



THE MOST DEPENDABLE SOLAR BRAND

EAGLE 72HM G3

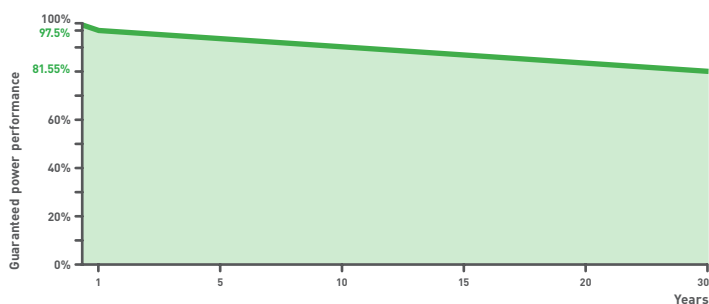
385-405 WATT
BIFACIAL HALF CELL MONO PERC MODULE

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
- Automated manufacturing utilizing artificial intelligence
- Vertically integrated, tight controls on quality
- Premium solar panel factories in USA and Malaysia

LINEAR PERFORMANCE WARRANTY

30-Year Performance Warranty



Nomenclature: JKM40SM-72HL-TV

| Code | Cell | Code | Cell | Code | Certification |
|------|------|------|---------|------|-----------------------|
| null | Full | null | Normal | T | Transparent backsheet |
| H | Half | L | Diamond | | |



- ISO9001:2008 Quality Standards
- ISO14001:2004 Environmental Standards
- IEC61215, IEC61730 certified products
- OHSAS18001 Occupational Health & Safety Standards
- UL1703/61730 certified products

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.



Light-Weight Design

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



Thick and Tough

Engineered with 40mm frame, 3.2mm front side glass, and Type 1 backsheet for added durability.



Shade Tolerant

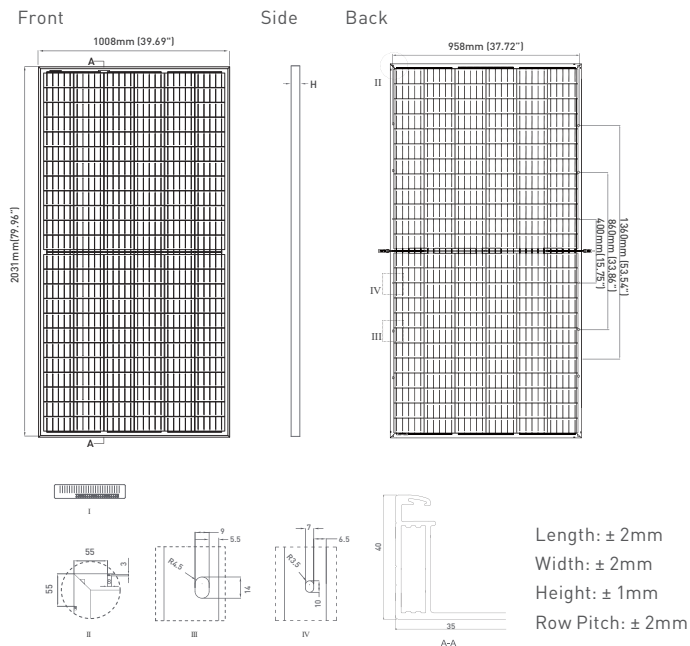
Twin array design allows continued performance even with shading by trees or debris.



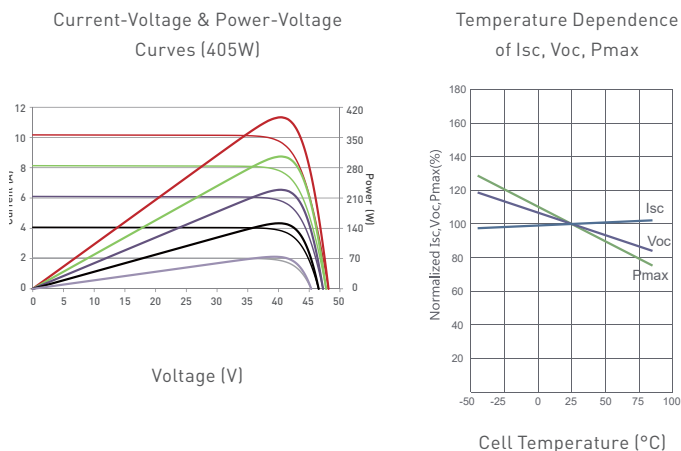
Protected Against All Environments

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

ENGINEERING DRAWINGS



ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE



MECHANICAL CHARACTERISTICS

| | |
|-------------------|---|
| Cells | Mono PERC Diamond Cell (158.75x158.75mm) |
| No. of Half Cells | 144 (2x72) |
| Dimensions | 2031x1008x40mm (79.96x39.69x1.57in) |
| 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 (55.12in) 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 P_{max} | -0.35%/°C |
| Temperature Coefficients of V_{oc} | -0.29%/°C |
| Temperature Coefficients of I_{sc} | 0.048%/°C |
| Nominal Operating Cell Temperature (NOCT) | 45 \pm 2°C |
| Refer. Bifacial Factor | 70 \pm 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, 594pcs/40'HQ Container

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

| | | | | | | |
|-----|-----------------------------|--------|--------|--------|--------|--------|
| 5% | Maximum Power (P_{max}) | 404Wp | 410Wp | 415Wp | 420Wp | 425Wp |
| | Module Efficiency (%) | 19.75% | 20.00% | 20.26% | 20.52% | 20.77% |
| 15% | Maximum Power (P_{max}) | 443Wp | 449Wp | 454Wp | 460Wp | 466Wp |
| | Module Efficiency (%) | 21.63% | 21.91% | 22.19% | 22.47% | 22.75% |
| 25% | Maximum Power (P_{max}) | 481Wp | 488Wp | 494Wp | 500Wp | 506Wp |
| | Module Efficiency (%) | 23.51% | 23.81% | 24.12% | 24.42% | 24.73% |

ELECTRICAL CHARACTERISTICS

| Module Type | JKM385M-72HL-TV | | JKM390M-72HL-TV | | JKM395M-72HL-TV | | JKM400M-72HL-TV | | JKM405M-72HL-TV | |
|------------------------------------|-----------------|--------|-----------------|--------|-----------------|--------|-----------------|--------|-----------------|--------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power (P_{max}) | 385Wp | 286Wp | 390Wp | 290Wp | 395Wp | 293Wp | 400Wp | 297Wp | 405Wp | 301Wp |
| Maximum Power Voltage (V_{mp}) | 39.50V | 36.88V | 39.62V | 37.22V | 39.83V | 37.55V | 40.01V | 37.64V | 40.19V | 37.77V |
| Maximum Power Current (I_{mp}) | 9.76A | 7.75A | 9.84A | 7.78A | 9.92A | 7.81A | 10.00A | 7.89A | 10.08A | 7.96A |
| Open-circuit Voltage (V_{oc}) | 48.10V | 45.30V | 48.14V | 45.34V | 48.26V | 45.45V | 48.35V | 45.54V | 48.45V | 45.63V |
| Short-circuit Current (I_{sc}) | 10.08A | 8.14A | 10.17A | 8.21A | 10.23A | 8.26A | 10.32A | 8.34A | 10.42A | 8.41A |
| Module Efficiency STC (%) | 18.81% | | 19.05% | | 19.29% | | 19.54% | | 19.78% | |

*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 for explanation on any of the information presented hereby. JKM385-405-72HL-TV-A4-US

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Jinko Solar