

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

N-Type

Positive power tolerance of 0~+3%

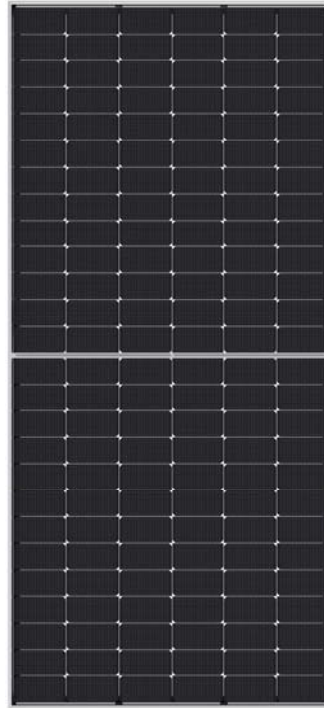
IEC61215(2016), IEC61730(2016)

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.

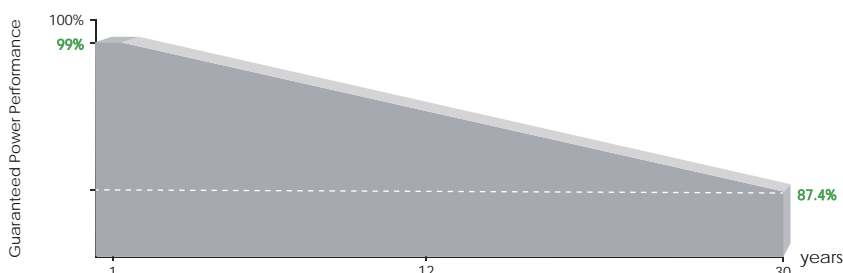


Enhanced Mechanical Load

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



LINEAR PERFORMANCE WARRANTY

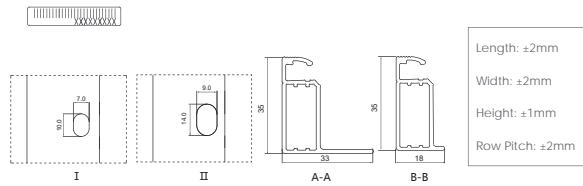
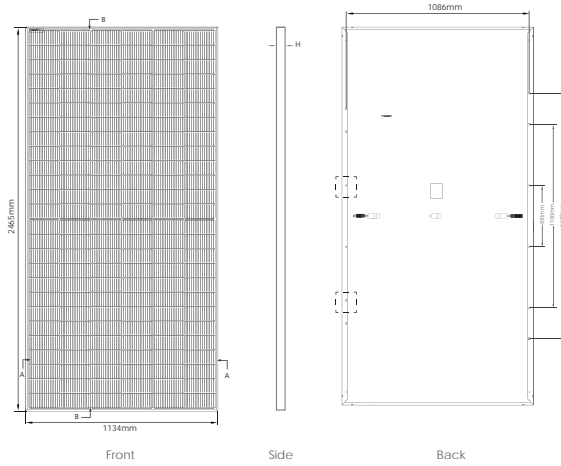


12 Year Product Warranty

30 Year Linear Power Warranty

0.40% Annual Degradation Over 30 years

Engineering Drawings

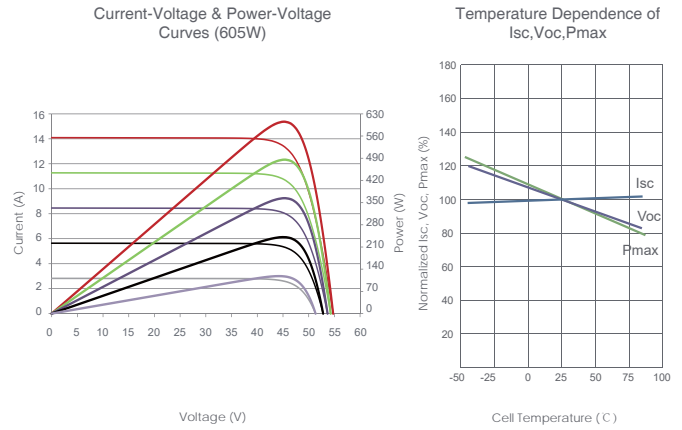


Packaging Configuration

(Two pallets = One stack)

31pcs/pallets, 62pcs/stack, 496pcs/ 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 ² (+): 400mm, (-): 200mm or Customized Length |

SPECIFICATIONS

| Module Type | JKM595N-78HL4 | | JKM600N-78HL4 | | JKM605N-78HL4 | | JKM610N-78HL4 | | JKM615N-78HL4 | |
|---|--------------------|--------|---------------|--------|---------------|--------|---------------|--------|---------------|--------|
| | 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/m²

Cell Temperature 25°C

AM=1.5

NOCT: Irradiance 800W/m²

Ambient Temperature 20°C

AM=1.5

Wind Speed 1m/s