

# Cheetah Plus HC 78M-V 425-440 Watt

MONO PERC HALF CELL MODULE

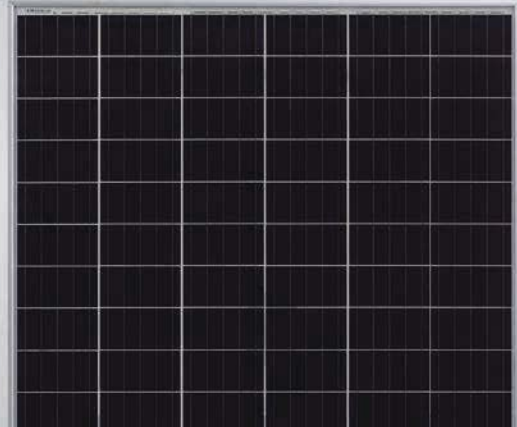
Positive power tolerance of 0~+3%

- Half Cell
- Mono PERC 78 Cell



PERC

(Draft)



## 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 Voltage

UL and IEC 1500V certified; lowers BOS costs and yields better LCOE



### High Efficiency

Higher module conversion efficiency (up to 20.37%) 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).

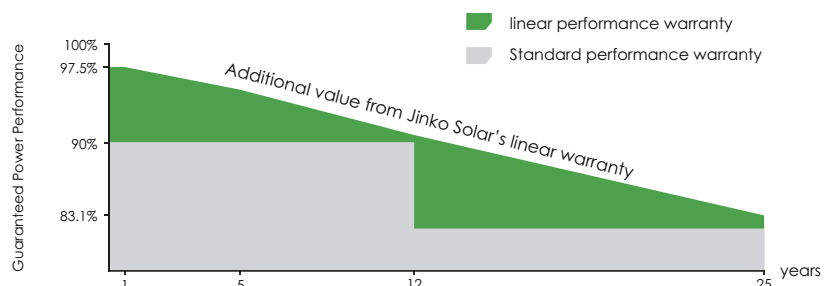


### Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance certified by TUV NORD.

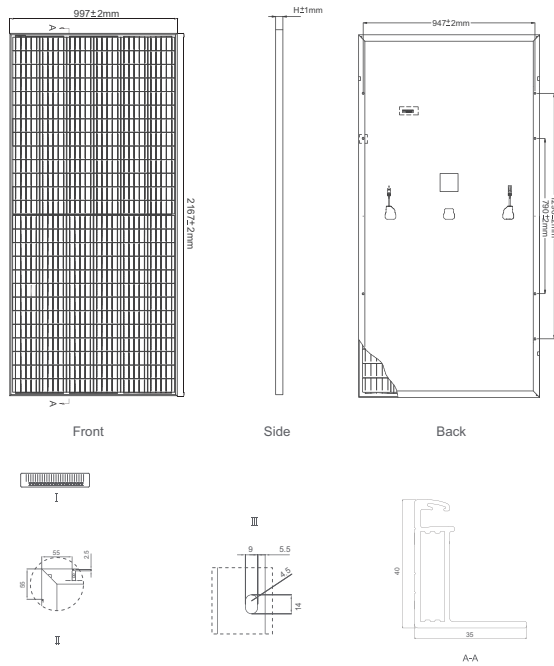
## LINEAR PERFORMANCE WARRANTY

12 Year Product Warranty • 25 Year Linear Power Warranty



- ISO9001:2015, ISO14001:2015, OHSAS18001 certified factory
- IEC61215, IEC61730, UL1703 certified product

## Engineering Drawings

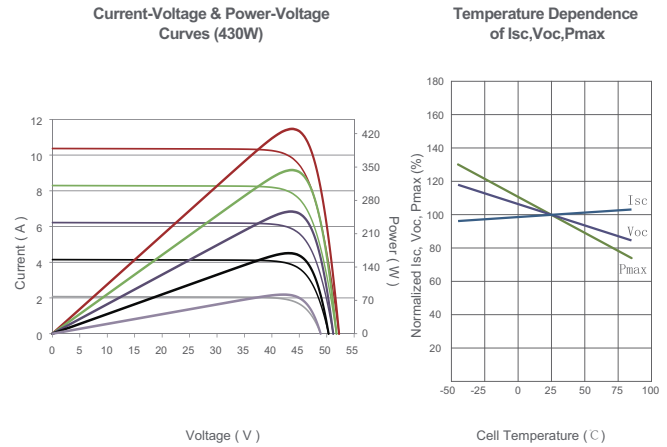


## Packaging Configuration

( 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 Half-cells	156 (6×26)
Dimensions	2167×997×40mm (85.31×39.25×1.57 inch)
Weight	24.5 kg (54.0 lbs)
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP67 Rated
Output Cables	TÜV 1x4.0mm <sup>2</sup> , Anode 290mm, Cathode 145mm or Customized Length

## SPECIFICATIONS

Module Type	JKM425M-78H-V		JKM430M-78H-V		JKM435M-78H-V		JKM440M-78H-V	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	425Wp	316Wp	430Wp	319Wp	435Wp	323Wp	440Wp	327Wp
Maximum Power Voltage (Vmp)	43.64V	40.35V	43.75V	40.51V	43.86V	40.67V	43.96V	40.88V
Maximum Power Current (Imp)	9.74A	7.82A	9.83A	7.88A	9.92A	7.94A	10.01A	7.99A
Open-circuit Voltage (Voc)	52.14V	49.11V	52.25V	49.21V	52.36V	49.32V	52.47V	49.42V
Short-circuit Current (Isc)	10.29A	8.31A	10.37A	8.38A	10.45A	8.44A	10.53A	8.50A
Module Efficiency STC (%)	19.67%		19.90%		20.13%		20.37%	
Operating Temperature (°C)	-40°C~+85°C							
Maximum System Voltage	1500VDC (IEC)							
Maximum Series Fuse Rating	20A							
Power Tolerance	0~+3%							
Temperature Coefficients of Pmax	-0.36%/°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%