

# Tiger Pro 60HC

## 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

(Made in China/Malaysia/Vietnam/U.S)



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.



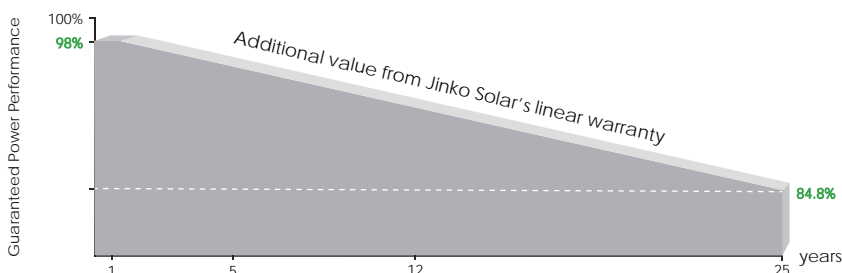
#### Enhanced Mechanical Load

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



POSITIVE QUALITY™  
Continuous Quality Assurance

## LINEAR PERFORMANCE WARRANTY

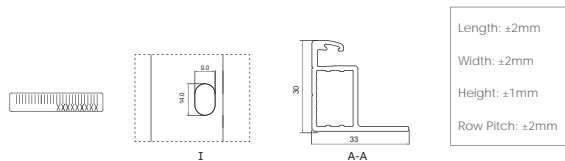
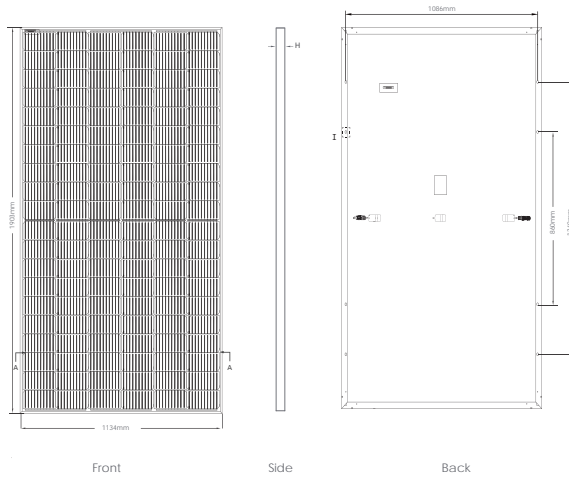


**12** Year Product Warranty

**25** Year Linear Power Warranty

**0.55%** Annual Degradation Over 25 years

## Engineering Drawings

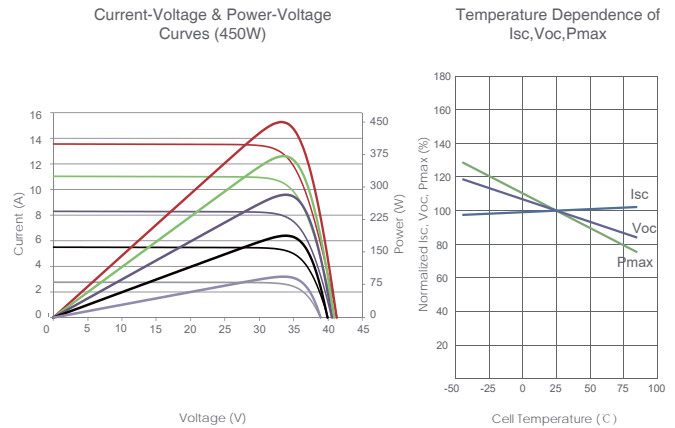


## Packaging Configuration

(Two pallets = One stack)

35pcs/pallets, 70pcs/stack, 840pcs/ 40'HQ Container

## Electrical Performance & Temperature Dependence



## Mechanical Characteristics

Cell Type	P type Mono-crystalline
No. of cells	120 (6×20)
Dimensions	1903×1134×30mm (74.92×44.65×1.18 inch)
Weight	24.2 kg (53.35 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 <sup>2</sup> (+): 290mm, (-): 145mm or Customized Length
Connector	JK03M/2B, genuine MC4 evo 2
Fire Rating	Class C

## SPECIFICATIONS

Module Type	JKM435M-60HL4-V		JKM440M-60HL4-V		JKM445M-60HL4-V		JKM450M-60HL4-V		JKM455M-60HL4-V	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	435Wp	324Wp	440Wp	327Wp	445Wp	331Wp	450Wp	335Wp	455Wp	339Wp
Maximum Power Voltage (Vmp)	33.62V	31.27V	33.72V	31.39V	33.82V	31.56V	33.91V	31.73V	34.06V	31.91V
Maximum Power Current (Imp)	12.94A	10.35A	13.05A	10.43A	13.16A	10.49A	13.27A	10.55A	13.36A	10.61A
Open-circuit Voltage (Voc)	40.94V	38.64V	41.02V	38.72V	41.10V	38.79V	41.18V	38.87V	41.33V	39.01V
Short-circuit Current (Isc)	13.67A	11.04A	13.73A	11.09A	13.79A	11.14A	13.85A	11.19A	13.93A	11.25A
Module Efficiency STC (%)	21.32%		20.39%		20.62%		20.85%		21.08%	
Operating Temperature(°C)	-40°C~+85°C									
Maximum system voltage	1500VDC (IEC)									
Maximum series fuse rating	25A									
Power tolerance	0~+3%									
Temperature coefficients of Pmax	-0.35%/°C									
Temperature coefficients of Voc	-0.28%/°C									
Temperature coefficients of Isc	0.048%/°C									
Nominal operating cell temperature (NOCT)	45±2°C									

\*STC: Irradiance 1000W/m<sup>2</sup> Cell Temperature 25°C

NOCT: Irradiance 800W/m<sup>2</sup> Ambient Temperature 20°C

AM=1.5

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Wind Speed 1m/s

\*Power Measurement Tolerance: +/-3%