

# Cheetah Plus HC 78M 420-440 Watt

MONO PERC HALF CELL MODULE

Positive power tolerance of 0~+5W

- Half Cell
- Mono PERC 78 Cell

(Made in China/Malaysia/U.S)



PERC



## KEY FEATURES



### 5 Busbar Solar Cell

5 busbar solar cell adopts new technology to improve the efficiency of modules, offers a better aesthetic appearance, making it perfect for rooftop installation.



### High Efficiency

Higher module conversion efficiency (up to 20.35%) benefit from half cell structure (low resistance characteristic).



### PID Resistance

Excellent Anti-PID performance guarantee limited power degradation for mass production.



### Low-light Performance

Advanced glass and cell surface textured design ensure excellent performance in low-light environment.



### Severe Weather Resilience

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



### Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance certified by TUV NORD.



## LINEAR PERFORMANCE WARRANTY

12 Year Product Warranty • 25 Year Linear Power Warranty

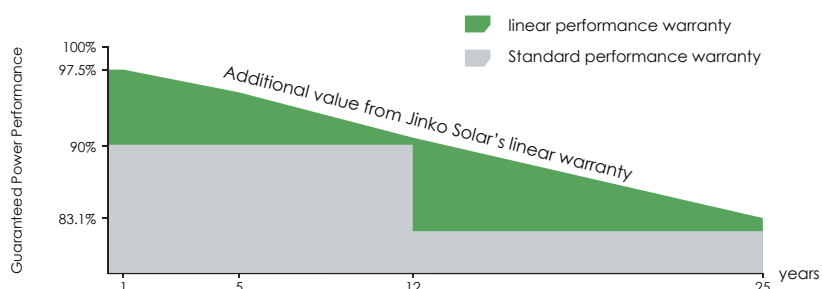


- ISO9001:2015, ISO14001:2015, ISO45001:2018 certified factory
- IEC61215, IEC61730, UL1703 certified product

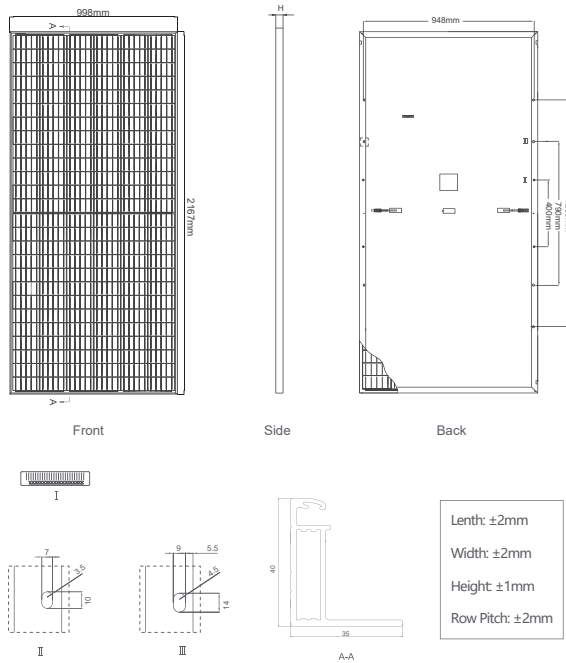
Nomenclature:

JKMxxxM-66/78H-V

Code	Cell	Code	Certification
null	Full	null	1000V
H	Half	V	1500V



## Engineering Drawings

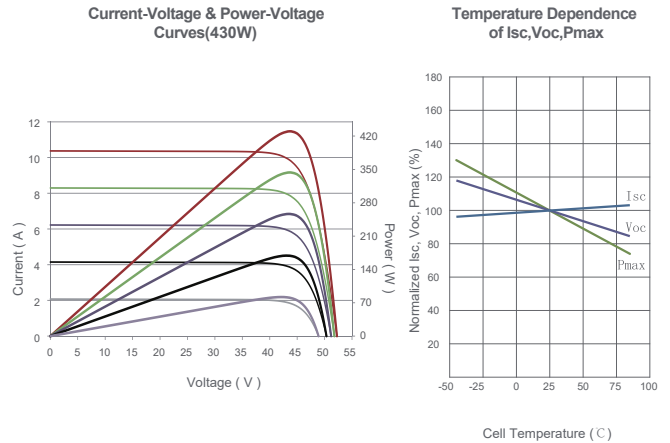


## Packaging Configuration

(Two pallets = One stack)

27pcs/pallet, 54pcs/stack, 540pcs/40' HQ Container

## Electrical Performance & Temperature Dependence



## Mechanical Characteristics

Cell Type	Mono PERC 158.75×158.75mm
No. of cells	156 (6×26)
Dimensions	2167×998×40mm (85.31×39.29 ×1.57 inch)
Weight	24.3 kg (53.57 lbs)
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP67 Rated
Output Cables	TUV 1×4.0mm <sup>2</sup> (+): 250mm, (-): 150 mm or Customized Length
Fire Rating	Class C
Connector	JK03M/1B, Genuine MC4

## SPECIFICATIONS

Module Type	JKM420M-78HB		JKM425M-78HB		JKM430M-78HB		JKM435M-78HB		JKM440M-78HB	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	420Wp	312Wp	425Wp	316Wp	430Wp	320Wp	435Wp	324Wp	440Wp	327Wp
Maximum Power Voltage (Vmp)	43.44V	39.96V	43.51V	40.08V	43.57V	40.14V	43.64V	40.20V	43.70V	40.27V
Maximum Power Current (Imp)	9.67A	7.82A	9.77A	7.89A	9.87A	7.97A	9.97A	8.05A	10.07A	8.13A
Open-circuit Voltage (Voc)	51.64V	48.64V	51.67V	48.67V	51.70V	48.70V	51.73V	48.72V	51.76V	48.75V
Short-circuit Current (Isc)	10.31A	8.33A	10.41A	8.41A	10.51A	8.49A	10.61A	8.57A	10.71A	8.65A
Module Efficiency STC (%)	19.42%		19.65%		19.88%		20.11%		20.35%	
Operating Temperature(°C)	-40°C~+85°C									
Maximum system voltage	1000VDC (IEC)									
Maximum series fuse rating	20A									
Power tolerance	0~+5W									
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 AM=1.5

NOCT: Irradiance 800W/m<sup>2</sup> Ambient Temperature 20°C AM=1.5 Wind Speed 1m/s

\* Power measurement tolerance: ± 3%  
Voc tolerance: ± 3%  
Isc tolerance: ± 4%  
sorting tolerance: 0~+5W