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Building Your Trust in Solar

Tiger Pro 54HC
405-425 Watt
MONO-FACIAL MODULE

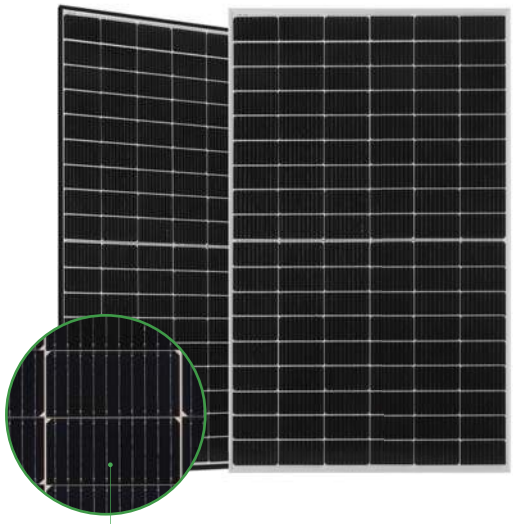
P-Type

IEC61215(2021), IEC61730(2023)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

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



MBB HC Technology

Key Features

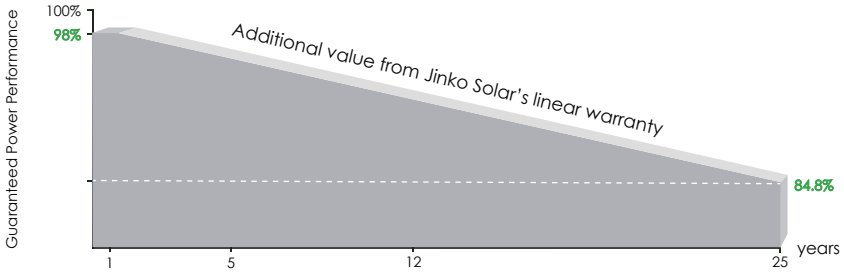
Reduced Hot Spot Loss

Optimized electrical design and lower operating current for reduced hot spot loss and better temperature coefficient.

Enhanced Mechanical Load

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

LINEAR PERFORMANCE WARRANTY

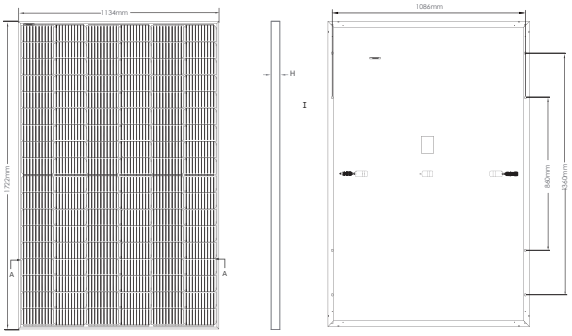


15 Year Product Warranty

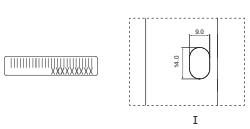
25 Year Linear Power Warranty

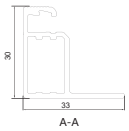
0.55% Annual Degradation Over 25 years

Engineering Drawings



Front Side Back





Length: ±2mm
Width: ±2mm
Height: ±1mm
Row Pitch: ±2mm

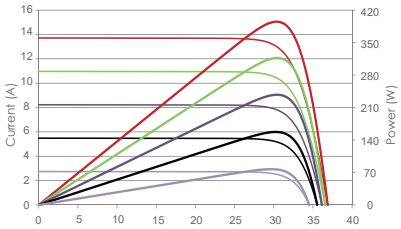
Packaging Configuration

(Two pallets = One stack)

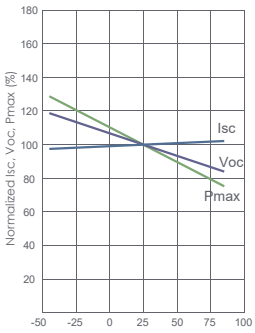
36pcs/pallets, 72pcs/stack, 936pcs/ 40'HQ Container

Electrical Performance & Temperature Dependence

Current-Voltage & Power-Voltage Curves (405W)



Temperature Dependence of Isc, Voc, Pmax



Mechanical Characteristics

Cell Type	P type Mono-crystalline
No. of cells	108 (2x54)
Dimensions	1722×1134×30mm (67.80×44.65×1.18 inch)
Weight	22.0 kg (48.50 lbs)
Front Glass	3.2mm,Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm² (+): 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 Class	Class C

SPECIFICATIONS

Module Type	JKM405M-54HL4 JKM405M-54HL4-V	JKM410M-54HL4 JKM410M-54HL4-V	JKM415M-54HL4 JKM415M-54HL4-V	JKM420M-54HL4 JKM420M-54HL4-V	JKM425M-54HL4 JKM425M-54HL4-V
	STC	STC	STC	STC	STC
Maximum Power (Pmax)	405Wp	410Wp	415Wp	420Wp	425Wp
Maximum Power Voltage (Vmp)	30.52V	30.62V	30.79V	30.91W	31.07V
Maximum Power Current (Imp)	13.27A	13.39A	13.48A	13.59A	13.68A
Open-circuit Voltage (Voc)	37.06V	37.14V	37.31V	37.43V	37.59V
Short-circuit Current (Isc)	13.85A	13.92A	14.01A	14.12A	14.22A
Module Efficiency STC (%)	20.74%	21.00%	21.25%	21.51%	21.76%
Operating Temperature(℃)	-40℃~+85℃				
Maximum system voltage	1000/1500VDC (IEC) with -V=1500V, without -V=1000V				
Maximum series fuse rating	25A				
Power measurement tolerance	-3~+3%				
Power sorting tolerance	-5W-+15W				
Temperature coefficients of Pmax	-0.35%/℃				
Temperature coefficients of Voc	-0.28%/℃				
Temperature coefficients of Isc	0.048%/℃				
Nominal operating cell temperature (NOCT)	45±2℃				

*STC: Irradiance 1000W/m² Cell Temperature 25℃ AM=1.5

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

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