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Building Your Trust in Solar

# Tiger Neo N-type 54HL4R-B

## *445 Watt*

ALL-BLACK MODULE

**N-Type**

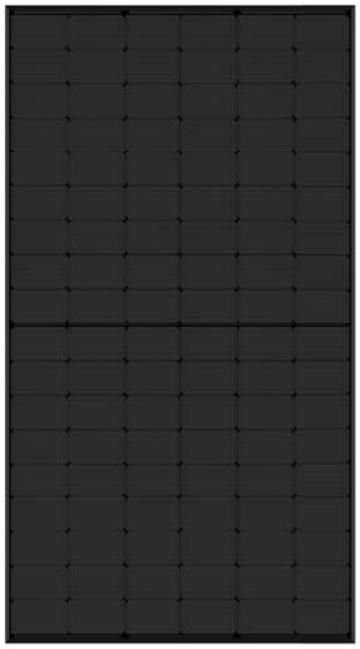
Positive power tolerance of 0~+3%

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.

### Hot 2.0 Technology

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

### PID Resistance

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

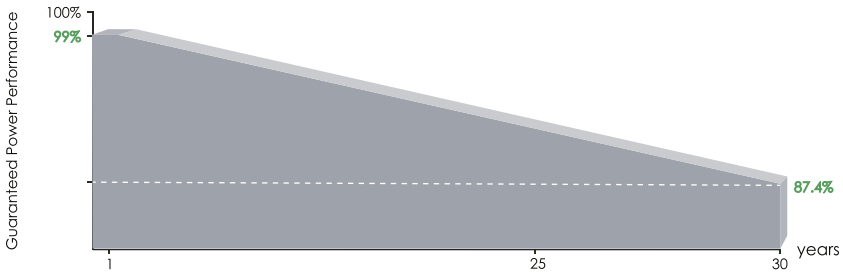
### Enhanced Mechanical Load

Certified to withstand: wind load (4000 Pascal) and snow load (6000 Pascal).

### Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.

## LINEAR PERFORMANCE WARRANTY

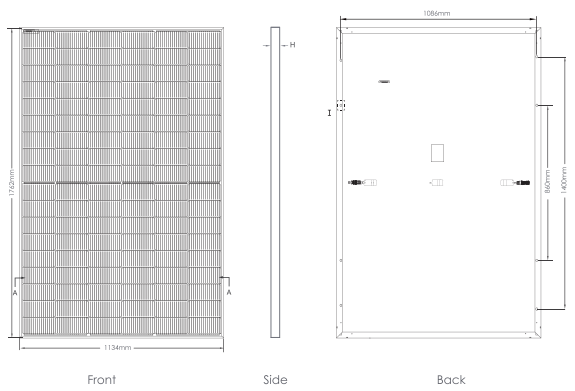



**25** Year Product Warranty

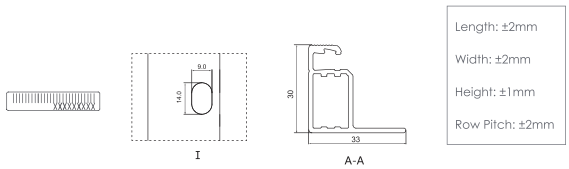
**30** Year Linear Power Warranty

**0.40%** Annual Degradation Over 30 years

## Engineering Drawings




Front Side Back




Length: ±2mm
Width: ±2mm
Height: ±1mm
Row Pitch: ±2mm

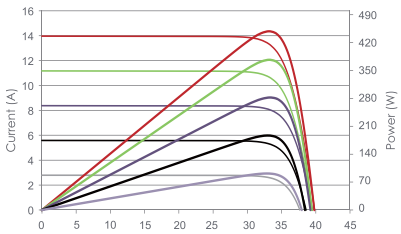
## Packaging Configuration

( Two pallets = One stack )

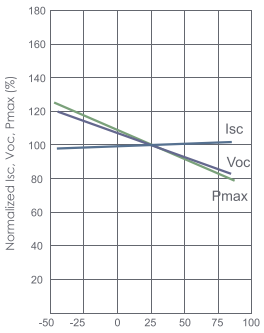
36pcs/pallets, 72pcs/stack, 936pcs/ 40'HQ Container

## Electrical Performance & Temperature Dependence

Current-Voltage & Power-Voltage Curves (430W)




Temperature Dependence of Isc, Voc, Pmax




## Mechanical Characteristics

| | |
|---|---|
| Cell Type | N type Mono-crystalline |
| No. of cells | 108 (6×18) |
| Dimensions | 1762×1134×30mm (69.36×44.65×1.18 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 1×4.0mm² (+): 400mm , (-): 200mm or Customized Length |

## SPECIFICATIONS

| Module Type | JKM445N-54HL4R-B | |
|---|---|---|
| | STC | NOCT |
| Maximum Power (Pmax) | 445Wp | 335Wp |
| Maximum Power Voltage (Vmp) | 33.19V | 30.93V |
| Maximum Power Current (Imp) | 13.41A | 10.83A |
| Open-circuit Voltage (Voc) | 39.77V | 37.78V |
| Short-circuit Current (Isc) | 13.87A | 11.20A |
| Module Efficiency STC (%) | 22.27% | |
| Operating Temperature(℃) | -40℃~+85℃ | |
| Maximum system voltage | 1000VDC (IEC) | |
| Maximum series fuse rating | 25A | |
| Power tolerance | 0~+3% | |
| Temperature coefficients of Pmax | -0.29%/℃ | |
| Temperature coefficients of Voc | -0.25%/℃ | |
| Temperature coefficients of Isc | 0.045%/℃ | |
| Nominal operating cell temperature (NOCT) | 45±2℃ | |

*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

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