

MS500M6-96 SERIES

Mono-crystalline 96Cells 450W-500W

10

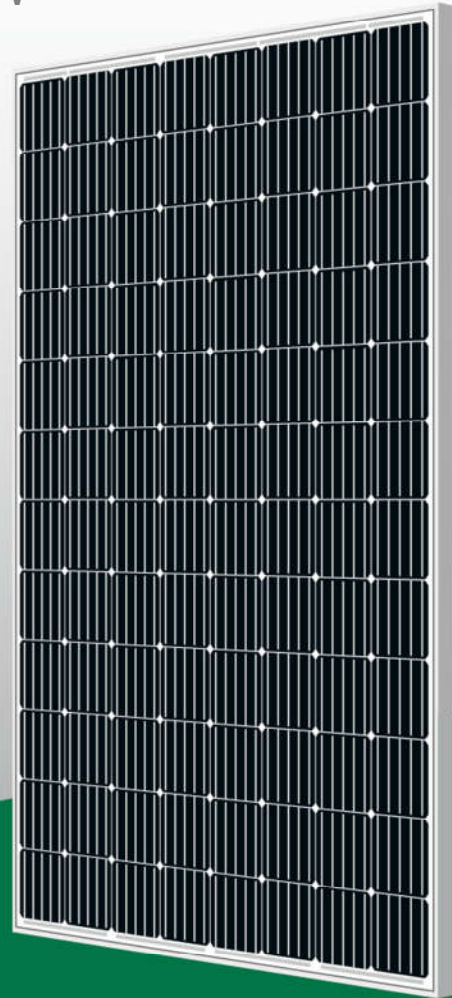
10-year product workmanship warranty

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10-year guarantee for 90% rated power

25

25-year guarantee for 80% rated power



+5Wp

Excellent power generation performance

Guaranteed 0~+5W positive rated power tolerance ensures more power generation every day

Stable mechanical performance

Passed rigorous hail test
Withstands 5400Pa snow and 2400Pa wind loads

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Low-light Performance

Advanced glass and solar cell surface texturing allow for excellent performance in low-light environments.

PID

Long weather resistance

Excellent anti-PID(Potential Induced Degradation)
Certified in fireproofing for safety

TEMP

Lower temperature coefficient

Improved temperature coefficient decreases power loss in the high temperature application.

ISO

Superior quality control

ISO 9001:2015 Quality Management System
100% EL and appearance inspection

MONOCRYSTALLINE 96 CELLS SOLAR MODULE 450W-500W

ELECTRICAL DATA(STC)

Module	MS440M6-96	MS450M6-96	MS460M6-96	MS470M6-96	MS480M6-96	MS490M6-96	MS500M6-96
Peak Power Watts(Pmax/W)	440	450	460	470	480	490	500
Power Output Tolerance(W)	0 ~ +5						
Maximum Power Voltage(Vmp/V)	47.78	47.87	48.01	48.25	48.35	48.45	48.63
Maximum Power Current(Imp/A)	9.21	9.40	9.59	9.74	9.93	10.12	10.28
Open Circuit Voltage(Voc/V)	58.50	58.57	58.75	58.82	58.89	58.93	58.95
Short Circuit Current(Isc/A)	9.40	9.73	9.78	9.90	10.04	10.67	10.87
Module Efficiency(%)	17.17	17.56	17.95	18.34	18.73	19.12	19.51

STC:Irradiance 1000W/m²,Cell Temperature 25°C,Air Mass AM1.5.

*Measuring tolerance: ±3%.

MECHANICAL DATA

Solar Cells	Monocrystalline 156.75 × 156.75 mm (6 inches)
Cell Orientation	96 cells (8 × 12)
Module Dimensions	1956 x 1310 x 45 mm (77.0 × 51.6 × 1.77 inches)
Weight	26.0 kg (57.32 lb)
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Tempered Glass
Backsheet	White
Frame	Silver / Black Anodized Aluminium Alloy
Junction Box	IP 67
Cables	4.0 mm ² 900 mm (35.4 inches)
Connector	MC4

TEMPERATURE RATINGS

NOCT (Nominal Operating Cell Temperature)	45.3°C (±2°C)
Temperature Coefficient of Pmax	- 0.420%/°C
Temperature Coefficient of Voc	- 0.336%/°C
Temperature Coefficient of Isc	+0.042%/°C

MAXIMUM RATINGS

Operational Temperature	-40~+85°C
Maximum System Voltage	1000V DC (IEC) 1000V DC (UL)
Max Series Fuse Rating	20A

DIMENSIONS OF PV MODULE(mm)

