

# Tiger Neo N-type

## 54HL4R-B

### 420-440 Watt

#### ALL-BLACK MODULE

#### N-Type

IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018

Occupational health and safety management systems

(Made in China)

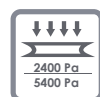


## Key Features



#### SMBB Technology

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

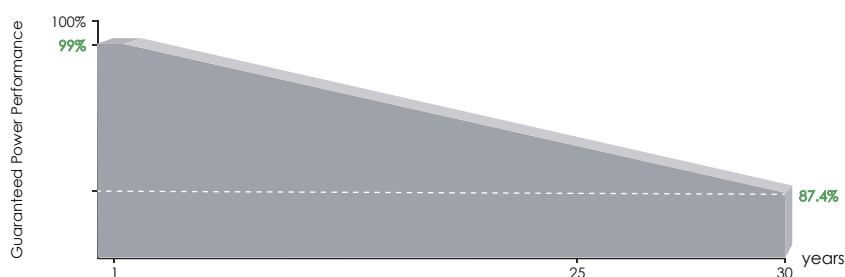


#### Enhanced Mechanical Load

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



## LINEAR PERFORMANCE WARRANTY



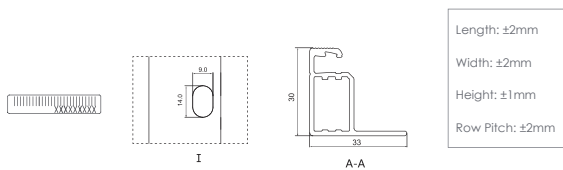
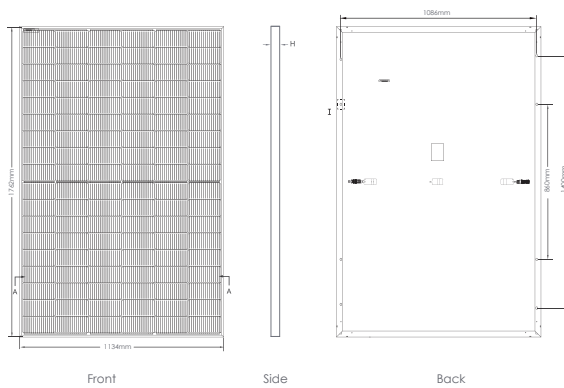
**25\*** Year Product Warranty

**30** Year Linear Power Warranty

**0.40%** Annual Degradation Over 30 years

\*The product warranty is only applicable in Australia.

## Engineering Drawings



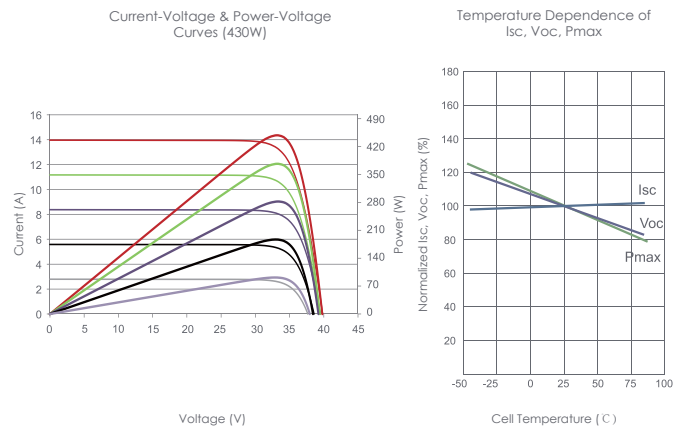
\*This tolerance range applies only to the four-angle distance of the module as indicated above.

## Packaging Configuration

(Two pallets = One stack)

36pcs/pallets, 72pcs/stack, 936pcs/ 40'HQ Container

## Electrical Performance & Temperature Dependence



## Mechanical Characteristics

Cell Type N type Mono-crystalline

No. of cells 108 (6×18)

Dimensions 1762×1134×30mm (69.36×44.65×1.18 inch)

Weight 22 kg (48.50 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>  
 (+): 400mm, (-): 200mm or Customized Length

Connector 1000V: Staubli MC4; JK03M/1B, JK03M2/1B, Jinko PV material  
 Type 1500V: Staubli MC4-EVO2; JK03M/2B, JK03M2/2B, Jinko PV material

Fire Class Class C

## SPECIFICATIONS

| Module Type                               | JKM420N-54HL4R-B                             |        | JKM425N-54HL4R-B |        | JKM430N-54HL4R-B |        | JKM435N-54HL4R-B |        | JKM440N-54HL4R-B |        |
|-------------------------------------------|----------------------------------------------|--------|------------------|--------|------------------|--------|------------------|--------|------------------|--------|
|                                           | STC                                          | NOCT   | STC              | NOCT   | STC              | NOCT   | STC              | NOCT   | STC              | NOCT   |
| Maximum Power (Pmax)                      | 420Wp                                        | 316Wp  | 425Wp            | 320Wp  | 430Wp            | 323Wp  | 435Wp            | 327Wp  | 440Wp            | 331Wp  |
| Maximum Power Voltage (Vmp)               | 32.16V                                       | 29.95V | 32.37V           | 30.19V | 32.58V           | 30.30V | 32.78V           | 30.50V | 32.99V           | 30.73V |
| Maximum Power Current (Imp)               | 13.06A                                       | 10.55A | 13.13A           | 10.60A | 13.20A           | 10.66A | 13.27V           | 10.72A | 13.34A           | 10.77A |
| Open-circuit Voltage (Voc)                | 38.74V                                       | 36.80V | 38.95V           | 37.00V | 39.16V           | 37.20V | 39.36V           | 37.39V | 39.57V           | 37.59V |
| Short-circuit Current (Isc)               | 13.51A                                       | 10.91A | 13.58A           | 10.96A | 13.65A           | 11.02A | 13.72A           | 11.08A | 13.80A           | 11.14A |
| Module Efficiency STC (%)                 | 21.02%                                       |        | 21.27%           |        | 21.52%           |        | 21.77%           |        | 22.02%           |        |
| Operating Temperature(°C)                 | -40°C~+85°C                                  |        |                  |        |                  |        |                  |        |                  |        |
| Maximum system voltage                    | 1000VDC(IEC) with -V=1500V, without -V=1000V |        |                  |        |                  |        |                  |        |                  |        |
| Maximum series fuse rating                | 25A                                          |        |                  |        |                  |        |                  |        |                  |        |
| Power measurement tolerance               | ±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                                       |        |                  |        |                  |        |                  |        |                  |        |

\*STC: Irradiance 1000W/m<sup>2</sup> Cell Temperature 25°C

NOCT: Irradiance 800W/m<sup>2</sup> Ambient Temperature 20°C

AM=1.5

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Wind Speed 1m/s