

Tiger Neo N-type 54HL4R-(V) 435-455 Watt MONO-FACIAL MODULE

N-Type

Positive power tolerance of 0~+3%

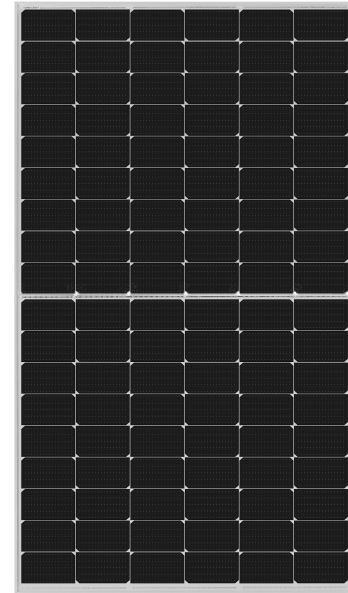
IEC61215(2016), IEC61730(2016)

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.

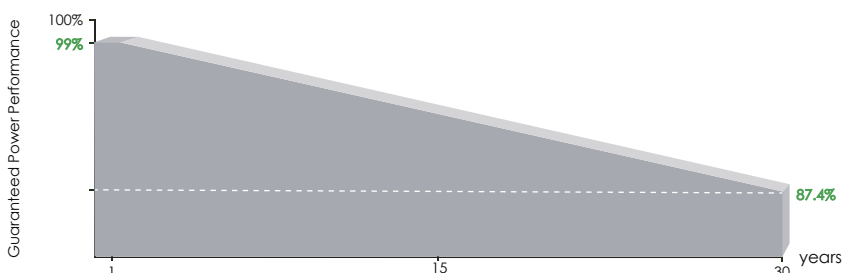


Enhanced Mechanical Load

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



LINEAR PERFORMANCE WARRANTY

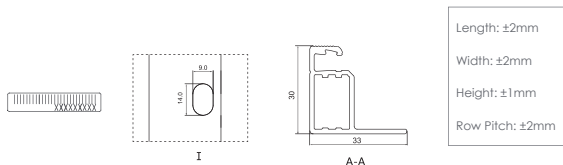
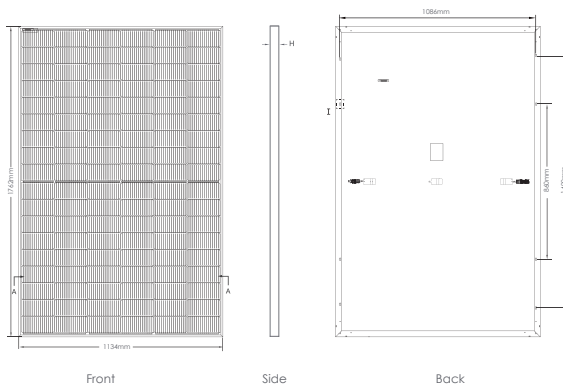


15 Year Product Warranty

30 Year Linear Power Warranty

0.40% Annual Degradation Over 30 years

Engineering Drawings



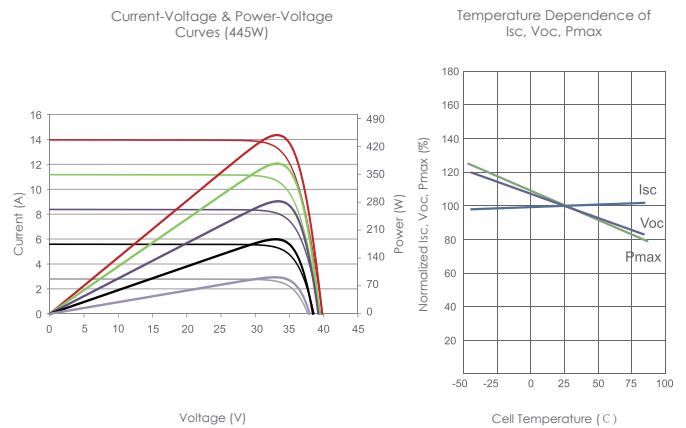
*This tolerance range applies only to the four-angle distance of the module as indicated above.

Packaging Configuration

(Two pallets = One stack)

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

Electrical Performance & Temperature Dependence



Mechanical Characteristics

Cell Type	N type Mono-crystalline
No. of cells	108 (2×54)
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 1×4.0mm ² (+): 400mm, (-): 200mm or Customized Length

SPECIFICATIONS

Module Type	JKM435N-54HL4R		JKM440N-54HL4R		JKM445N-54HL4R		JKM450N-54HL4R		JKM455N-54HL4R	
	JKM435N-54HL4R-V	JKM435N-54HL4R-V	JKM440N-54HL4R-V	JKM440N-54HL4R-V	JKM445N-54HL4R-V	JKM445N-54HL4R-V	JKM450N-54HL4R-V	JKM450N-54HL4R-V	JKM455N-54HL4R-V	JKM455N-54HL4R-V
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	435Wp	327Wp	440Wp	331Wp	445Wp	335Wp	450Wp	338Wp	455Wp	342Wp
Maximum Power Voltage (Vmp)	32.59V	30.33V	32.81V	30.56V	33.02V	30.76V	33.21V	30.90V	33.41V	31.09V
Maximum Power Current (Imp)	13.35A	10.78A	13.41A	10.83A	13.48A	10.89A	13.55A	10.94A	13.62A	11.0A
Open-circuit Voltage (Voc)	39.16V	37.20V	39.38V	37.41V	39.59V	37.61V	39.78V	37.79V	39.98V	37.98V
Short-circuit Current (Isc)	13.80A	11.14A	13.86A	11.19A	13.93A	11.25A	14.00A	11.30A	14.07A	11.36A
Module Efficiency STC (%)	21.77%		22.02%		22.27%		22.52%		22.77%	
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/m² Cell Temperature 25°C AM=1.5
NOCT: Irradiance 800W/m² Ambient Temperature 20°C AM=1.5 Wind Speed 1m/s