

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

N-Type

Positive power tolerance of 0~+3%

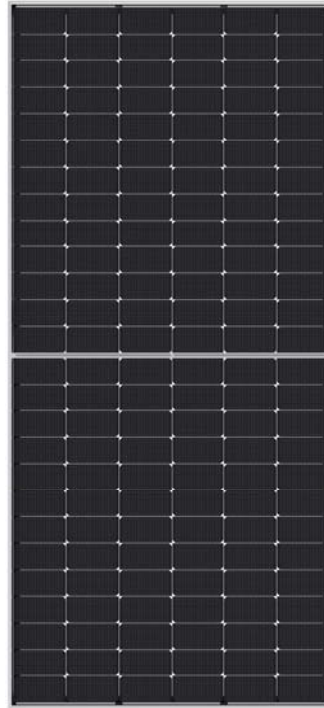
IEC 61215(2016), IEC 61730(2016)

ISO 9001:2015: Quality Management System

ISO 14001:2015: Environment Management System

ISO 45001:2018

Occupational health and safety management systems



Key Features



SMBB Technology

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



Hot 2.0 Technology

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



PID Resistance

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



Enhanced Mechanical Load

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

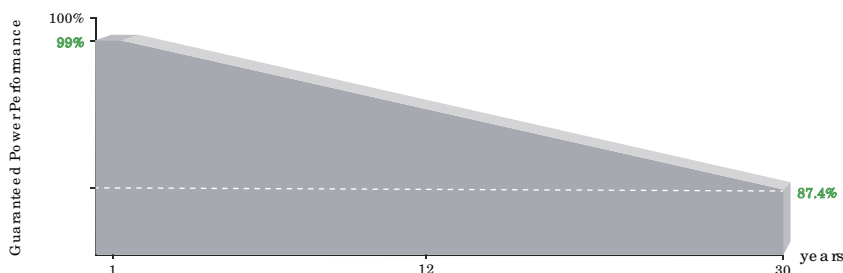


Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



LINEAR PERFORMANCE WARRANTY

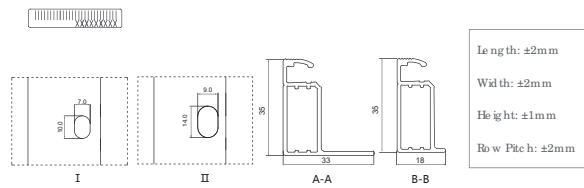
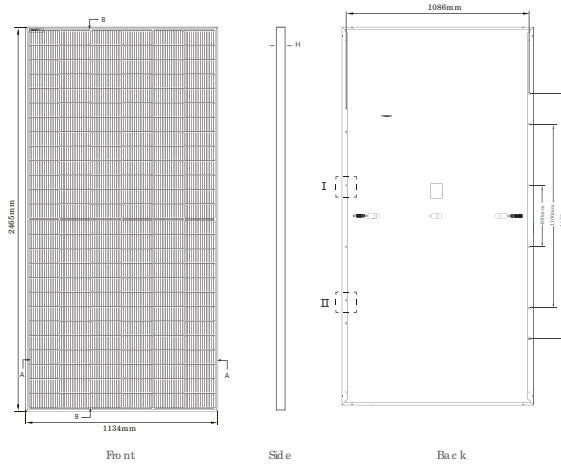


12 Year Product Warranty

30 Year Linear Power Warranty

0.40% Annual Degradation Over 30 years

Engineering Drawings

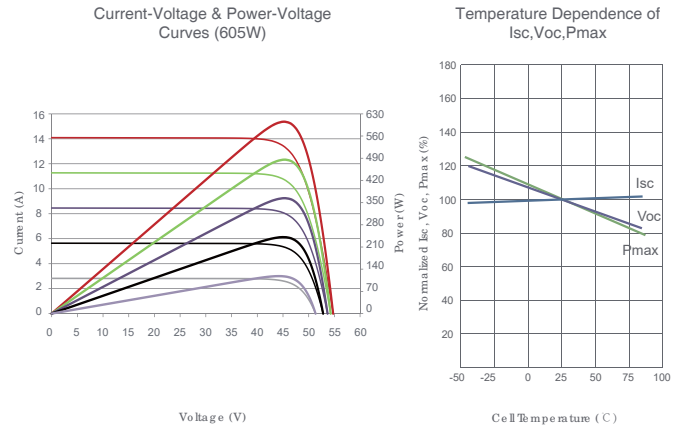


Packaging Configuration

(Two pallets = One stack)

31pc s/pallets, 62pc s/stack, 496pc s/ 40'HQ Container

Electric Performance & Temperature Dependence



Mechanical Characteristics

| | |
|---------------|---|
| Cell Type | N type Mono-crystalline |
| No. of cells | 156 (2x78) |
| Dimensions | 2465x1134x35mm (97.05x44.65x1.38 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 1x4.0mm' (+): 400mm, (-): 200mm or Customized Length |

SPECIFICATIONS

| Module Type | JKM595N-78HL4 | | JKM600N-78HL4 | | JKM605N-78HL4 | | JKM610N-78HL4 | | JKM615N-78HL4 | |
|---|--------------------|--------|-----------------|--------|-----------------|--------|-----------------|--------|-----------------|--------|
| | JKM595N-78HL4-V | | JKM600N-78HL4-V | | JKM605N-78HL4-V | | JKM610N-78HL4-V | | JKM615N-78HL4-V | |
| | SIC | NOCT | SIC | NOCT | SIC | NOCT | SIC | NOCT | SIC | 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 SIC (%) | 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 | | | | | | | | | |
| Minimal operating cell temperature (NOCT) | 45±2°C | | | | | | | | | |

*SIC: 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