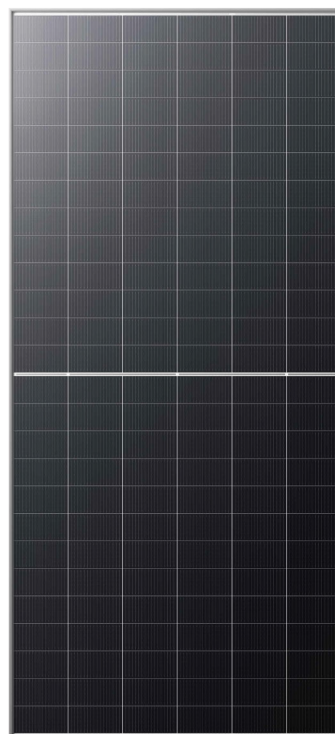


Tiger Neo N-type 78HL4-BDV 640-645 Watt

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.



PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



Higher Power Output

Module power increases 5-25% generally, bringing significantly lower LCOE and higher IRR.



Hot 2.0 Technology

The N-type module with Hot 2.0 technology has better reliability and lower LID/LETID.

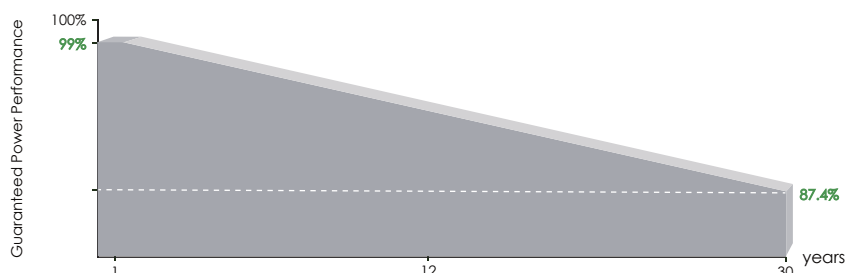


Enhanced Mechanical Load

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



LINEAR PERFORMANCE WARRANTY

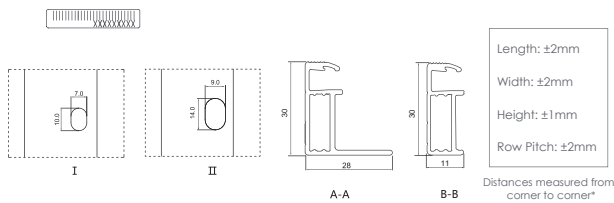
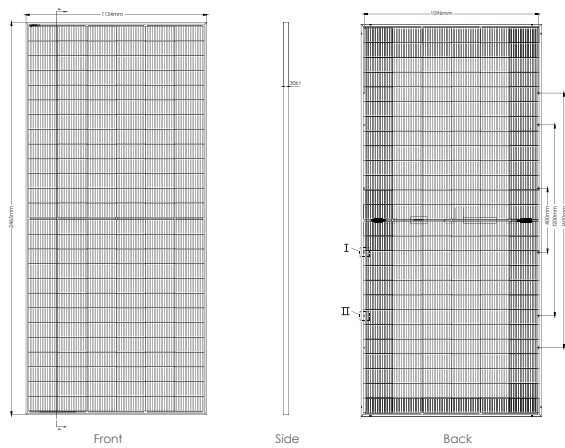


12 Year Product Warranty

30 Year Linear Power Warranty

0.40% Annual Degradation Over 30 years

Engineering Drawings



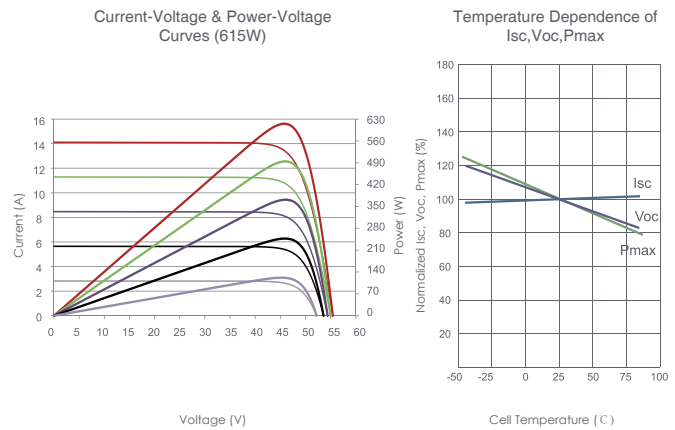
*For detailed sizes and tolerance specification, please consult detailed module drawing

Packaging Configuration

(Two pallets = One stack)

36pcs/pallets, 72pcs/stack, 576pcs/ 40'HQ Container

Electrical Performance & Temperature Dependence



Mechanical Characteristics

Cell Type	N type Mono-crystalline
No. of cells	156 (2×78)
Dimensions	2465×1134×30mm (97.05×44.65×1.18 inch)
Weight	34kg (74.96lbs)
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, 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	1000V:Staubli MC4,JK03M/2B, JK03M2/2B, Jinko PV material 1500V:Staubli MC4-EVO2:JK03M/2B, JK03M2/2B, Jinko PV material
Fire Rating	Class C

SPECIFICATIONS

Module Type	JKM640N-78HL4-BDV		JKM645N-78HL4-BDV	
	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	640Wp	482Wp	645Wp	486Wp
Maximum Power Voltage (Vmp)	48.02V	45.12V	48.17V	45.26V
Maximum Power Current (Imp)	13.33A	10.69A	13.39A	10.74A
Open-circuit Voltage (Voc)	57.34V	54.47V	57.47V	54.59V
Short-circuit Current (Isc)	13.98A	11.28A	14.04A	11.33A
Module Efficiency STC (%)	22.90%		23.07%	
Operating Temperature(°C)	-40℃~+85℃			
Maximum system voltage	1500VDC (IEC) with-v=1500v			
Maximum series fuse rating	30A			
Power Measurement tolerance	-3%~+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			
Nominal operating cell temperature (NOCT)	45±2℃			
Refer. Bifacial Factor	80±5%			

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

5%	Maximum Power (Pmax)	672Wp	677Wp
	Module Efficiency STC (%)	24.05%	24.22%
15%	Maximum Power (Pmax)	736Wp	742Wp
	Module Efficiency STC (%)	26.34%	26.53%
25%	Maximum Power (Pmax)	800Wp	806Wp
	Module Efficiency STC (%)	28.63%	28.84%

*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

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Specifications included in this datasheet are subject to change without notice.

JKM640-645N-78HL4-BDV-F7C1-EN