

# Tiger LM 72HC

## 435-455 Watt

### MONO-FACIAL MODULE

#### P-Type

Positive power tolerance of 0~+3%

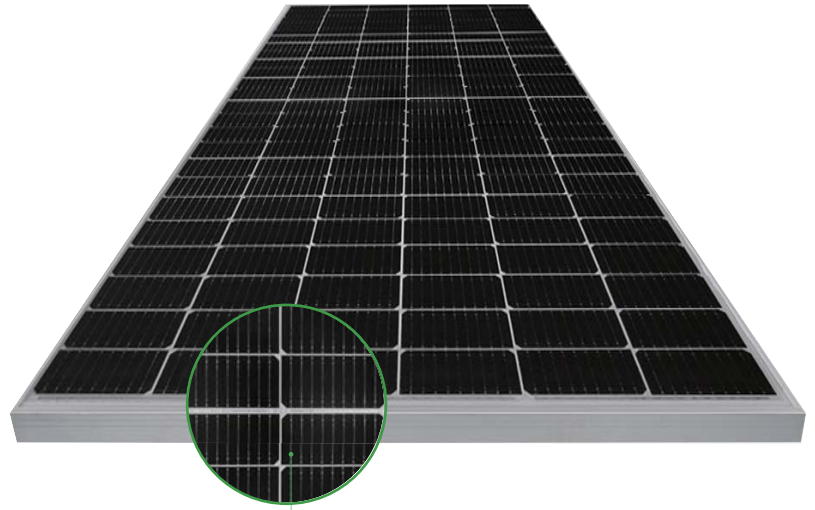
IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018

Occupational health and safety management systems



MBB HC Technology

## Key Features



#### Multi Busbar Technology

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



#### Reduced Hot Spot Loss

Optimized electrical design and lower operating current for reduced hot spot loss and better temperature coefficient.



#### PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



#### Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



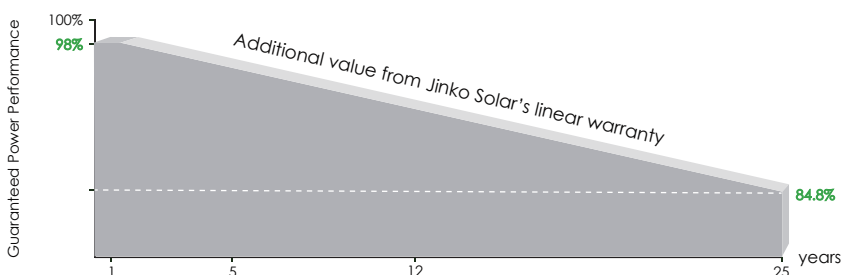
#### Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



POSITIVE QUALITY™  
Continuous Quality Assurance

## LINEAR PERFORMANCE WARRANTY



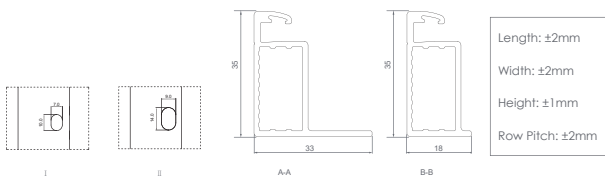
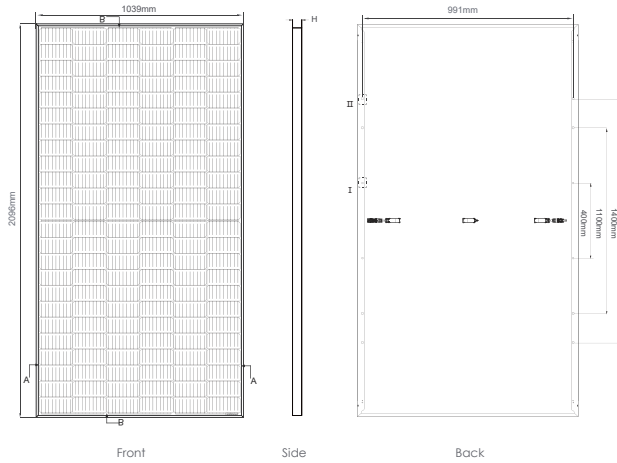
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**12** Year Product Warranty

**25** Year Linear Power Warranty

**0.55%** Annual Degradation Over 25 years

## Engineering Drawings

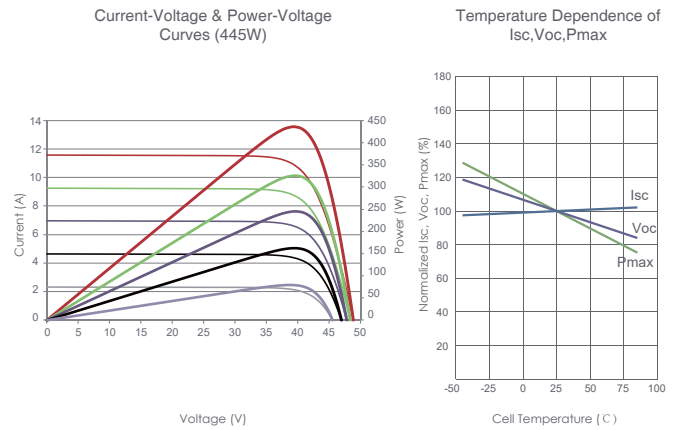


## Packaging Configuration

( Two pallets = One stack )

31 pcs/pallets, 62 pcs/stack, 682 pcs/40'HQ Container

## Electrical Performance & Temperature Dependence



## Mechanical Characteristics

|               |   |
|---------------|---|
| Cell Type     | Mono PERC 166×166mm   |
| No. of cells  | 144 (6×24)  |
| Dimensions    | 2096×1039×35mm (82.52×40.91×1.38 inch)                                      |
| Weight        | 25.1kg (55.34 lbs)  |
| Front Glass   | 3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass |
| Frame         | Anodized Aluminium Alloy  |
| Junction Box  | IP68 Rated  |
| Output Cables | TUV 1×4.0mm <sup>2</sup><br>(+): 290mm, (-): 145mm or Customized Length     |

## SPECIFICATIONS

| Module Type                               | JKM435M-72HLM      |        | JKM440M-72HLM |        | JKM445M-72HLM |        | JKM450M-72HLM |        | JKM455M-72HLM |        |
|---|--------------------|--------|---------------|--------|---------------|--------|---------------|--------|---------------|--------|
|   | STC                | NOCT   | STC           | NOCT   | STC           | NOCT   | STC           | NOCT   | STC           | NOCT   |
| Maximum Power (Pmax)                      | 435Wp              | 324Wp  | 440Wp         | 327Wp  | 445Wp         | 331Wp  | 450Wp         | 335Wp  | 455Wp         | 339Wp  |
| Maximum Power Voltage (Vmp)               | 40.77V             | 37.76V | 40.97V        | 37.89V | 41.17V        | 38.10V | 41.37V        | 38.31V | 41.56V        | 38.47V |
| Maximum Power Current (Imp)               | 10.67A             | 8.57A  | 10.74A        | 8.64A  | 10.81A        | 8.69A  | 10.88A        | 8.74A  | 10.95A        | 8.80A  |
| Open-circuit Voltage (Voc)                | 48.67V             | 45.84V | 48.87V        | 46.03V | 49.07V        | 46.22V | 49.27V        | 46.41V | 49.46V        | 46.59V |
| Short-circuit Current (Isc)               | 11.32A             | 9.14A  | 11.39A        | 9.20A  | 11.46A        | 9.26A  | 11.53A        | 9.31A  | 11.60A        | 9.37A  |
| Module Efficiency STC (%)                 | 19.97%             |        | 20.20%        |        | 20.43%        |        | 20.66%        |        | 20.89%        |        |
| Operating Temperature(°C)                 | -40 C ~+85 C       |        |               |        |               |        |               |        |               |        |
| Maximum System Voltage                    | 1000/1500VDC (IEC) |        |               |        |               |        |               |        |               |        |
| Maximum Series Fuse Rating                | 20A                |        |               |        |               |        |               |        |               |        |
| Power Tolerance                           | 0~+3%              |        |               |        |               |        |               |        |               |        |
| Temperature Coefficients of Pmax          | -0.35%/C           |        |               |        |               |        |               |        |               |        |
| Temperature Coefficients of Voc           | -0.29%/C           |        |               |        |               |        |               |        |               |        |
| Temperature Coefficients of Isc           | 0.048%/C           |        |               |        |               |        |               |        |               |        |
| Nominal Operating Cell Temperature (NOCT) | 45±2 C             |        |               |        |               |        |               |        |               |        |

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

Cell Temperature 25°C

AM=1.5

NOCT: Irradiance 800W/m<sup>2</sup>

Ambient Temperature 20°C

AM=1.5

Wind Speed 1m/s

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