

# Tiger Neo N-type 54HL4R-B 420-440 Watt

ALL-BLACK MODULE

# N-Type

Positive power tolerance of 0~+3%

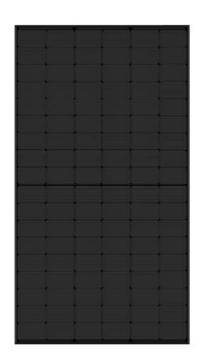
IEC61215(2016), IEC61730(2016)

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



# Durability Against Extreme Environmental

High salt mist and ammonia resistance.



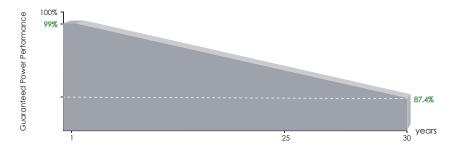








# LINEAR PERFORMANCE WARRANTY



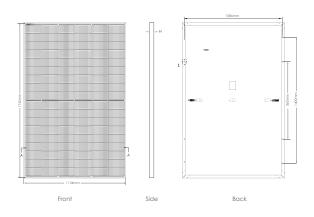
**25** Year Product Warranty

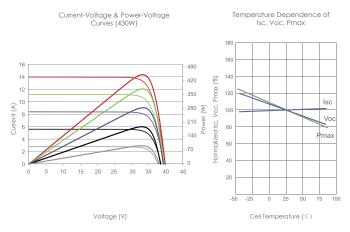
**30** Year Linear Power Warranty

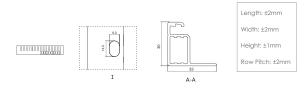
**0.40%** Annual Degradation Over 30 years

## **Engineering Drawings**

## Electrical Performance & Temperature Dependence







## **Packaging Configuration**

(Two pallets = One stack)

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

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 1×4.0mm* (+): 400mm , (-): 200mm or Customized Length							

SPECIFICATIONS										
Module Type	JKM420N-54HL4R-B		JKM425N-54HL4R-B		JKM430N-54HL4R-B		JKM435N-54HL4R-B		JKM440N-54HL4R-B	
	STC	NOCT								
Maximum Power (Pmax)	420Wp	316Wp	425Wp	320Wp	430Wp	323Wp	435Wp	327Wp	440Wp	331Wp
Maximum Power Voltage (Vmp)	32.16V	29.95V	32.37V	30.19V	32.58V	30.30V	32.78V	30.50V	32.99V	30.73V
Maximum Power Current (Imp)	13.06A	10.55A	13.13A	10.60A	13.20A	10.66A	13.27V	10.72A	13.34A	10.77A
Open-circuit Voltage (Voc)	38.74V	36.80V	38.95V	37.00V	39.16V	37.20V	39.36V	37.39V	39.57V	37.59V
Short-circuit Current (Isc)	13.51A	10.91A	13.58A	10.96A	13.65A	11.02A	13.72A	11.08A	13.80A	11.14A
Module Efficiency STC (%)	21.02%		21.27%		21.52%		21.77%		22.02%	
Operating Temperature (°C)	-40°C~+85°C									
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°C										

















# Tiger Neo N-type 54HL4R-(V) 425-450 Watt

MONO-FACIAL MODULE

# N-Type

Positive power tolerance of 0~+3%

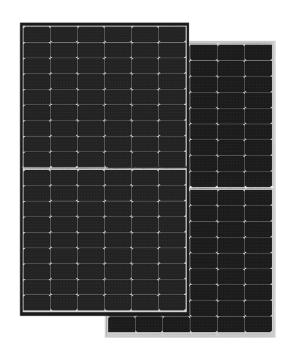
IEC61215(2016), IEC61730(2016)

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 (4000 Pascal) and snow load (6000 Pascal).



## **Durability Against Extreme Environmental Conditions**

High salt mist and ammonia resistance.



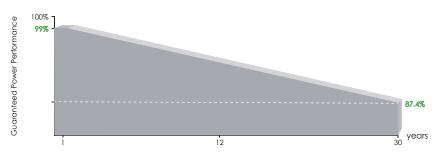








# LINEAR PERFORMANCE WARRANTY



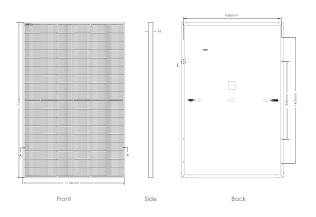
15 Year Product Warranty

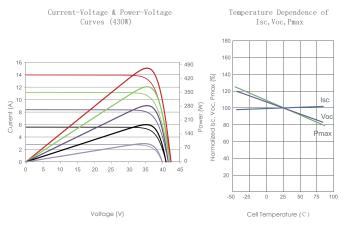
**30** Year Linear Power Warranty

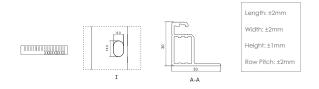
**0.40%** Annual Degradation Over 30 years

# **Engineering Drawings**

# Electrical Performance & Temperature Dependence







# **Packaging Configuration**

(Two pallets = One stack)

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

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 <sup>+</sup> (+): 400mm , (-): 200mm or Customized Length							

SPECIFICATIONS													
Module Type	JKM425N-54HL4R JKM425N-54HL4R-V		JKM430N-54HL4R JKM430N-54HL4R-V			JKM435N-54HL4R JKM435N-54HL4R-V		JKM440N-54HL4R JKM440N-54HL4R-V		JKM445N-54HL4R JKM445N-54HL4R-V		JKM450-54HL4R JKM450N-54HL4R-\	
	STC	NOCT	STC	NOCT S	STC STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	
Maximum Power (Pmax)	425Wp	320Wp	430Wp	323Wp	435Wp	327Wp	440Wp	331Wp	445Wp	335Wp	450Wp	338Wp	
Maximum Power Voltage (Vmp)	32.18V	29.99V	32.38V	30/10	32.59V	30\/33	32.81V	30.56V	33.02V	30.76V	33.21V	30.90V	
Maximum Power Current (Imp)	13.21A	10.67A	13.28A	10.73A	13.35A	10.78A	13.41A	10.83A	13.48A	10.89A	13.55A	10.94A	
Open-circuit Voltage (Voc)	38.75V	36/81	38.95V	37.00V	39.16V	37.20V	39.38V	37.41V	39.59V	37.61V	39.78V	37.79V	
Short-circuit Current (Isc)	13.66A	11.03A	13.73A	11.09A	13.80A	11.14A	13.86A	11.19A	13.93A	11.25A	14.00A	11.30A	
Module Efficiency STC (%)	21.	27%	21	.52%	21.	77%	22.	02%	22.2	27%	22.	52%	
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 Pmo	ficients of Pmax -0.29%/°C												
Temperature coefficients of Voc	-0.25%/°C												
Temperature coefficients of Isc	0.045%/℃												
Nominal operating cell tempera	ature (NC	OCT)				45±2°C							













