

Tiger Neo N-type 54HL4-B 400-420 Watt ALL-BLACK MODULE

N-Type

Positive power tolerance of 0~+3%

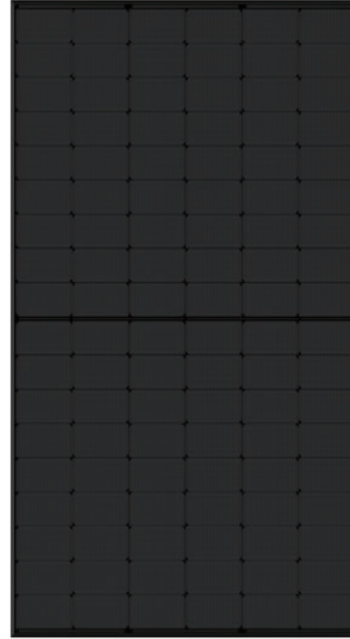
IEC61215(2016), IEC61730(2016)

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.

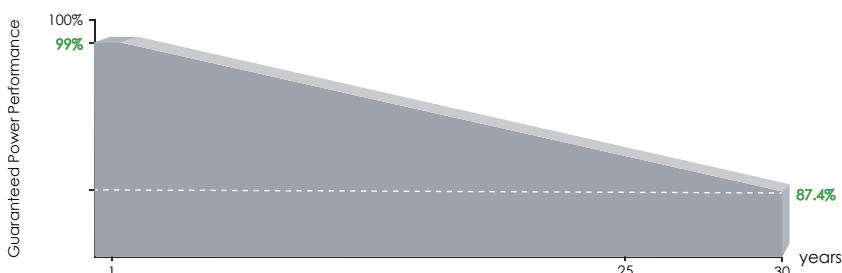


Enhanced Mechanical Load

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



LINEAR PERFORMANCE WARRANTY

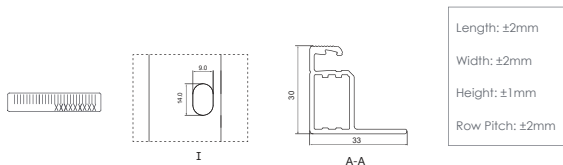
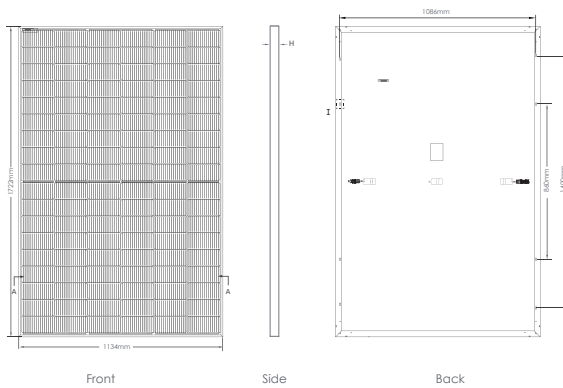


25 Year Product Warranty

30 Year Linear Power Warranty

0.40% Annual Degradation Over 30 years

Engineering Drawings



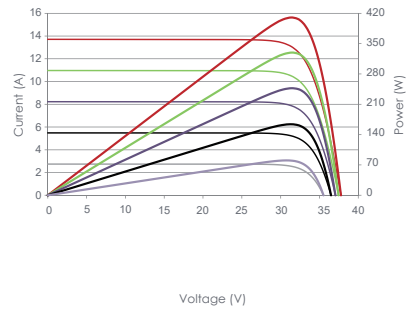
Packaging Configuration

(Two pallets = One stack)

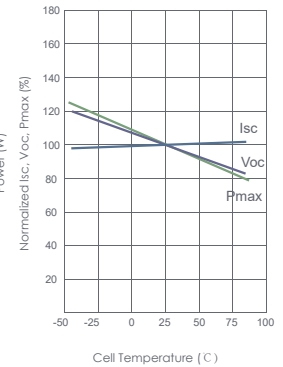
36pcs/pallets, 72pcs/stack, 936pcs/ 40'HQ Container

Electrical Performance & Temperature Dependence

Current-Voltage & Power-Voltage Curves (415W)



Temperature Dependence of Isc, Voc, Pmax



Mechanical Characteristics

| | |
|---------------|-----------------------------------------------------------------------------|
| Cell Type | N type Mono-crystalline |
| No. of cells | 108 (6×18) |
| Dimensions | 1722×1134×30mm (67.79×44.65×1.18 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 ² (+): 400mm, (-): 200mm or Customized Length |

SPECIFICATIONS

| Module Type | JKM400N-54HL4-B | | JKM405N-54HL4-B | | JKM410N-54HL4-B | | JKM415N-54HL4-B | | JKM420N-54HL4-B | |
|-------------------------------------------|-----------------|--------|-----------------|--------|-----------------|--------|-----------------|--------|-----------------|--------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power (Pmax) | 400Wp | 301 Wp | 405Wp | 305Wp | 410Wp | 308Wp | 415Wp | 312Wp | 420Wp | 316Wp |
| Maximum Power Voltage (Vmp) | 31.28V | 28.89V | 31.47V | 29.08V | 31.66V | 29.59V | 31.85V | 29.78V | 32.04V | 29.97V |
| Maximum Power Current (Imp) | 12.79A | 10.30A | 12.87A | 10.36A | 12.95A | 10.42A | 13.03V | 10.48A | 13.11A | 10.54A |
| Open-circuit Voltage (Voc) | 37.38V | 35.50V | 37.58V | 35.69V | 37.77V | 35.88V | 37.96V | 36.06V | 38.15V | 36.24V |
| Short-circuit Current (Isc) | 13.55A | 10.94A | 13.62A | 11.00A | 13.68A | 11.04A | 13.74A | 11.09A | 13.80A | 11.14A |
| Module Efficiency STC (%) | 20.48% | | 20.74% | | 21.00% | | 21.25% | | 21.51% | |
| Operating Temperature(°C) | -40°C~+85°C | | | | | | | | | |
| Maximum system voltage | 1000VDC (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/m² Cell Temperature 25°C AM=1.5
 NOCT: Irradiance 800W/m² Ambient Temperature 20°C AM=1.5 Wind Speed 1m/s