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Tiger Neo

54HL4R-B

425-445 Watt

ALL BLACK MONO-FACIAL MODULE

N-type

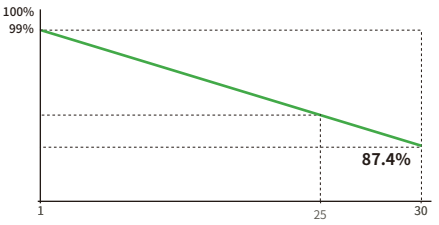


N-type Technology

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

HOT 2.0 Technology

N-type modules with JinkoSolar's HOT 2.0 technology offer better reliability and efficiency.



25 Year Product Warranty | **30** Year Linear Power Warranty | **1**% First-year Degradation | **0.4**% Annual Degradation Over 30 Years

Durability Against Extreme Environment

High salt mist and ammonia resistance.

Mechanical Load Enhanced

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

- IEC61215 (2016) / IEC61730 (2016)
- IEC61701 / IEC62716 / IEC60068 / IEC62804
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environment Management System
- ISO45001:2018: Occupational health and safety management systems

SMBB Technology

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

Anti-PID Guarantee

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

JKM425-445N-54HL4R-B-F7-EN

54HL4R-B 425-445 Watt

Mechanical Characteristics

Cell Type	N -type Mono-crystalline
No. of cells	108（54×2）
Dimensions	1762×1134×30mm
Weight	21.0 kg
Front Glass	3.2 mm, 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
Output Cables	4.0 mm² (+): 400 mm , (-): 200 mm or Customized Length

Packaging Configuration

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

Specifications (STC)

Maximum Power - Pmax [Wp]	425	430	435	440	445
Maximum Power Voltage - Vmp [V]	32.37	32.58	32.78	32.99	33.19
Maximum Power Current - Imp [A]	13.13	13.20	13.27	13.34	13.41
Open-circuit Voltage - Voc [V]	38.95	39.16	39.36	39.57	39.77
Short-circuit Current - Isc [A]	13.58	13.65	13.72	13.80	13.87
Module Efficiency STC [%]	21.27	21.52	21.77	22.02	22.27
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

Specifications (NOCT)

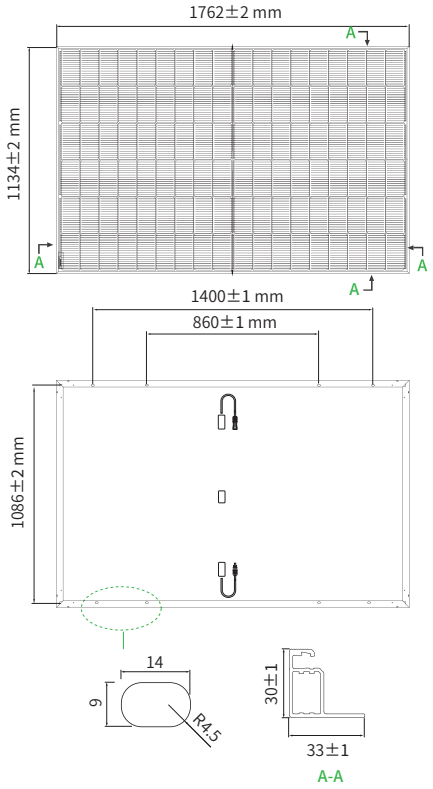
Maximum Power - Pmax [Wp]	320	323	327	331	335
Maximum Power Voltage - Vmp [V]	30.19	30.30	30.50	30.73	30.93
Maximum Power Current - Imp [A]	10.60	10.66	10.72	10.77	10.83
Open-circuit Voltage - Voc [V]	37.00	37.20	37.39	37.59	37.78
Short-circuit Current - Isc [A]	10.96	11.02	11.08	11.14	11.20

NOCT: Irradiance 800W/m², Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s

Application Conditions

Operating Temperature	-40 °C ~ +85 °C
Maximum System Voltage	1000 VDC (IEC)
Maximum Series Fuse Rating	25 A
Nominal Operating Cell Temperature - NOCT	45±2 °C

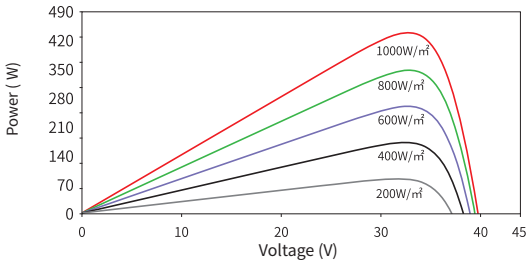
Engineering Drawings



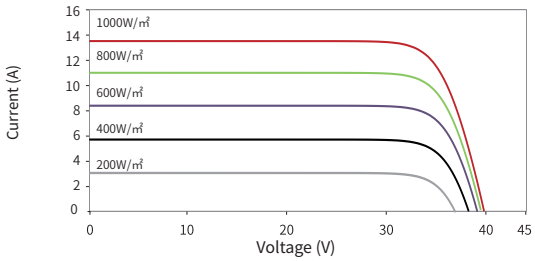
Note: For specific dimensions and tolerance ranges, please refer to the corresponding detailed module drawings.

Electrical Performance

Power-Voltage Curves (54HL4R-B 435W)



Current-Voltage Curves (54HL4R-B 435W)



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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.