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Tiger LM 72HC

435-455 Watt

MONO-FACIAL MODULE

P-Type

Positive power tolerance of 0~+3%

IEC 61215(2016), IEC 61730(2016)

ISO 9001:2015: Quality Management System

ISO 14001:2015: Environment Management System

ISO 45001:2018

Occupational health and safety management systems



MBB HC Technology

Key Features



Multi Busbar Technology

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



Reduced Hot Spot Loss

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



PID Resistance

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



Enhanced Mechanical Load

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



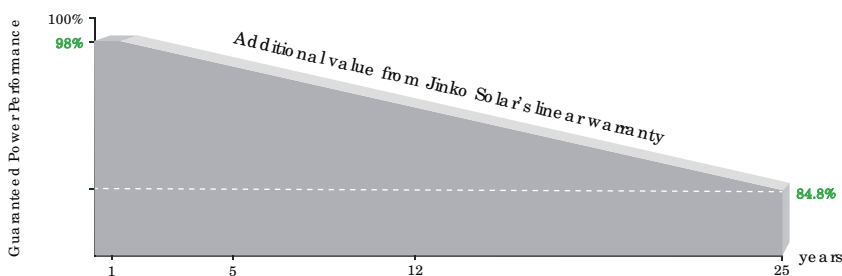
Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



POSITIVE QUALITY™
Continuous Quality Assurance

LINEAR PERFORMANCE WARRANTY

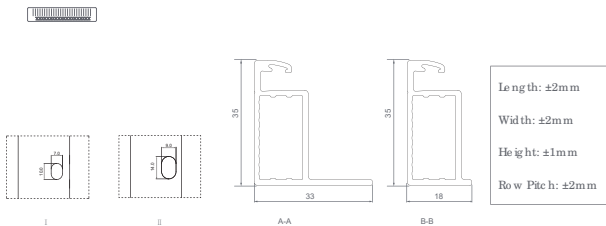
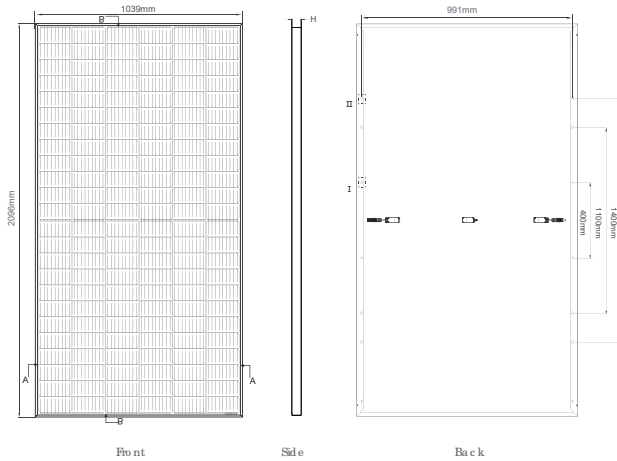


12 Year Product Warranty

25 Year Linear Power Warranty

0.55% Annual Degradation Over 25 years

Engineering Drawings



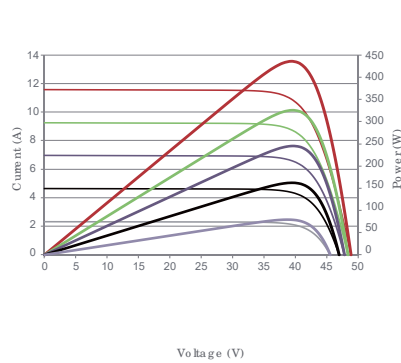
Packaging Configuration

(Two pallets = One stack)

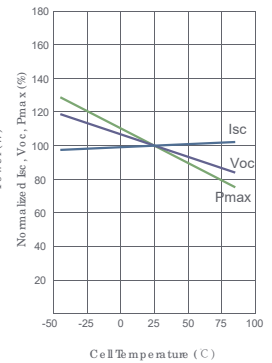
31pc s/pallets, 62pc s/stack, 682pc s/40'HQ Container

Electric Performance & Temperature Dependence

Current-Voltage & Power-Voltage Curves (445W)



Temperature Dependence of Isc, Voc, Pmax



Mechanical Characteristics

Cell Type	Mono PERC 166×166mm
No. of cells	144 (6×24)
Dimensions	2096×1039×35mm (82.52×40.91×1.38 inch)
Weight	25.1kg (55.34 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 1×4.0mm ² (+): 290mm, (-): 145mm or Customized Length

SPECIFICATIONS

Module Type	JKM435M-72HLM		JKM440M-72HLM		JKM445M-72HLM		JKM450M-72HLM		JKM455M-72HLM	
	SIC	NOCT	SIC	NOCT	SIC	NOCT	SIC	NOCT	SIC	NOCT
Maximum Power (Pmax)	435Wp	324Wp	440Wp	327Wp	445Wp	331Wp	450Wp	335Wp	455Wp	339Wp
Maximum Power Voltage (Vmp)	40.77V	37.76V	40.97V	37.89V	41.17V	38.10V	41.37V	38.31V	41.56V	38.47V
Maximum Power Current (Imp)	10.67A	8.57A	10.74A	8.64A	10.81A	8.69A	10.88A	8.74A	10.95A	8.80A
Open-circuit Voltage (Voc)	48.67V	45.84V	48.87V	46.03V	49.07V	46.22V	49.27V	46.41V	49.46V	46.59V
Short-circuit Current (Isc)	11.32A	9.14A	11.39A	9.20A	11.46A	9.26A	11.53A	9.31A	11.60A	9.37A
Module Efficiency SIC (%)	19.97%		20.20%		20.43%		20.66%		20.89%	
Operating Temperature (°C)	-40 C ~ +85 C									
Maximum System Voltage	1000/1500VDC (IEC)									
Maximum Series Fuse Rating	20A									
Power Tolerance	0~+3%									
Temperature Coefficients of Pmax	-0.35%/C									
Temperature Coefficients of Voc	-0.29%/C									
Temperature Coefficients of Isc	0.048%/C									
Nominal Operating Cell Temperature (NOCT)	45±2 C									

*SIC: 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