

# Tiger Neo N-type 60HL4-(V) 460-480 Watt MONO-FACIAL MODULE

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.



### Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



### Hot 2.0 Technology

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

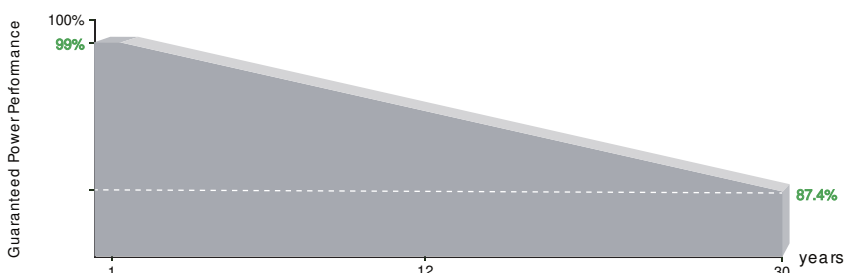


### Enhanced Mechanical Load

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



## LINEAR PERFORMANCE WARRANTY

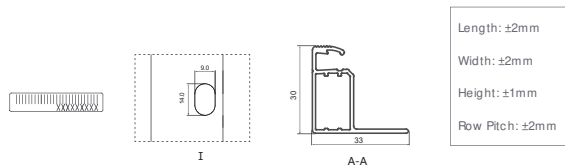
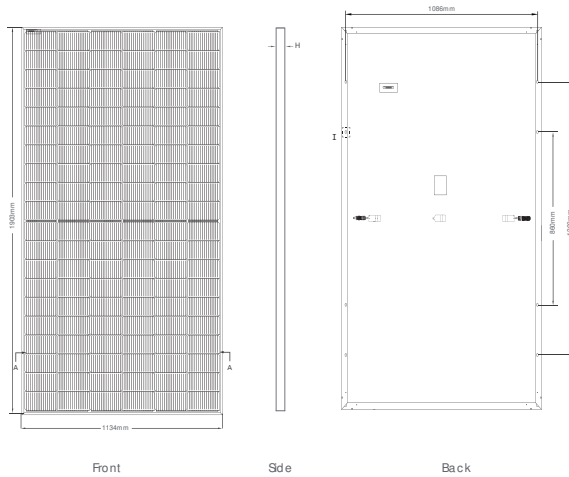


12 Year Product Warranty

30 Year Linear Power Warranty

0.40% Annual Degradation Over 30 years

## Engineering Drawings

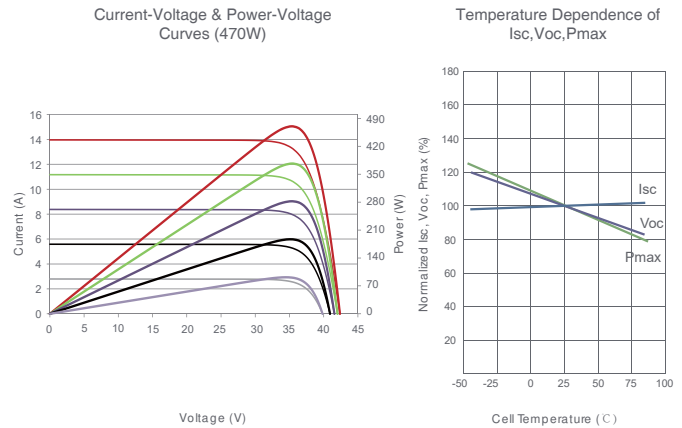


## Packaging Configuration

( Two pallets = One stack )

36pcs/pallets, 72pcs/stack, 864pcs/ 40'HQ Container

## Electrical Performance & Temperature Dependence



## Mechanical Characteristics

|               |   |
|---------------|---|
| Cell Type     | N type Mono-crystalline   |
| No. of cells  | 120 (6×20)  |
| Dimensions    | 1903×1134×30mm (74.92×44.65×1.18 inch)                                      |
| Weight        | 24.2 kg (53.35 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>(+): 400mm, (-): 200mm or Customized Length     |

## SPECIFICATIONS

| Module Type                               | JKM460N-60HL4       |        | JKM465N-60HL4 |        | JKM470N-60HL4 |        | JKM475N-60HL4 |        | JKM480N-60HL4 |        |
|---|---------------------|--------|---------------|--------|---------------|--------|---------------|--------|---------------|--------|
|   | STC                 | NOCT   | STC           | NOCT   | STC           | NOCT   | STC           | NOCT   | STC           | NOCT   |
| Maximum Power (Pmax)                      | 460Wp               | 346Wp  | 465Wp         | 350Wp  | 470Wp         | 353Wp  | 475Wp         | 357Wp  | 480Wp         | 361Wp  |
| Maximum Power Voltage (Vmp)               | 34.72V              | 32.60V | 34.89V        | 32.77V | 35.05V        | 32.94V | 35.21V        | 33.10V | 35.38V        | 33.27V |
| Maximum Power Current (Imp)               | 13.25A              | 10.61A | 13.33A        | 10.67A | 13.41A        | 10.73A | 13.49A        | 10.79A | 13.57A        | 10.85A |
| Open-circuit Voltage (Voc)                | 42.05V              | 39.94V | 42.22V        | 40.10V | 42.38V        | 40.25V | 42.54V        | 40.41V | 42.71V        | 40.57V |
| Short-circuit Current (Isc)               | 13.99A              | 11.29A | 14.07A        | 11.36A | 14.15A        | 11.42A | 14.23A        | 11.49A | 14.31A        | 11.55A |
| Module Efficiency STC (%)                 | 21.32%              |        | 21.55%        |        | 21.78%        |        | 22.01%        |        | 22.24%        |        |
| Operating Temperature(°C)                 | -40°C~+85°C         |        |               |        |               |        |               |        |               |        |
| Maximum system voltage                    | 1000/ 1500VDC (IEC) |        |               |        |               |        |               |        |               |        |
| Maximum series fuse rating                | 25A                 |        |               |        |               |        |               |        |               |        |
| Power tolerance                           | 0~+3%               |        |               |        |               |        |               |        |               |        |
| Temperature coefficients of Pmax          | -0.30%/°C           |        |               |        |               |        |               |        |               |        |
| Temperature coefficients of Voc           | -0.25%/°C           |        |               |        |               |        |               |        |               |        |
| Temperature coefficients of Isc           | 0.046%/°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