

# Tiger Neo N-type 78HL4-(V) 595-615 Watt MONO-FACIAL MODULE

## N-Type

Positive power tolerance of 0~+3%

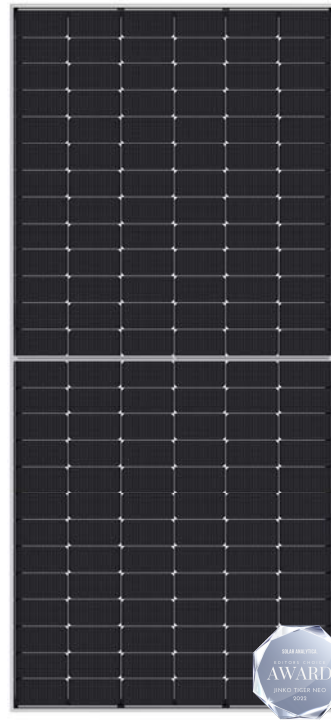
IEC61215(2016), IEC61730(2016)

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.

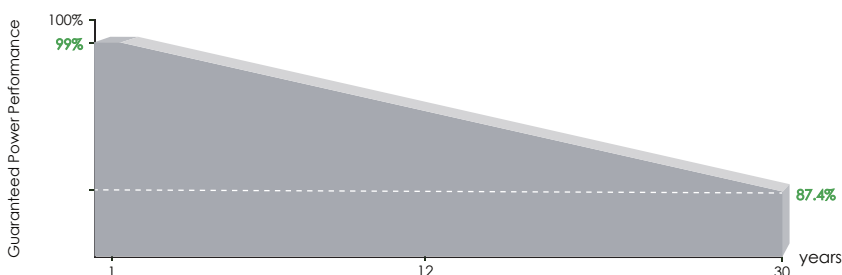


### Enhanced Mechanical Load

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



## LINEAR PERFORMANCE WARRANTY



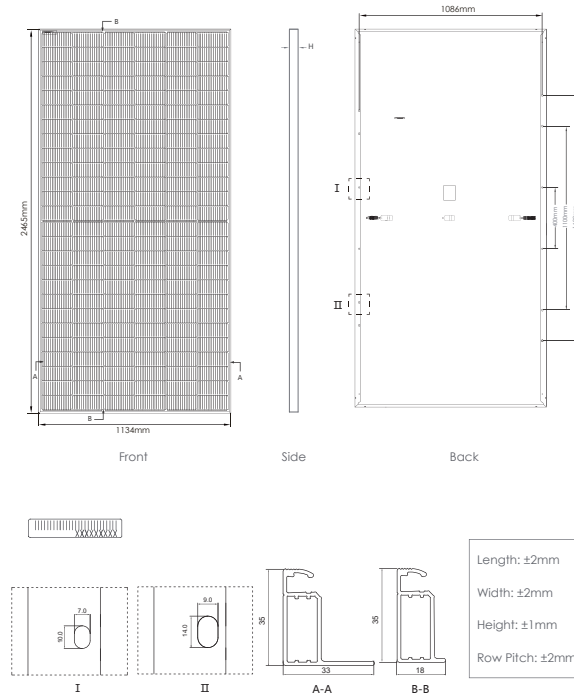
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**12** Year Product Warranty

**30** Year Linear Power Warranty

**0.40%** Annual Degradation Over 30 years

## Engineering Drawings

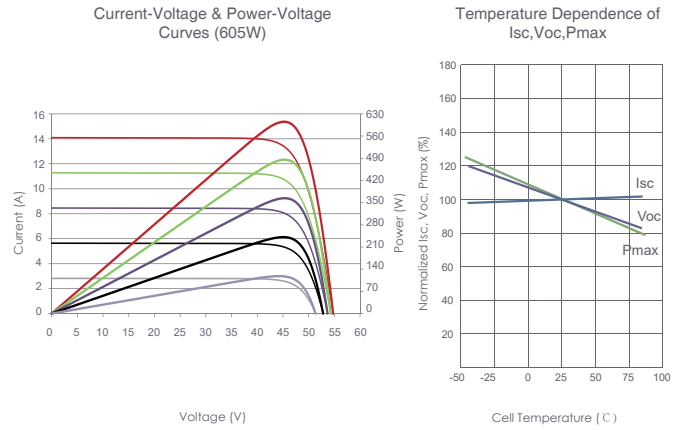


## Packaging Configuration

( Two pallets = One stack )

31 pcs/pallets, 62 pcs/stack, 496 pcs/ 40'HQ Container

## Electrical Performance & Temperature Dependence



## Mechanical Characteristics

|               |   |
|---------------|---|
| Cell Type     | N type Mono-crystalline   |
| No. of cells  | 156 (2×78)  |
| Dimensions    | 2465×1134×35mm (97.05×44.65×1.38 inch)                                      |
| Weight        | 30.6 kg (67.46 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                               | JKM595N-78HL4      |                 | JKM600N-78HL4   |                 | JKM605N-78HL4   |                 | JKM610N-78HL4   |                 | JKM615N-78HL4   |                 |
|---|--------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|   | JKM595N-78HL4-V    | JKM595N-78HL4-V | JKM600N-78HL4-V | JKM600N-78HL4-V | JKM605N-78HL4-V | JKM605N-78HL4-V | JKM610N-78HL4-V | JKM610N-78HL4-V | JKM615N-78HL4-V | JKM615N-78HL4-V |
|   | STC                | NOCT            | STC             | NOCT            | STC             | NOCT            | STC             | NOCT            | STC             | NOCT            |
| Maximum Power (Pmax)                      | 595Wp              | 447Wp           | 600Wp           | 451Wp           | 605Wp           | 455Wp           | 610Wp           | 459Wp           | 615Wp           | 462Wp           |
| Maximum Power Voltage (Vmp)               | 45.29V             | 41.93V          | 45.39V          | 42.05V          | 45.49V          | 42.16V          | 45.59V          | 42.28V          | 45.69V          | 42.39V          |
| Maximum Power Current (Imp)               | 13.14A             | 10.67A          | 13.22A          | 10.73A          | 13.30A          | 10.79A          | 13.38A          | 10.85A          | 13.46A          | 10.91A          |
| Open-circuit Voltage (Voc)                | 54.80V             | 52.05V          | 54.95V          | 52.20V          | 55.10V          | 52.34V          | 55.25V          | 52.48V          | 55.40V          | 52.62V          |
| Short-circuit Current (Isc)               | 13.90A             | 11.22A          | 13.97A          | 11.28A          | 14.04A          | 11.34A          | 14.11A          | 11.39A          | 14.18A          | 11.45A          |
| Module Efficiency STC (%)                 | 21.29%             |                 | 21.46%          |                 | 21.64%          |                 | 21.82%          |                 | 22.00%          |                 |
| Operating Temperature(°C)                 | -40°C~+85°C        |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Maximum system voltage                    | 1000/1500VDC (IEC) |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Maximum series fuse rating                | 30A                |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| 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

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Specifications included in this datasheet are subject to change without notice.

JKM595-615N-78HL4-(V)-F1-EN (IEC 2016)