Jinko Solar Co., Ltd.
www.jinkosolar.com

Solar
JinKO

TIGER Neo

54HL4R-BDB

435-450 Watt

ALL BLACK BIFACIAL MODULE
WITH DUAL GLASS

N-type



HOT 2.0

HOT 2.0 Technology

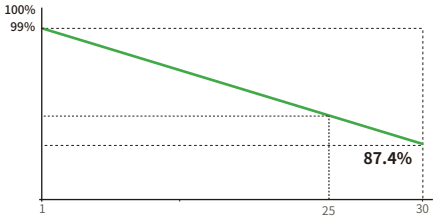
N-type modules with JinkoSolar's HOT 2.0 technology offer better reliability and efficiency.

Dual-Sided Power Generation

Dual-sided power generation gain increases with backside exposure to light, significantly reducing LCOE.

Mechanical Load Enhanced

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



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

- IEC61215 (2021) / IEC61730 (2023)
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environment Management System
- ISO45001:2018: Occupational health and safety management systems

CLEAN ENERGY COUNCIL MEMBER
POSITIVE QUALITY™ Continuous Quality Assurance

JKM435-450N-54HL4R-BDB-F2-EN AU CEC

54HL4R-BDB 435-450 Watt

Mechanical Characteristics

Cell Type	N- type Mono-crystalline
No. of cells	108 (54×2)
Dimensions	1762×1134×30 mm
Weight	24.5 kg
Front Glass	2.0 mm, Anti-Reflection Coating
Back Glass	2.0 mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Protection Class	Class II
IEC Fire Type	Class C
Connector Type	Jinko material:JK03M; JK03M2; Stäubli:MC4-EVO2;
Output Cables	4.0 mm^2 (+): 400 mm , (-): 200 mm or Customized Length

Packaging Configuration

Pallet Dimentions	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]	435	440	445	450
Maximum Power Voltage - Vmp [V]	33.26	33.44	33.61	33.79
Maximum Power Current - Imp [A]	13.08	13.16	13.24	13.32
Open-circuit Voltage - Voc [V]	39.63	39.83	40.03	40.23
Short-circuit Current - Isc [A]	13.91	13.98	14.05	14.12
Module Efficiency STC [%]	21.77	22.02	22.27	22.52
Power Measurement Tolerance	± 3%			
Power Sorting Tolerance	-5W~+15W			
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^2, Cell Temperature 25°C, AM=1.5

Specifications (BNPI)

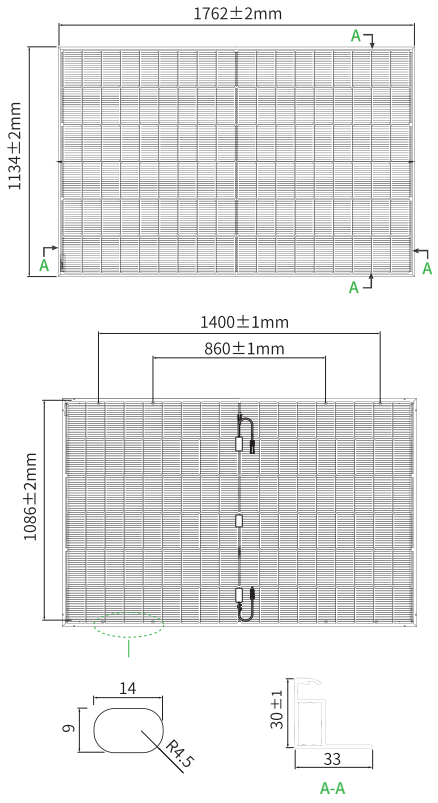
Maximum Power - Pmax [Wp]	480	485	491	496
Maximum Power Voltage - Vmp [V]	33.26	33.41	33.61	33.76
Maximum Power Current - Imp [A]	14.43	14.52	14.60	14.69
Open-circuit Voltage - Voc [V]	39.63	39.83	40.03	40.23
Short-circuit Current - Isc [A]	15.32	15.40	15.48	15.56
Short-circuit Current Bifaciality Coefficient	(80±5) %			
Open-circuit Voltage Bifaciality Coefficient	(98±5) %			
Maximum Power Bifaciality Coefficient	(80±5) %			

BNPI: Irradiance 1000 + φ*135W /m^2, Cell Temperature 25°C, AM=1.5

Application Conditions

Operating Temperature	-40 °C ~ +85 °C
Maximum System Voltage	1500 VDC (IEC)
Maximum Series Fuse Rating	30 A
Nominal Operating Cell Temperature -NOCT	45±2 °C
Refer. Bifacial Factor	80±5 %

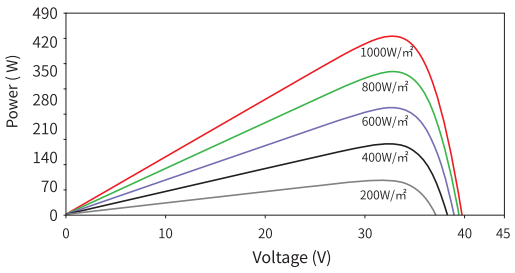
Engineering Drawings



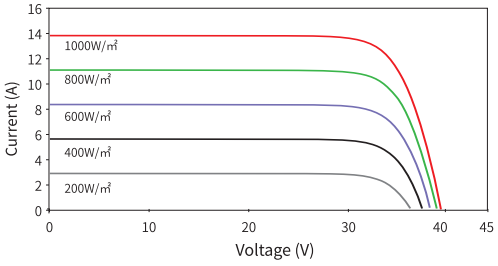
Noted: For specific dimensions and tolerance ranges, please refer to the corresponding detailed module drawings.

Electrical Performance

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



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



JinKO Solar
No.1, Lane 1466, Shen Chang Road, Minhang District, Shanghai, China
Tel: +86-21-51808777 Fax: +86-21-51808600 www.jinkosolar.com

Made in China

JKM435-450N-54HL4R-BDB-F2-EN AU CEC

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.