

Tiger Neo Bold N-type 54HL4R-BDV 430-450 Watt

BIFACIAL MODULE WITH
DUAL GLASS

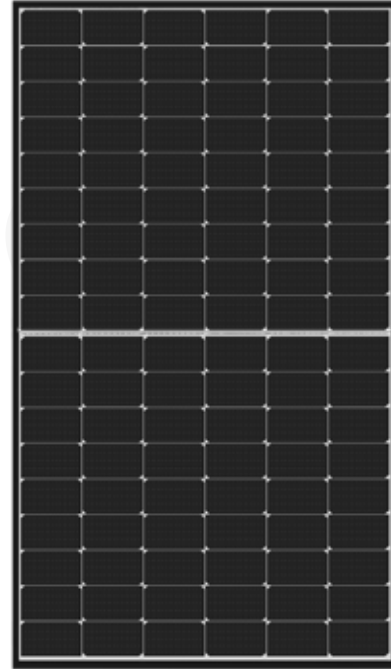
N-Type

IEC61215(2016), IEC61730(2016)

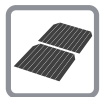
ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018
Occupational health and safety management systems
(Made in China)



Key Features



SMBB Technology

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



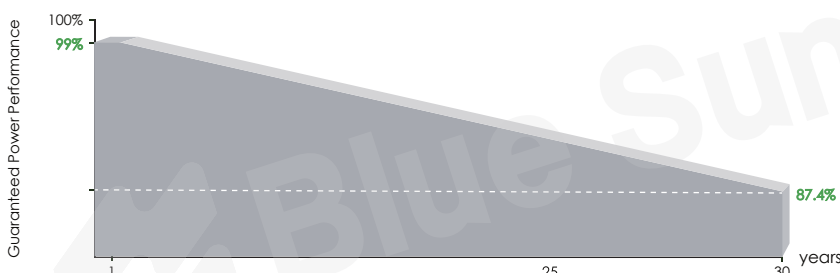
Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



POSITIVE QUALITY™
Continuous Quality Assurance

LINEAR PERFORMANCE WARRANTY



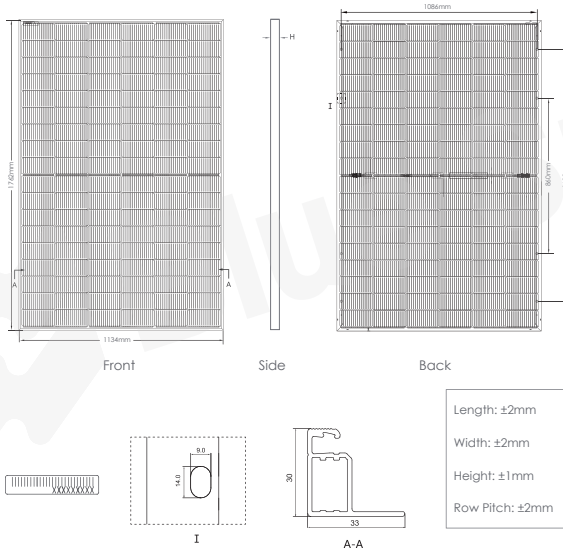
30* Year Product Warranty

30 Year Linear Power Warranty

0.40% Annual Degradation Over 30 years

*The product warranty is only applicable in Australia

Engineering Drawings



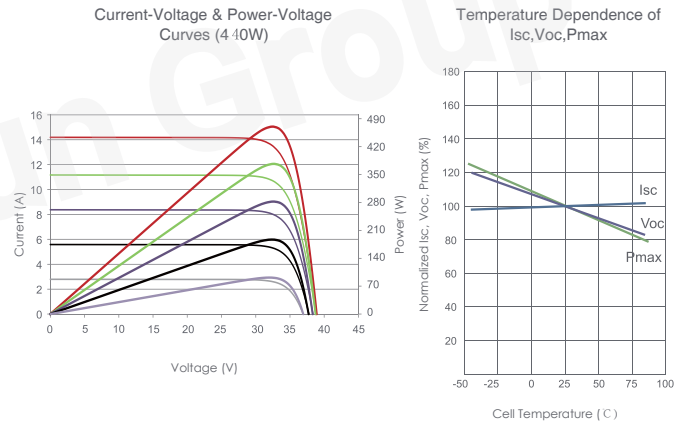
*This tolerance range applies only to the four-angle distance of the module as indicated above.

Packaging Configuration

(Two pallets = One stack)

36pcs/pallets, 72pcs/stack, 936 pcs/ 40'HQ Container

Electrical Performance & Temperature Dependence



Mechanical Characteristics

Cell Type	N type Mono-crystalline
No. of cells	108 (2×54)
Dimensions	1762×1134×30mm (69.37×44.65×1.18 inch)
Weight	22.0 kg (47.84 lbs)
Front Glass	1.6mm, Anti-Reflection Coating
Back Glass	1.6mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm ² (+): 400mm, (-): 200mm or Customized Length
Connector Type	1500V: Staubli MC4-EVO2; JK03M/2B, JK03M2/2B, Jinko PV material
Fire Class	Class C

SPECIFICATIONS

Module Type	JKM430N-54HL4R-BDV		JKM435N-54HL4R-BDV		JKM440N-54HL4R-BDV		JKM445N-54HL4R-BDV		JKM450N-54HL4R-BDV	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	430Wp	323Wp	435Wp	327Wp	440Wp	331Wp	445Wp	335Wp	450Wp	338Wp
Maximum Power Voltage (Vmp)	32.04V	29.94V	32.23V	30.12V	32.40V	30.27V	32.58V	30.45V	32.75V	30.60V
Maximum Power Current (Imp)	13.42A	10.80A	13.50A	10.86A	13.58A	10.93A	13.66A	10.99A	13.74A	11.06A
Open-circuit Voltage (Voc)	38.58V	36.64V	38.79V	36.84V	38.98V	37.02V	39.18V	37.21V	39.37V	37.40V
Short-circuit Current (Isc)	14.19A	11.46A	14.27A	11.52A	14.35A	11.59A	14.43A	11.65A	14.51A	11.71A
Module Efficiency STC (%)	21.52%		21.77%		22.02%		22.27%		22.52%	
Operating Temperature(°C)	-40°C~+85°C									
Maximum system voltage	1500VDC (IEC) with -V=1500V, without -V=1000V									
Maximum series fuse rating	30A									
Power measurement tolerance	±3%									
Temperature coefficients of Pmax	-0.29%/°C									
Temperature coefficients of Voc	-0.25%/°C									
Temperature coefficients of Isc	0.045%/°C									
Nominal operating cell temperature (NOCT)	45±2°C									
Bifacial Factor	80±5%									

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

		Bifacial Factor				
		5%	15%	25%	35%	45%
5%	Maximum Power (Pmax)	452Wp	457Wp	462Wp	467Wp	473Wp
	Module Efficiency STC (%)	22.60%	22.86%	23.12%	23.38%	23.65%
15%	Maximum Power (Pmax)	495Wp	500Wp	506Wp	512Wp	518Wp
	Module Efficiency STC (%)	24.75%	25.04%	25.32%	25.61%	25.90%
25%	Maximum Power (Pmax)	538Wp	544Wp	550Wp	556Wp	563Wp
	Module Efficiency STC (%)	26.90%	27.21%	27.53%	27.84%	28.15%

*STC: Irradiance 1000W/m²

Cell Temperature 25°C

AM=1.5

NOCT: Irradiance 800W/m²

Ambient Temperature 20°C

AM=1.5

Wind Speed 1m/s