Maysun Solar

Monocrystalline PV Module

MS(495-520)MB-50H Series



MAXIMUM POWER OUTPUT

21.6%

MAXIMUM EFFICIENCY

 $0 \sim +5W$

POSITIVE POWER TOLERANCE

Maysun Solar brand was established in 2008,our marketing center is located in the beautiful Chinese city of Hangzhou. We are a professional solar panels manufacture and wholesaler. Our business covers the production and manufacture of various types of mono solar panels and poly solar panels. We have two solar plates production bases in China and UAE, with an annual production capacity of 1G watts. Our solar panel products have been exported to more than 80 countries and regions around the world. We have overseas sales offices and warehouses in Germany, Italy, Poland, Hungary, Saudi Arabia, Indonesia,UAE,etc. We have strictly quality management system of solar PV module, we are capable of absorbing and applying advanced technologies and new processes in the photovoltaic module industry in the fastest time, bringing high-performance special solar PV modules to the market, and serve our customers.

Comprehensive Products and System Certificates

Management System



IEC 60068-2-68 Sand test IEC 62804 1500V PID test IEC 61701 Salt Spray test Severity (3)



PV Global GmbH andreas@pvglobal.de andreas@maysunsolar.eu +49(0)157 5106 5598 Stresemannallee 4B 41460 Neuss Germany



MS(495-520)MB-50H Series

POWER RANGE

495-520W





High customer value

- Lower LCOE (Levelized Cost Of Energy), reduced BOS (Balance Of System) cost, shorter payback time
- Lower guaranteed first year and annual degradation
- Designed for compatibility with existing mainstream system components
- · Higher return on Investment



High power up to 520W

- · Large area cells based on 210mm silicon wafers and 1/2-cut cell technology
- Up to 520W, 21.6% module efficiency with high density interconnect technology
- Multi-busbar technology for better light trapping effect, lower series resistance and improved current collection



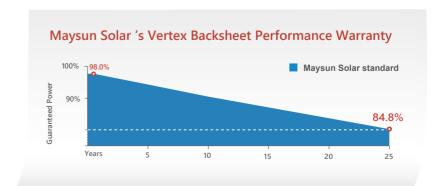
High reliability

- Minimized micro-cracks with innovative non-destructive cutting technology
- · Ensured PID resistance through cell process and module material control
- Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity areas
- Mechanical performance up to 5400 Pa positive load and 2400 Pa negative load



High energy yield

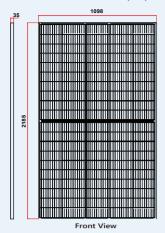
- Excellent IAM (Incident Angle Modifier) and low irradiation performance, validated by 3rd party certifications
- The unique design provides optimized energy production under interrow shading conditions

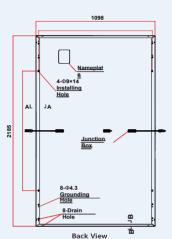


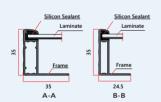
Maysun Solar

MS(495-520)MB-50H Series

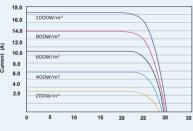
DIMENSIONS OF PV MODULE(mm)



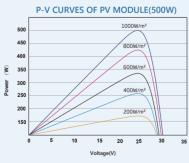




I-V CURVES OF PV MODULE(500 W)



Voltage(V)



ELECTRICAL DATA (STC)

Peak Power Watts-PMAX (Wp)*	495	500	505	510	515	520
Power Tolerance-P _{MAX} (W)			0 ~	+5		
Maximum Power Voltage-VMPP (V)	28.6	28.8	29.0	29.2	29.4	29.6
Maximum Power Current-I _{MPP} (A)	17.31	17.36	17.42	17.49	17.57	17.64
Open Circuit Voltage-Voc (V)	34.3	34.5	34.7	34.9	35.1	35.3
Short Circuit Current-kc (A)	18.47	18.55	18.63	18.71	18.79	18.87
Module Efficiency η m (%)	20.7	20.9	21.1	21.3	21.5	21.7

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5. *Measuring tolerance: ±3%

ELECTRICAL DATA (NOCT)

Maximum Power-P _{MAX} (Wp)	375	379	382	385	388	391
Maximum Power Voltage-V _{MPP} (V)	26.6	26.8	27.0	27.2	27.4	27.6
Maximum Power Current-IMPP (A)	14.09	14.14	14.17	14.20	14.25	14.28
Open Circuit Voltage-Voc (V)	32.3	32.5	32.7	32.9	33.1	33.9
Short Circuit Current-Isc (A)	14.88	14.95	15.01	15.08	15.15	15.21

NOCT: Irradiance at 800W/m, Ambient Temperature 20°C, Wind Speed 1m/s.

MECHANICAL DATA

Solar Cells	Monocrystalline
Cell Orientation	100 cells
Module Dimensions	2185×1098×35 mm (86.02×43.22×1.38 inches)
Weight	26.5 kg
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	EVA
Backsheet	White
Frame	35 mm (1.38 inches) Anodized Aluminium Alloy
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm² (0.006 inches²), Portrait: N 280mm/P 280mm(11.02/11.02inches) Length can be customized
Connector	MC4

*Please refer to regional datasheet for specified connector.

TEMPERATURE RATINGS

NOCT(Nominal Operating Cell Temperature)	43°C (±2°C)
Temperature Coe°cient of PMAX	- 0.34%/°C
Temperature Coe°cient of Voc	- 0.25%/°C
Temperature Coe°cient of Isc	0.04%/°C

WARRANTY			
	12 year Product Workmanship Warranty		
	25 year Power Warranty		
	2% first year degradation		
	0.55% Annual Power Attenuation		
	(Please refer to product warrants for details)		

(Please refer to product warranty for details)

MAXIMUMRATINGS

Operational Temperature	-40~+85°C
Maximum System Voltage	1500V DC (IEC)
	1000V DC (IEC)
Max Series Fuse Rating	20A

PACKAGING CONFIGUREATION

Modules per box: 31 pieces Modules per 40'container: 620 pieces

