Maysun Solar

Monocrystalline PV Module MS(485-510)MB-50H Series

510W MAXIMUM POWER OUTPUT

21.2% MAXIMUM EFFICIENCY

0~+5W

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





PRODUCTS	
MS(485-510)MB-50H	Series

POWER RANGE
485-510W



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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 510W

- Large area cells based on 210mm silicon wafers and 1/3-cut cell technology
- Up to 21.2% module efficiency with high density interconnect technology
- Multi-busbar technology for better light trapping effect, lower series resistance and improved current collection

High reliability

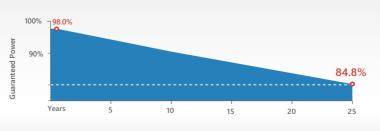
- Minimized micro-cracks with innovative non-destructive cutting technology
- Ensured PID resistance through cell process and module material control
- Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity areas
- Mechanical performance up to 5400 Pa positive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

747

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 's Vertex Backsheet Performance Warranty

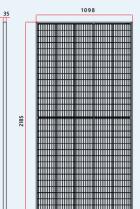


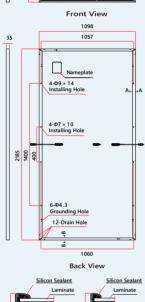
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Maysun Solar

MS(485-510)MB-150H Series

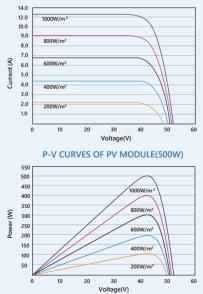
DIMENSIONS OF PV MODULE(mm)





Frame 35 A-A B-B

I-V CURVES OF PV MODULE(500 W)



ELECTRICAL DATA (STC)

Peak Power Watts-PMAX (Wp)*	485	490	495	500	505	510
Power Tolerance-P _{MAX} (W)	0 ~ +5					
Maximum Power Voltage-V _{MPP} (V)	42.2	42.4	42.6	42.8	43.0	43.2
Maximum Power Current-IMPP (A)	11.49	11.56	11.63	11.69	11.75	11.81
Open Circuit Voltage-Voc (V)	51.1	51.3	51.5	51.7	51.9	52.1
Short Circuit Current-kc (A)	12.07	12.14	12.21	12.28	12.35	12.42
Module Efficiency η m (%)	20.1	20.3	20.5	20.7	21.0	21.2

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

ELECTRICAL DATA (NOCT)

Maximum Power-P _{MAX} (Wp)	365	369	373	377	381	385
Maximum Power Voltage-V _{MPP} (V)	39.9	40.0	40.2	40.4	40.6	40.5
Maximum Power Current-IMPP (A)	9.17	9.22	9.28	9.33	9.38	9.50
Open Circuit Voltage-Voc (V)	48.1	48.2	48.4	48.6	48.8	49.0
Short Circuit Current-Isc (A)	9.73	9.78	9.84	9.90	9.95	10.01

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

MECHANICAL DATA	
Solar Cells	Monocrystalline
Cell Orientation	150 cells
Module Dimensions	2185×1098×35 mm (86.02×43.22×1.38 inches)
Weight	26.5 kg (58.4 lb)
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 4.0mm ² (0.006 inches ²), 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

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

WARRANTY

- 12 year Product Workmanship Warranty
- 25 year Power Warranty
- 2% first year degradation
- 0.55% Annual Power Attenuation

(Please refer to product warranty for details)

PACKAGING CONFIGUREATION

Modules per box: 31 pieces

Modules per 40'container: 620 pieces



subject to change without notice.