

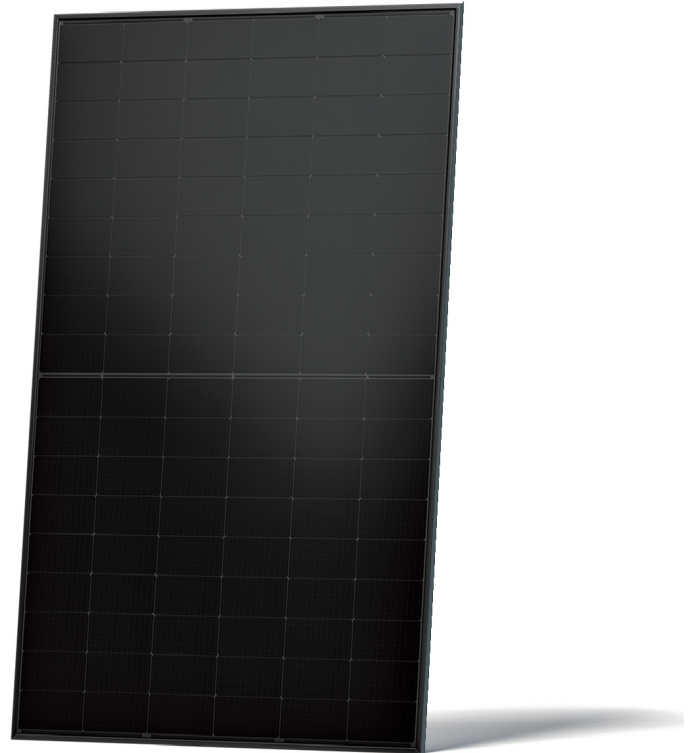
# TIGER Neo

## 54HL4-B

420-440 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.



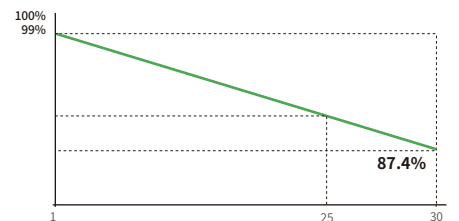
### Mechanical Load Enhanced

Certified to withstand:  
5400Pa front side max static test load  
2400 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.



**25 Year** Product Warranty | **30 Year** Linear Power Warranty | **1%** First-year Degradation | **0.40%** Annual Degradation Over 30 Years

- 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



JKM420-440N-54HL4-B-F2C1-US

# 54HL4-B 420-440 Watt

## Mechanical Characteristics

Cell Type	N -type Mono-crystalline
No. of cells	108 (54×2)
Dimensions	1722×1134×35 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 <sup>2</sup> (+): 400 mm , (-): 200 mm or Customized Length

## Packaging Configuration

Pallet Dimensions	1752×1120×1249 mm
Packing detail (Two pallets=One stack)	31 pcs/pallets, 62 pcs/stack, 806 pcs/ 40'HQ Container

## Specifications (STC)

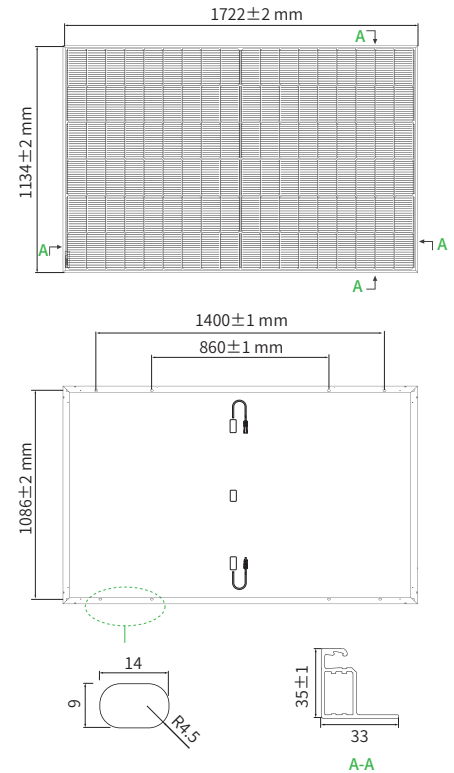
Maximum Power – Pmax [Wp]	420	425	430	435	440
Maximum Power Voltage – Vmp [V]	32.16	32.37	32.58	32.78	32.99
Maximum Power Current – Imp [A]	13.06	13.13	13.20	13.27	13.34
Open-circuit Voltage – Voc [V]	38.74	38.95	39.16	39.36	39.57
Short-circuit Current – Isc [A]	13.51	13.58	13.65	13.72	13.80
Module Efficiency STC [%]	21.51	21.76	22.02	22.28	22.53
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/m<sup>2</sup>, 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

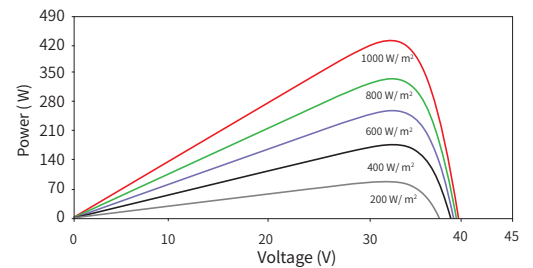
## Engineering Drawings



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

## Electrical Performance

Power-Voltage Curves (54HL4-B 430W)



Current-Voltage Curves (54HL4-B 430W)

