

Cheetah Plus HC 78M-V

430-445 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 Voltage

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



High Efficiency

Higher module conversion efficiency (up to 20.60%) 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.

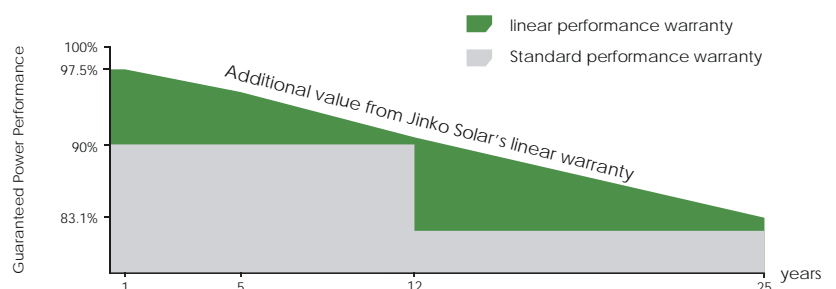


LINEAR PERFORMANCE WARRANTY

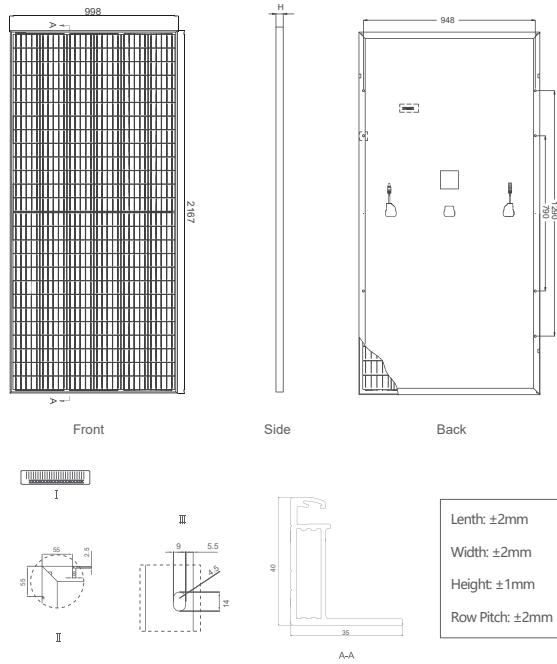
12 Year Product Warranty • 25 Year Linear Power Warranty



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



Engineering Drawings

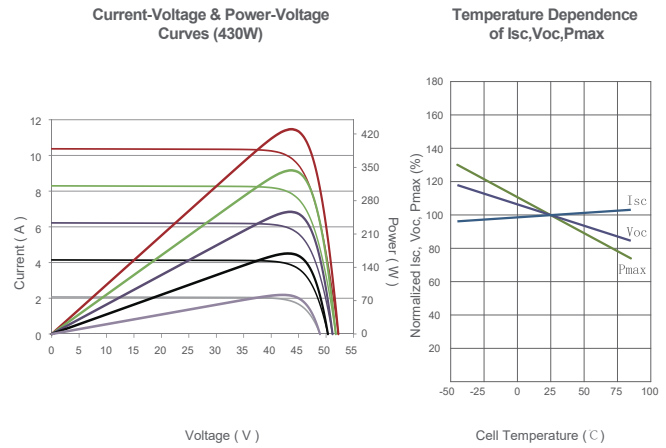


Packaging Configuration

(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	2167x998x40mm(85.31x39.29x1.57inch)
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 1x4.0mm², Anode 290mm, Cathode 145mm or Customized Length

SPECIFICATIONS

Module Type	JKM430M-78H-V		JKM435M-78H-V		JKM440M-78H-V		JKM445M-78H-V	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	430Wp	319Wp	435Wp	323Wp	440Wp	327Wp	445Wp	330Wp
Maximum Power Voltage (Vmp)	43.75V	40.00V	43.86V	40.12V	43.96V	40.28V	44.06V	40.44V
Maximum Power Current (Imp)	9.83A	7.98A	9.92A	8.05A	10.01A	8.11A	10.10A	8.17A
Open-circuit Voltage (Voc)	51.52V	48.53V	51.61V	48.61V	51.70V	48.70V	51.79V	48.78V
Short-circuit Current (Isc)	10.80A	8.52A	10.87A	8.58A	10.94A	8.63A	11.01A	8.69A
Module Efficiency STC (%)	19.88%		20.11%		20.35%		20.58%	
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	-0.35%/°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

* Power measurement tolerance: ± 3%