

# Tiger Neo N-type 54HL4R-(V) 425-445 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.



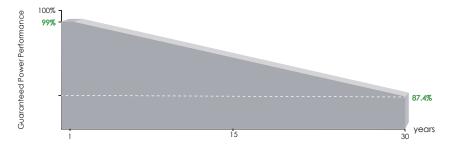








### LINEAR PERFORMANCE WARRANTY



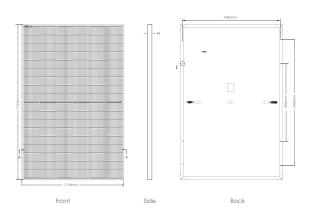
15 Year Product Warranty

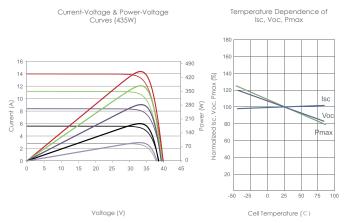
**30** Year Linear Power Warranty

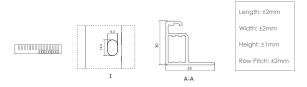
0.40% Annual Degradation Over 30 years

#### **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>2</sup> (+): 400mm , (-): 200mm or Customized Length						

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	
STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
425Wp	320Wp	430Wp	323Wp	435Wp	327Wp	440Wp	331Wp	445Wp	335Wp
32.18V	29.99V	32.38V	30.10V	32.59V	30.33V	32.81V	30.56V	33.02V	30.76V
13.21A	10.67A	13.28A	10.73A	13.35A	10.78A	13.41A	10.83A	13.48A	10.89A
38.75V	36.81V	38.95V	37.00V	39.16V	37.20V	39.38V	37.41V	39.59V	37.61V
13.66A	11.03A	13.73A	11.09A	13.80A	11.14A	13.86A	11.19A	13.93A	11.25A
21.27%		21.52%		21.77%		22.02%		22.27%	
-40°C~+85°C									
1000/1500VDC (IEC)									
25A									
0~+3%									
-0.29%/℃									
-0.25%/°C									
0.045%/℃									
Nominal operating cell temperature (NOCT) 45±2°C									
	JKM425t STC 425Wp 32.18V 13.21A 38.75V 13.66A 21.2	STC NOCT 425Wp 320Wp 32.18V 29.99V 13.21A 10.67A 38.75V 36.81V 13.66A 11.03A 21.27%	JKM425N-54HL4R-V         JKM430           STC         NOCT         STC           425Wp         320Wp         430Wp           32.18V         29.99V         32.38V           13.21A         10.67A         13.28A           38.75V         36.81V         38.95V           13.66A         11.03A         13.73A           21.27%         21.	JKM425N-54HL4R-V         JKM430N-54HL4R-V           STC         NOCT         STC         NOCT           425Wp         320Wp         430Wp         323Wp           32.18V         29.99V         32.38V         30.10V           13.21A         10.67A         13.28A         10.73A           38.75V         36.81V         38.95V         37.00V           13.66A         11.03A         13.73A         11.09A           21.27%         21.52%	STC         NOCT         STC         NOCT         STC           425Wp         320Wp         430Wp         323Wp         435Wp           32.18V         29.99V         32.38V         30.10V         32.59V           13.21A         10.67A         13.28A         10.73A         13.35A           38.75V         36.81V         38.95V         37.00V         39.16V           13.66A         11.03A         13.73A         11.09A         13.80A           21.27%         21.52%         21.7           -40°C~         -0.299           -0.299         -0.299           -0.299         -0.259           -0.259         -0.259	JKM425N-54HL4R-V         JKM430N-54HL4R-V         JKM435N-54HL4R-V           STC         NOCT         STC         NOCT         STC         NOCT           425Wp         320Wp         430Wp         323Wp         435Wp         327Wp           32.18V         29.99V         32.38V         30.10V         32.59V         30.33V           13.21A         10.67A         13.28A         10.73A         13.35A         10.78A           38.75V         36.81V         38.95V         37.00V         39.16V         37.20V           13.66A         11.03A         13.73A         11.09A         13.80A         11.14A           21.27*         -40°C~+85°C           1000/1500VDC (IEC)           25A           0~+3%           -0.29%/°C           -0.25%/°C           -0.25%/°C	JKM425N-54HL4R-V         JKM430N-54HL4R-V         JKM435N-54HL4R-V         JKM440N           STC         NOCT         STC         NOCT         STC           425Wp         320Wp         430Wp         323Wp         435Wp         327Wp         440Wp           32.18V         29.99V         32.38V         30.10V         32.59V         30.33V         32.81V           13.21A         10.67A         13.28A         10.73A         13.35A         10.78A         13.41A           38.75V         36.81V         38.95V         37.00V         39.16V         37.20V         39.38V           13.66A         11.03A         13.73A         11.09A         13.80A         11.14A         13.86A           21.27%         21.52%         21.77%         22.         -40°C~+85°C           1000/1500VDC (IEC)           25A           0.29%/°C           -0.29%/°C           -0.25%/°C           0.045%/°C         0.045%/°C	JKM425N-54HL4R-V         JKM430N-54HL4R-V         JKM435N-54HL4R-V         JKM440N-54HL4R-V           STC         NOCT         STC         NOCT         STC         NOCT           425Wp         320Wp         430Wp         323Wp         435Wp         327Wp         440Wp         331Wp           32.18V         29.99V         32.38V         30.10V         32.59V         30.33V         32.81V         30.56V           13.21A         10.67A         13.28A         10.73A         13.35A         10.78A         13.41A         10.83A           38.75V         36.81V         38.95V         37.00V         39.16V         37.20V         39.38V         37.41V           13.66A         11.03A         13.73A         11.09A         13.80A         11.14A         13.86A         11.19A           21.27*         21.52*         21.77*         22.02*         2.02*           -40°C~+85°C           -40°C~+85°C           -0.29*/°C           -0.29*/°C           -0.25*/°C	JKM425N-54HL4R-V         JKM430N-54HL4R-V         JKM435N-54HL4R-V         JKM440N-54HL4R-V         JKM445N-54HL4R-V           STC         NOCT         STC         NOCT         STC         NOCT         STC           425Wp         320Wp         430Wp         323Wp         435Wp         327Wp         440Wp         331Wp         445Wp           32.18V         29.99V         32.38V         30.10V         32.59V         30.33V         32.81V         30.56V         33.02V           13.21A         10.67A         13.28A         10.73A         13.35A         10.78A         13.41A         10.83A         13.48A           38.75V         36.81V         38.95V         37.00V         39.16V         37.20V         39.38V         37.41V         39.59V           13.66A         11.03A         13.73A         11.09A         13.80A         11.14A         13.86A         11.19A         13.93A           21.27%         21.52%         21.77%         22.02%         22.0         22.0













