

# Tiger Neo N-type 60HL4-(V) 470-490 Watt MONO-FACIAL MODULE

## N-Type

Positive power tolerance of 0~+3%

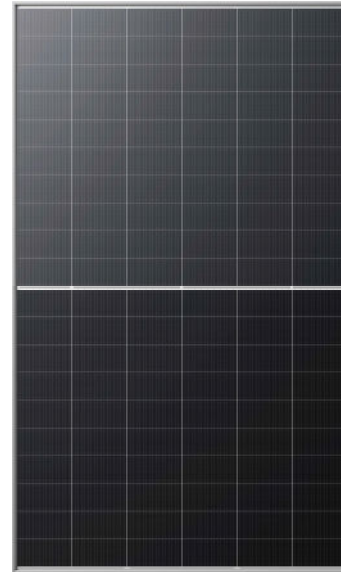
IEC61215(2016), IEC61730(2016)

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.



### 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 (2400 Pascal) and snow load (5400 Pascal).

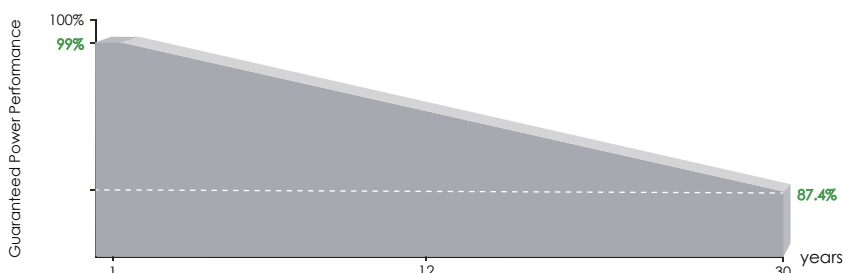


### Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



## LINEAR PERFORMANCE WARRANTY

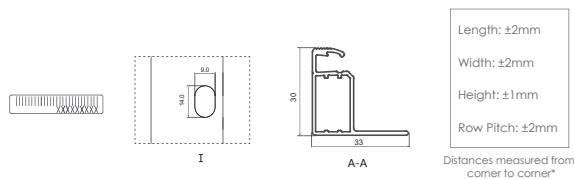
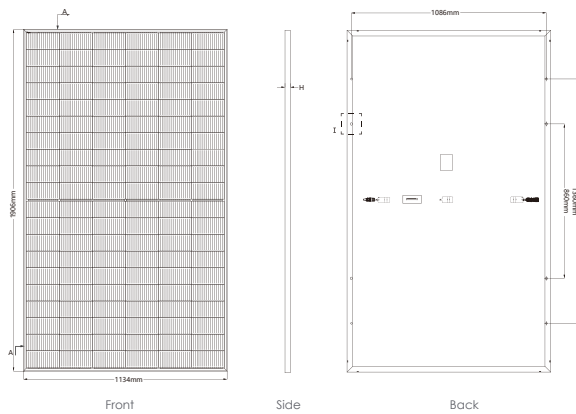


**12** Year Product Warranty

**30** Year Linear Power Warranty

**0.40%** Annual Degradation Over 30 years

## Engineering Drawings



Length:  $\pm 2\text{mm}$   
 Width:  $\pm 2\text{mm}$   
 Height:  $\pm 1\text{mm}$   
 Row Pitch:  $\pm 2\text{mm}$   
 Distances measured from corner to corner\*

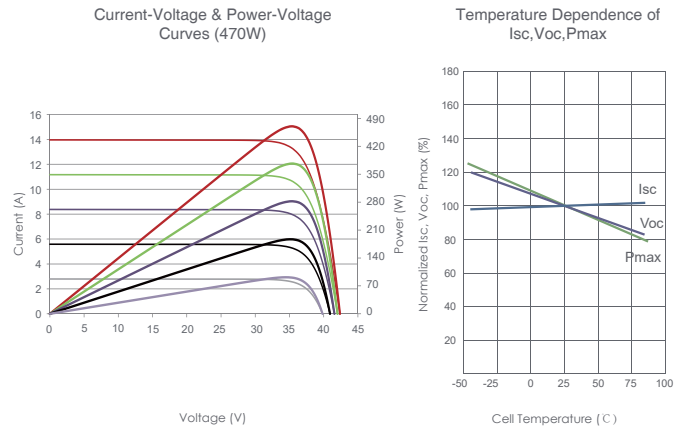
\*For detailed sizes and tolerance specification, please consult detailed module drawing

## Packaging Configuration

( Two pallets = One stack )

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

## Electrical Performance & Temperature Dependence



## Mechanical Characteristics

Cell Type	N type Mono-crystalline
No. of cells	120 (6×20)
Dimensions	1906×1134×30mm (74.92×44.65×1.18 inch)
Weight	22.5 kg (49.60 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 <sup>2</sup> (+): 400mm, (-): 200mm or Customized Length

## SPECIFICATIONS

Module Type	JKM470N-60HL4		JKM475N-60HL4		JKM480N-60HL4		JKM485N-60HL4		JKM490N-60HL4	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	470Wp	353Wp	475Wp	357Wp	480Wp	361Wp	485Wp	365Wp	490Wp	369Wp
Maximum Power Voltage (Vmp)	35.69V	33.21V	35.88V	33.40V	36.06V	33.61V	36.25V	33.84V	36.43V	34.00V
Maximum Power Current (Imp)	13.17A	10.63A	13.24A	10.69A	13.31A	10.74A	13.38A	10.80A	13.45A	10.86A
Open-circuit Voltage (Voc)	43.30V	41.14V	43.45V	41.28V	43.60V	41.42V	43.76V	41.57V	43.91V	41.71V
Short-circuit Current (Isc)	13.69A	11.05A	13.77A	11.12A	13.85A	11.18A	13.93A	11.24A	14.01A	11.31A
Module Efficiency STC (%)	21.78%		22.01%		22.24%		22.47%		22.71%	
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	-0.29%/°C									
Temperature coefficients of Voc	-0.25%/°C									
Temperature coefficients of Isc	0.045%/°C									
Nominal operating cell temperature (NOCT)	45±2°C									

\*STC: Irradiance 1000W/m<sup>2</sup> Cell Temperature 25°C AM=1.5  
 NOCT: Irradiance 800W/m<sup>2</sup> Ambient Temperature 20°C AM=1.5 Wind Speed 1m/s