp</td>
<td>21.63%</td>
</tr>
<tr>
<td>25%</td>
<td>481Wp</td>
<td>23.51%</td>
</tr>
</tbody>
</table>

*STC: Irradiance 1000W/m²

NOCT: Irradiance 800W/m²

*Power measurement tolerance: ±3%

ELECTRICAL CHARACTERISTICS

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