

Tiger Neo 54HL4R-B

430-455 Watt ALL BLACK MONO-FACIAL MODULE

N-type





N-type Technology

N-type modules with Tunnel Oxide Passivating Contacts (TOPcon) technology offer lower LID/LeTID degradation and better low light performance.



Durability Against Extreme Environment

High salt mist and ammonia resistance.



SMBB Technology

Better light trapping and current collection to improve module power output and reliability.



HOT 3.0 Technology

N-type modules with JinkoSolar's HOT 3.0 technology offer better reliability and efficiency.



Mechanical Load Enhanced

Certified to withstand: 6000 Pa front side max static test load 4000 Pa rear side max static test load



Anti-PID guarantee

Minimizes the chance of degradation caused by PID phenomena through optimization of cell production technology and material control.



• IEC61215:2021 / IEC61730:2023

- IEC61701 / IEC62716 / IEC60068 / IEC62804
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environment Management System
- ISO45001:2018: Occupational health and safety management systems



JKM430-455N-54HL4R-B-F8-EN

54HL4R-B 430-455 Watt

Mechanical Characteristics

Cell Type	N. trune Mener en etalline			
Септуре	N -type Mono-crystalline			
No. of cells	108 (54×2)			
Dimensions	1762×1134×30 mm			
Weight	21.0 kg			
Front Glass	3.2mm, Anti-reflection Coating, High Transmission, Low Iron, Tempered Glass			
Frame	Anodized Aluminium Alloy			
Junction Box	IP68 Rated			
Protection Class	Class II			
IEC Fire Type	Class C			
Connector Type	JK03M/MC4/Others			
Output Cables	4.0 mm ² (+): 400 mm , (-): 200 mm or Customized Length			

Packaging Configuration

Pallet Dimensions	1792×1140×1249 mm		
Packing detail	37 pcs/pallets, 74 pcs/stack,		
(Two pallets=One stack)	962 pcs/ 40'HQ Container		

Specifications (STC)

Maximum Power – Pmax [Wp]	430	435	440	445	450	455	
Maximum Power Voltage – Vmp [V]	32.58	32.78	32.99	33.19	33.39	33.58	
Maximum Power Current – Imp [A]	13.20	13.27	13.34	13.41	13.48	13.55	
Open-circuit Voltage – Voc [V]	39.16	39.36	39.57	39.77	39.97	40.17	
Short-circuit Current – Isc [A]	13.65	13.72	13.80	13.87	13.94	14.01	
Module Efficiency STC [%]	21.52	21.77	22.02	22.27	22.52	22.77	
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						

STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5

Application Conditions

Operating Temperature	-40 °C ~ +70°C
Maximum System Voltage	1000 VDC (IEC)
Maximum Series Fuse Rating	25 A

Engineering Drawings



*Note: For specific dimensions and tolerance ranges, please refer to the corresponding detailed module drawings.

Electrical Performance



Current-Voltage Curves (54HL4R-B 445W)





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Note: Please read the safety and installation manual before using the product. We reserve the right of final interpretation. The specifications in this datasheet are subject to change without notice.