

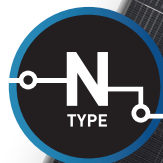


# THE MOST DEPENDABLE SOLAR PRODUCT

## EAGLE® G6B

580-600 WATT • N-TYPE BIFACIAL

Positive power tolerance of 0~+3%



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

### KEY FEATURES



#### N-Type Technology

N-type cells offer Jinko's in-house TOPCon technology with better performance and improved reliability.



#### Multi Busbar Half Cell Technology

Better light trapping and current collection to improve module power output and reliability.



#### Bifacial Power Gain

N-Type architecture increases bifaciality for higher backside bonus and better lifetime yield.



#### Low Temperature Coefficient

Best in class temperature coefficient for highest lifetime energy yield in all climates.



#### Industrial Grade Construction

Fire Type 29 with optimized dual-glass construction and aluminum frame for highest mechanical load resistance.



#### 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.



#### Warranty

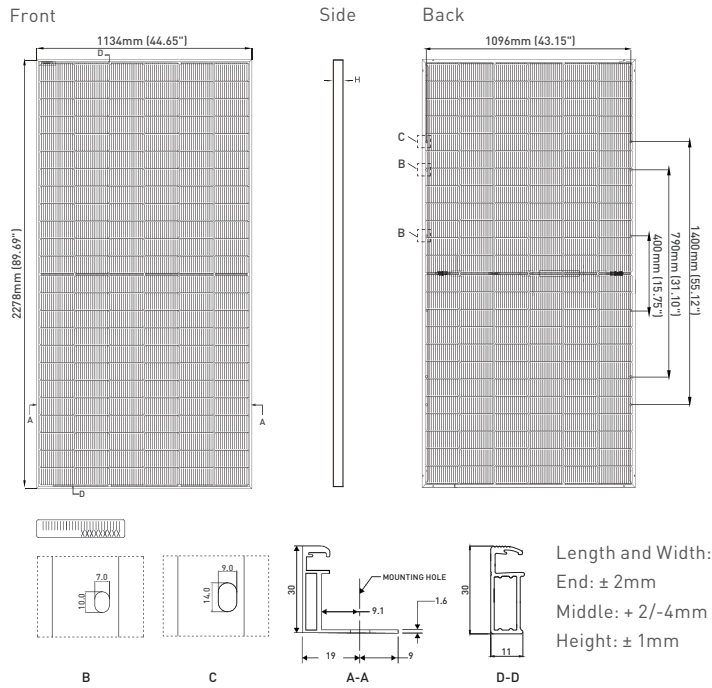
12-year product and 30-year linear power warranty.

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

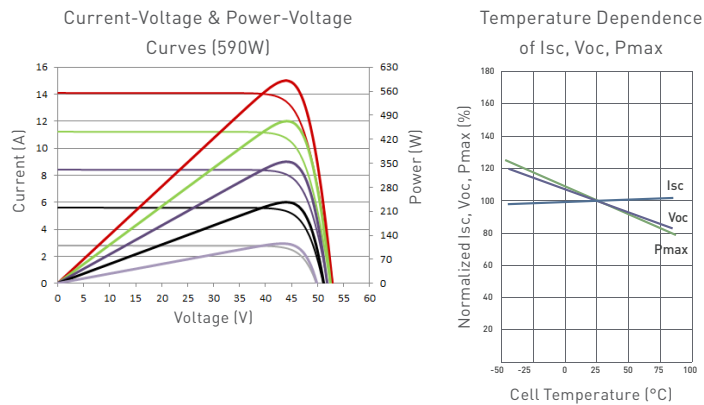
- ISO45001:2018 Occupational Health & Safety Standards
- UL61730 certified products



## ENGINEERING DRAWINGS



## ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE



## MECHANICAL CHARACTERISTICS

|                   |                                             |
|-------------------|---------------------------------------------|
| No. of Half Cells | 144 [2 x 72]                                |
| Dimensions        | 2278 x 1134 x 30mm [89.69 x 44.65 x 1.18in] |
| Weight            | 31kg [68.34lbs]                             |
| Front Glass       | 2.0mm, Anti-Reflection Coating              |
| Back Glass        | 2.0mm, Heat Strengthened Glass              |
| Frame             | Anodized Aluminum Alloy                     |
| Junction Box      | IP68 Rated                                  |
| Output Cables     | 12 AWG, 1400mm [55.12in]                    |
| Fire Type         | Type 29                                     |
| Pressure Rating   | 5400Pa [Snow] & 2400Pa [Wind]               |
| Hailstone Test    | 45mm Hailstone at 30.7m/s                   |

## TEMPERATURE CHARACTERISTICS

|                                           |              |
|-------------------------------------------|--------------|
| Temperature Coefficients of $P_{max}$     | -0.29%/°C    |
| Temperature Coefficients of $V_{oc}$      | -0.25%/°C    |
| Temperature Coefficients of $I_{sc}$      | 0.045%/°C    |
| Nominal Operating Cell Temperature (NOCT) | 45 $\pm$ 2°C |
| Bifacial Factor                           | 80 $\pm$ 5%  |

## MAXIMUM RATINGS

|                            |             |
|----------------------------|-------------|
| Operating Temperature (°C) | -40°C~+85°C |
| Maximum System Voltage     | 1500VDC     |
| Maximum Series Fuse Rating | 30A         |

## PACKAGING CONFIGURATION

|                                                    |
|----------------------------------------------------|
| (Two pallets = One stack)                          |
| 36pcs/pallets, 72pcs/stack, 576pcs/40 HQ Container |

## BIFACIAL OUTPUT-REARSIDE POWER GAIN

|     |                             |        |        |        |        |        |
|-----|-----------------------------|--------|--------|--------|--------|--------|
| 5%  | Maximum Power ( $P_{max}$ ) | 609Wp  | 614Wp  | 620Wp  | 625Wp  | 630Wp  |
|     | Module Efficiency (%)       | 23.57% | 23.78% | 23.98% | 24.18% | 24.39% |
| 15% | Maximum Power ( $P_{max}$ ) | 667Wp  | 672Wp  | 679Wp  | 684Wp  | 690Wp  |
|     | Module Efficiency (%)       | 25.82% | 26.05% | 26.27% | 26.49% | 26.71% |
| 25% | Maximum Power ( $P_{max}$ ) | 725Wp  | 731Wp  | 738Wp  | 744Wp  | 750Wp  |
|     | Module Efficiency (%)       | 28.06% | 28.31% | 28.55% | 28.79% | 29.03% |

## WARRANTY

12-year product and 30-year linear power warranty

1<sup>st</sup> year degradation not to exceed 1%, each subsequent year not to exceed 0.4%, minimum power at year 30 is 87.4% or greater.

## ELECTRICAL CHARACTERISTICS

| Module Type                        | JKM580N-72HL4-BDV |        | JKM585N-72HL4-BDV |        | JKM590N-72HL4-BDV |        | JKM595N-72HL4-BDV |        | JKM600N-72HL4-BDV |        |
|------------------------------------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|
|                                    | STC               | NOCT   | STC               | NOCT   | STC               | NOCT   | STC               | NOCT   | STC               | NOCT   |
| Maximum Power ( $P_{max}$ )        | 580Wp             | 437Wp  | 585Wp             | 441Wp  | 590Wp             | 445Wp  | 595Wp             | 448Wp  | 600Wp             | 452Wp  |
| Maximum Power Voltage ( $V_{mp}$ ) | 43.88V            | 40.89V | 44.02V            | 41.05V | 44.17V            | 41.21V | 44.31V            | 41.36V | 44.45V            | 41.52V |
| Maximum Power Current ( $I_{mp}$ ) | 13.22A            | 10.69A | 13.29A            | 10.74A | 13.36A            | 10.79A | 13.43A            | 10.84A | 13.50A            | 10.89A |
| Open-circuit Voltage ( $V_{oc}$ )  | 52.50V            | 49.87V | 52.70V            | 50.06V | 52.90V            | 50.25V | 53.10V            | 50.44V | 53.30V            | 50.63V |
| Short-circuit Current ( $I_{sc}$ ) | 13.95A            | 11.26A | 14.01A            | 11.31A | 14.07A            | 11.36A | 14.13A            | 11.41A | 14.19A            | 11.45A |
| Module Efficiency STC (%)          | 22.45%            |        | 22.65%            |        | 22.84%            |        | 23.03%            |        | 23.23%            |        |

\*STC: ☀ Irradiance 1000W/m<sup>2</sup>

NOCT: ☀ Irradiance 800W/m<sup>2</sup>

🌡 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. JKM580-600N-72HL4-BDV-F30R-F3-US

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