

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

N-Type

Positive power tolerance of 0~+3%

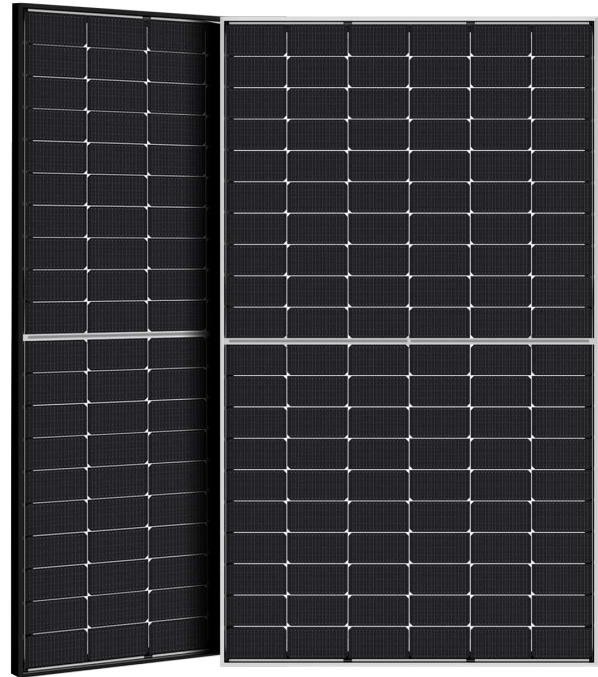
IEC61215(2016), IEC61730(2016)

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.

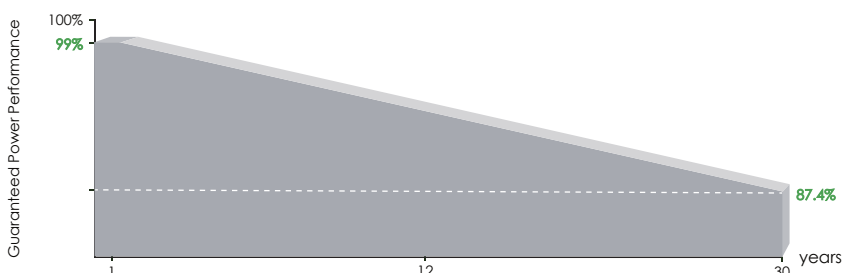


Enhanced Mechanical Load

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



LINEAR PERFORMANCE WARRANTY

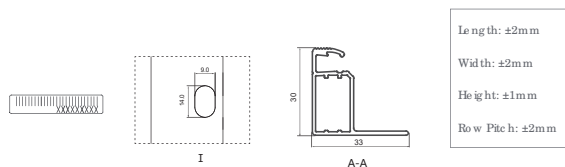
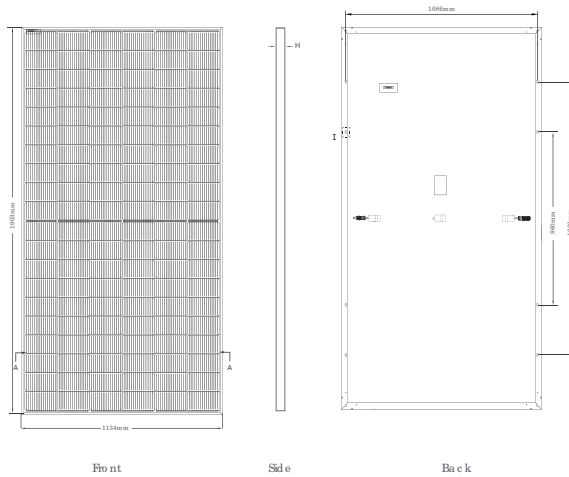


12 Year Product Warranty

30 Year Linear Power Warranty

0.40% Annual Degradation Over 30 years

Engineering Drawings



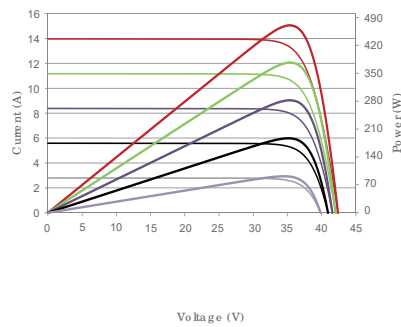
Packaging Configuration

(Two pallets = One stack)

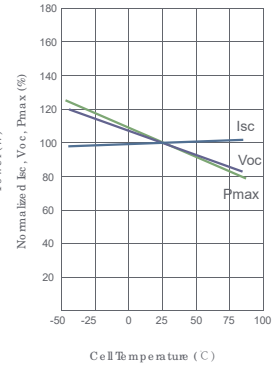
36pcs/pallets, 72pcs/stack, 864pcs/40'HQ Container

Electric Performance & Temperature Dependence

Current-Voltage & Power-Voltage Curves (470W)



Temperature Dependence of Isc, Voc, Pmax



Mechanical Characteristics

| | |
|---------------|--|
| Cell Type | N type Mono-crystalline |
| No. of cells | 120 (6x20) |
| Dimensions | 1903x1134x30mm (74.92x44.65x1.18 inch) |
| Weight | 24.2 kg (53.35 lbs) |
| Front Glass | 3.2mm, Anti-Reflection Coating, High Transmittance, Low Iron, Tempered Glass |
| Frame | Anodized Aluminium Alloy |
| Junction Box | IP68 Rated |
| Output Cables | TUV 1x4.0mm ² (+): 400mm, (-): 200mm or Customized Length |

SPECIFICATIONS

| Module Type | JKM460N-60HL4 | | JKM465N-60HL4 | | JKM470N-60HL4 | | JKM475N-60HL4 | | JKM480N-60HL4 | |
|---|--------------------|--------|-----------------|--------|-----------------|--------|-----------------|--------|-----------------|--------|
| | JKM460N-60HL4-V | | JKM465N-60HL4-V | | JKM470N-60HL4-V | | JKM475N-60HL4-V | | JKM480N-60HL4-V | |
| | SIC | NOCT | SIC | NOCT | SIC | NOCT | SIC | NOCT | SIC | 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 SIC (%) | 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 | | | | | | | | | |

*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