

Tiger LM 72HC

435-455 Watt

MONO-FACIAL MODULE

P-Type

Positive power tolerance of 0~+3%

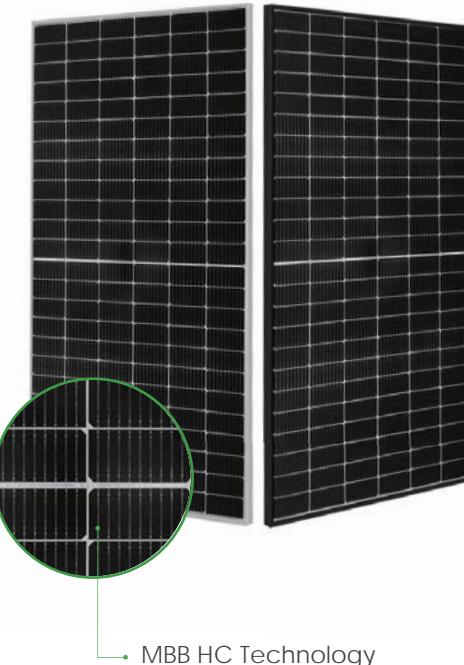
IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018

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 guarantee via optimized mass-production process and materials control.



Enhanced Mechanical Load

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

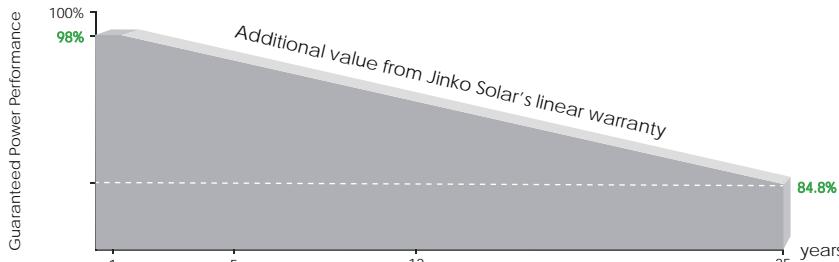


Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



LINEAR PERFORMANCE WARRANTY

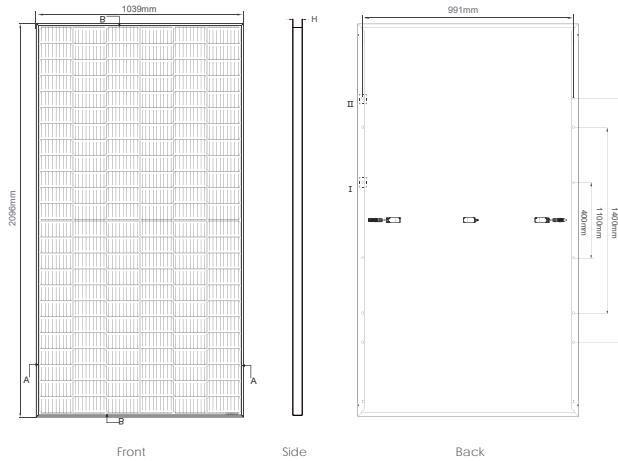


12 Year Product Warranty

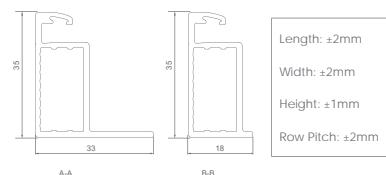
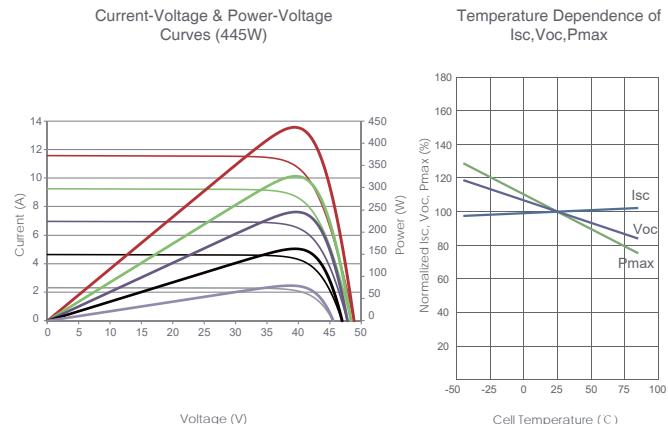
25 Year Linear Power Warranty

0.55% Annual Degradation Over 25 years

Engineering Drawings



Electrical Performance & Temperature Dependence



Packaging Configuration

(Two pallets = One stack)

31pcs/pallets, 62pcs/stack, 682pcs/40'HQ Container

Mechanical Characteristics

Cell Type	Mono PERC 166x166mm
No. of cells	144 (6x24)
Dimensions	2096x1039x35mm (82.52x40.91x1.38 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 1x4.0mm ² (+): 290mm, (-): 145mm or Customized Length

SPECIFICATIONS

Module Type	JKM435M-72HLM	JKM440M-72HLM	JKM445M-72HLM	JKM450M-72HLM	JKM455M-72HLM
	JKM435M-72HLM-V	JKM440M-72HLM-V	JKM445M-72HLM-V	JKM450M-72HLM-V	JKM455M-72HLM-V
STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	435Wp	324Wp	440Wp	327Wp	445Wp
Maximum Power Voltage (Vmp)	40.77V	37.76V	40.97V	37.89V	41.17V
Maximum Power Current (Imp)	10.67A	8.57A	10.74A	8.64A	10.81A
Open-circuit Voltage (Voc)	48.67V	45.84V	48.87V	46.03V	49.07V
Short-circuit Current (Isc)	11.32A	9.14A	11.39A	9.20A	11.46A
Module Efficiency STC (%)	19.97%		20.20%		20.43%
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	

*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