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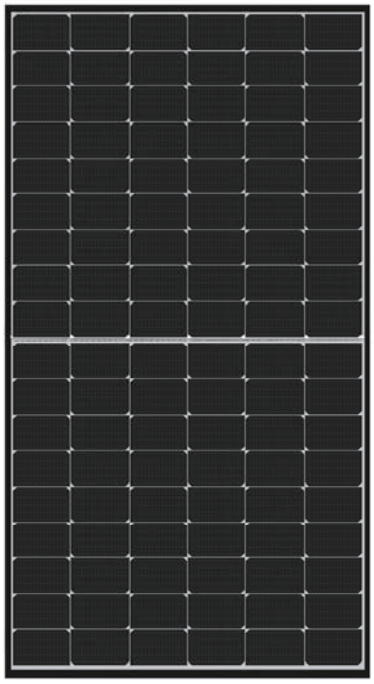
Building **Your Trust** in Solar

Tiger Neo N-type 54HL4-(V)

420-440 Watt

MONO-FACIAL MODULE

N-Type



IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018
Occupational health and safety management systems
(Made in China)

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.

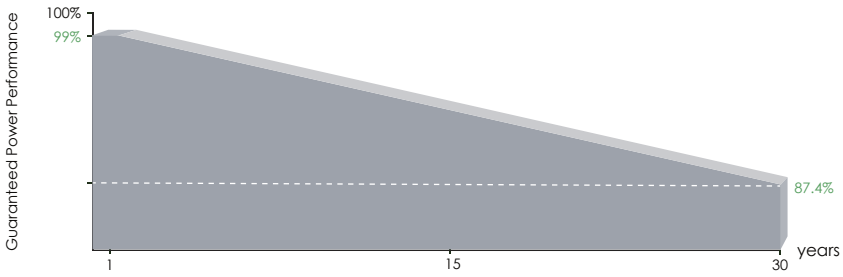
Enhanced Mechanical Load

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



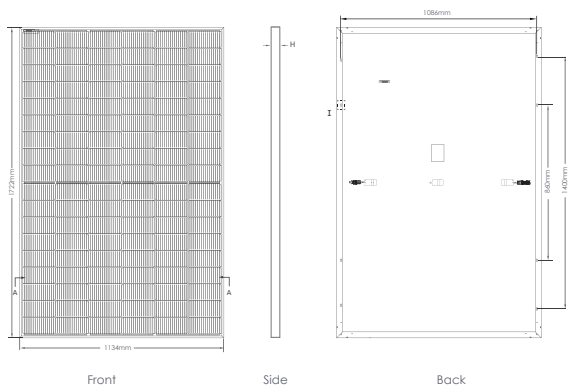
25* Year Product Warranty

30 Year Linear Power Warranty

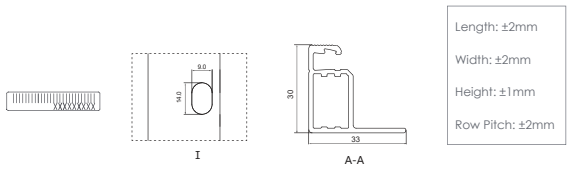
0.40% Annual Degradation Over 30 years

*The product warranty is only applicable in Australia.

Engineering Drawings



Front Side Back



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

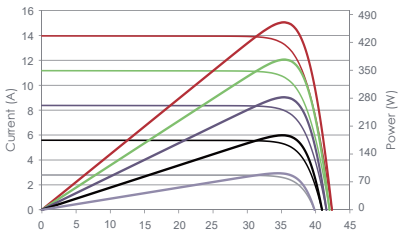
Packging Configuration

(Two pallets = One stack)

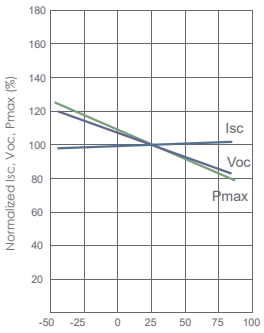
36pcs/pallets, 72pcs/stack, 936pcs/ 40'HQ Container

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	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 1×4.0mm² (+): 400mm (-): 200mm or Customized Length
Connector	JK03M/2B (MC4-EV02 option in Australia + NZ)
Fire Rating	Class C

SPECIFICATIONS

Module Type	JKM420N-54HL4 JKM420N-54HL4-V		JKM425N-54HL4 JKM425N-54HL4-V		JKM430N-54HL4 JKM430N-54HL4-V		JKM435N-54HL4 JKM435N-54HL4-V		JKM440N-54HL4 JKM440N-54HL4-V	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	420Wp	316Wp	425Wp	320Wp	430Wp	323Wp	435Wp	327Wp	440Wp	331Wp
Maximum Power Voltage (Vmp)	31.97V	29.78V	32.18V	29.99V	32.38V	30.10V	32.59V	30.33V	32.81V	30.56V
Maximum Power Current (Imp)	13.14A	10.61A	13.21A	10.67A	13.28A	10.73A	13.35A	10.78A	13.41A	10.83A
Open-circuit Voltage (Voc)	38.54V	36.61V	38.75V	36.81V	38.95V	37.00V	39.16V	37.20V	39.38V	37.41V
Short-circuit Current (Isc)	13.59A	10.97A	13.66A	11.03A	13.73A	11.09A	13.80A	11.14A	13.86A	11.19A
Module Efficiency STC (%)	21.51%		21.76%		22.02%		22.28%		22.53%	
Operating Temperature(℃)	-40℃~+85℃									
Maximum system voltage	1000/1500VDC (IEC)									
Maximum series fuse rating	25A									
Power measurement tolerance	-3%~+3%									
Temperature coefficients of Pmax	-0.30%/℃									
Temperature coefficients of Voc	-0.25%/℃									
Temperature coefficients of Isc	0.046%/℃									
Nominal operating cell temperature (NOCT)	45±2℃									

*STC: Ir radiance 1000W/m² Cell Temperature 25℃ AM=1.5

NOCT: Ir radiance 800W/m² Ambient Temperature 20℃ AM=1.5 Wind Speed 1m/s

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Specifications included in this datasheet are subject to change without notice.