

# Tiger Neo N-type 72HL4-BDV 560-580 Watt

BIFACIAL MODULE WITH  
DUAL GLASS

## N-Type

Positive power tolerance of 0~+3%

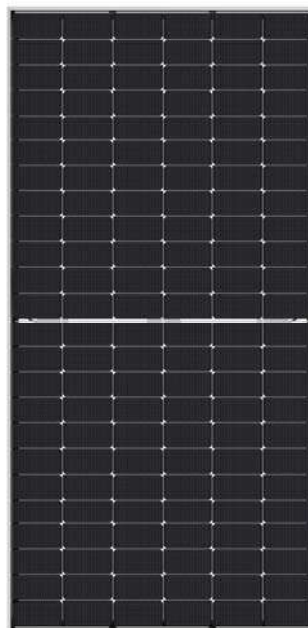
IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018

Occupational health and safety management systems



## Key Features



### SMBB Technology

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



### PID Resistance

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



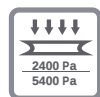
### Higher Power Output

Module power increases 5-25% generally, bringing significantly lower LCOE and higher IRR.



### Hot 2.0 Technology

The N-type module with Hot 2.0 technology has better reliability and lower LID/LETID.



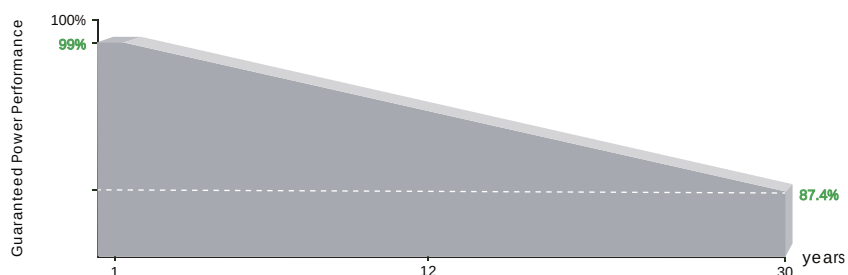
### Enhanced Mechanical Load

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



Continuous Quality Assurance

## LINEAR PERFORMANCE WARRANTY

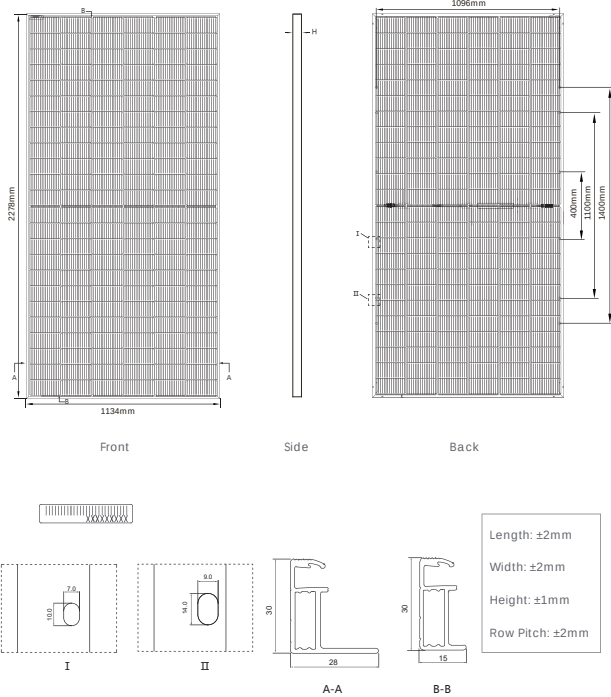


**12** Year Product Warranty

**30** Year Linear Power Warranty

**0.40%** Annual Degradation Over 30 years

## Engineering Drawings



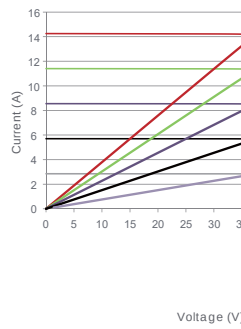
## Packaging Configuration

(Two pallets = One stack)

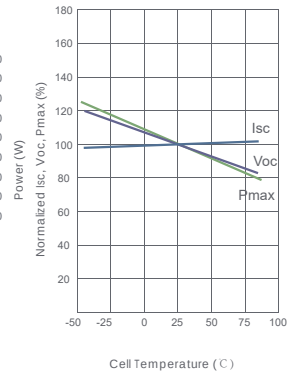
36pcs/pallets, 72pcs/stack, 720pcs/ 40'HQ Container

## Electrical Performance & Temperature Dependence

Current-Voltage & Power-Voltage Curves (570W)



Temperature Dependence of Isc, Voc, Pmax



## Mechanical Characteristics

|               |                                                                          |
|---------------|--------------------------------------------------------------------------|
| Cell Type     | N type Mono-crystalline                                                  |
| No. of cells  | 144 (2×72)                                                               |
| Dimensions    | 2278×1134×30mm (89.69×44.65×1.18 inch)                                   |
| Weight        | 32 kg (70.55 lbs)                                                        |
| Front Glass   | 2.0mm, Anti-Reflection Coating                                           |
| Back Glass    | 2.0mm, Heat Strengthened Glass                                           |
| Frame         | Anodized Aluminium Alloy                                                 |
| Junction Box  | IP68 Rated                                                               |
| Output Cables | TUV 1×4.0mm <sup>2</sup><br>(+): 400mm , (-): 200mm or Customized Length |

## SPECIFICATIONS

| Module Type                               | JKM560N-72HL4-BDV |        | JKM565N-72HL4-BDV |        | JKM570N-72HL4-BDV |        | JKM575N-72HL4-BDV |        | JKM580N-72HL4-BDV |        |
|-------------------------------------------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|
|                                           | STC               | NOCT   | STC               | NOCT   | STC               | NOCT   | STC               | NOCT   | STC               | NOCT   |
| Maximum Power (Pmax)                      | 560Wp             | 421Wp  | 565Wp             | 425Wp  | 570Wp             | 429Wp  | 575Wp             | 432Wp  | 580Wp             | 436Wp  |
| Maximum Power Voltage (Vmp)               | 41.95V            | 39.39V | 42.14V            | 39.52V | 42.29V            | 39.65V | 42.44V            | 39.78V | 42.59V            | 39.87V |
| Maximum Power Current (Imp)               | 13.35A            | 10.69A | 13.41A            | 10.75A | 13.48A            | 10.81A | 13.55A            | 10.87A | 13.62A            | 10.94A |
| Open-circuit Voltage (Voc)                | 50.67V            | 48.13V | 50.87V            | 48.32V | 51.07V            | 48.51V | 51.27V            | 48.70V | 51.47V            | 48.89V |
| Short-circuit Current (Isc)               | 14.13A            | 11.41A | 14.19A            | 11.46A | 14.25A            | 11.50A | 14.31A            | 11.55A | 14.37A            | 11.60A |
| Module Efficiency STC (%)                 | 21.68%            |        | 21.87%            |        | 22.07%            |        | 22.26%            |        | 22.45%            |        |
| Operating Temperature(°C)                 | -40°C~+85°C       |        |                   |        |                   |        |                   |        |                   |        |
| Maximum system voltage                    | 1500VDC (IEC)     |        |                   |        |                   |        |                   |        |                   |        |
| Maximum series fuse rating                | 30A               |        |                   |        |                   |        |                   |        |                   |        |
| Power tolerance                           | 0~+3%             |        |                   |        |                   |        |                   |        |                   |        |
| Temperature coefficients of Pmax          | -0.29%/°C         |        |                   |        |                   |        |                   |        |                   |        |
| Temperature coefficients of Voc           | -0.25%/°C         |        |                   |        |                   |        |                   |        |                   |        |
| Temperature coefficients of Isc           | 0.045%/°C         |        |                   |        |                   |        |                   |        |                   |        |
| Nominal operating cell temperature (NOCT) | 45±2°C            |        |                   |        |                   |        |                   |        |                   |        |
| Refer. Bifacial Factor                    | 80±5%             |        |                   |        |                   |        |                   |        |                   |        |

## BIFACIAL OUTPUT-REAR SIDE POWER GAIN

|     |                           |        |        |        |        |        |
|-----|---------------------------|--------|--------|--------|--------|--------|
| 5%  | Maximum Power (Pmax)      | 588Wp  | 593Wp  | 599Wp  | 604Wp  | 609Wp  |
|     | Module Efficiency STC (%) | 22.77% | 22.97% | 23.17% | 23.37% | 23.57% |
| 15% | Maximum Power (Pmax)      | 644Wp  | 650Wp  | 656Wp  | 661Wp  | 667Wp  |
|     | Module Efficiency STC (%) | 24.93% | 25.15% | 25.37% | 25.60% | 25.82% |
| 25% | Maximum Power (Pmax)      | 700Wp  | 706Wp  | 713Wp  | 719Wp  | 725Wp  |
|     | Module Efficiency STC (%) | 27.10% | 27.34% | 27.58% | 27.82% | 28.07% |

\*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