

# Cheetah Plus HC 78M 425-445 Watt

MONO PERC HALF CELL MODULE

Positive power tolerance of 0~+3%

- Half Cell
- Mono PERC 78 Cell



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 20.50%) 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

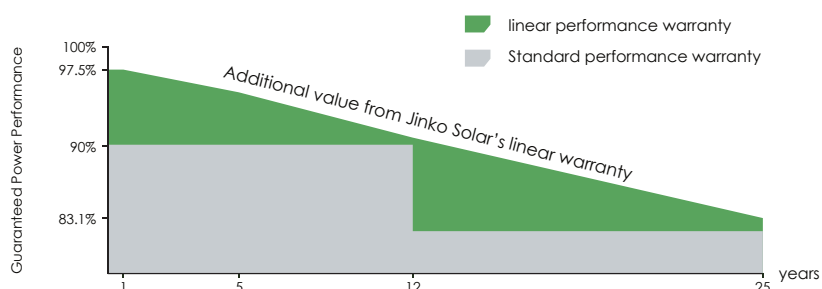


- ISO9001:2015, ISO14001:2015, ISO45001:2018 certified factory
- IEC61215, IEC61730, UL1703 certified product

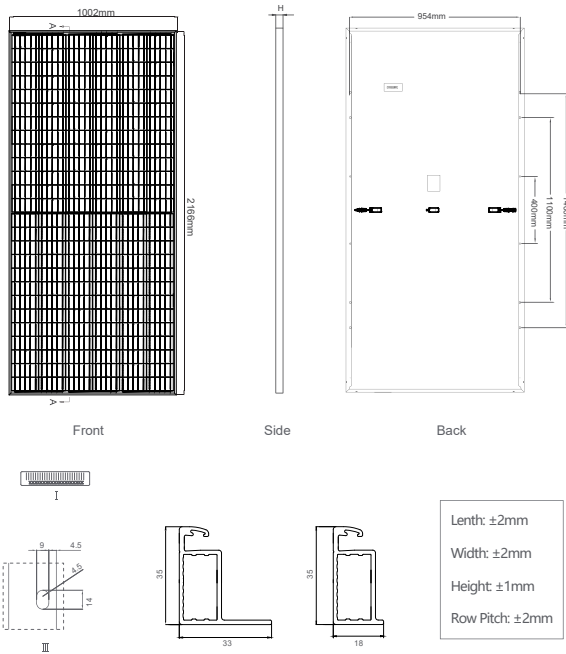
Nomenclature:

JKMxxxM-66/78H-V

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



## Engineering Drawings

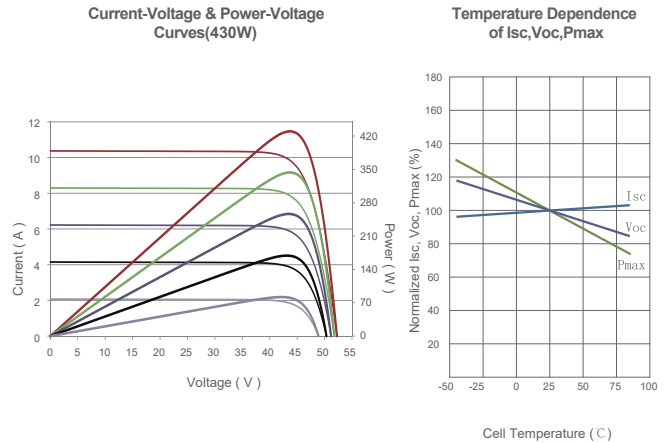


## Packaging Configuration

(Two pallets = One stack)

31pcs/pallet, 62pcs/stack, 620pcs/40' HQ Container

## Electrical Performance & Temperature Dependence



## Mechanical Characteristics

Cell Type	Mono PERC 158.75×158.75mm
No. of cells	156 (6×26)
Dimensions	2166×1002×35mm (85.28×39.45×1.38 inch)
Weight	24 kg (52.91 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> (+): 290mm, (-): 145 mm or Customized Length

## SPECIFICATIONS

Module Type	JKM425M-78H		JKM430M-78H		JKM435M-78H		JKM440M-78H		JKM445M-78H	
	JKM425M-78H-V		JKM430M-78H-V		JKM435M-78H-V		JKM440M-78H-V		JKM445M-78H-V	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	425Wp	316Wp	430Wp	320Wp	435Wp	324Wp	440Wp	327Wp	445Wp	331Wp
Maximum Power Voltage (Vmp)	43.23V	39.87V	43.49V	40.04V	43.55V	40.15V	43.65V	40.36V	43.72V	40.52V
Maximum Power Current (Imp)	9.83A	7.93A	9.89A	7.99A	9.99A	8.06A	10.08A	8.11A	10.18A	8.17A
Open-circuit Voltage (Voc)	51.43V	48.44V	51.52V	48.53V	51.61V	48.61V	51.70V	48.70V	52.04V	49.02V
Short-circuit Current (Isc)	10.48A	8.46A	10.57A	8.54A	10.67A	8.62A	10.77A	8.70A	10.84A	8.76A
Module Efficiency STC (%)	19.58%		19.81%		20.04%		20.27%		20.50%	
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	-0.28%/°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%