

Maysun Solar

Monocrystalline

PV Module

MS(390-410)MB-40H Series

PRODUCT: MS(390-410)MB-40H Series

PRODUCT RANGE: 390-410W

410W+

MAXIMUM POWER OUTPUT

0~+5W

POSITIVE POWER TOLERANCE

21.2 %

MAXIMUM EFFICIENCY



Small in size, big on power

- Small form factor. Generate a huge amount of energy even in limited space. Up to 410W, 21.2% module efficiency with high density interconnect technology
- Multi-busbar technology for better light trapping effect, lower series resistance and improved current collection
- Reduce installation cost with higher power bin and efficiency
- Boost performance in warm weather with lower temperature coefficient (-0.34%) and operating temperature



Universal solution for residential and C&I rooftops

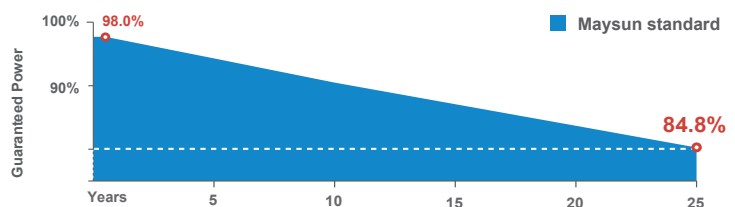
- Designed for compatibility with existing mainstream optimizers, inverters and mounting systems
- Perfect size and low weight. Easy for handling. Economy for transporting
- Diverse installation solutions. Flexible for system deployment



High Reliability

- 25 year performance warranty with lowest degradation;
- Ensured PID resistance through cell process and module material control
- Mechanical performance up to 6000 Pa positive load and 4000 Pa negative load

Maysun Solar's Backsheet Performance Warranty



Comprehensive Products and System Certificates

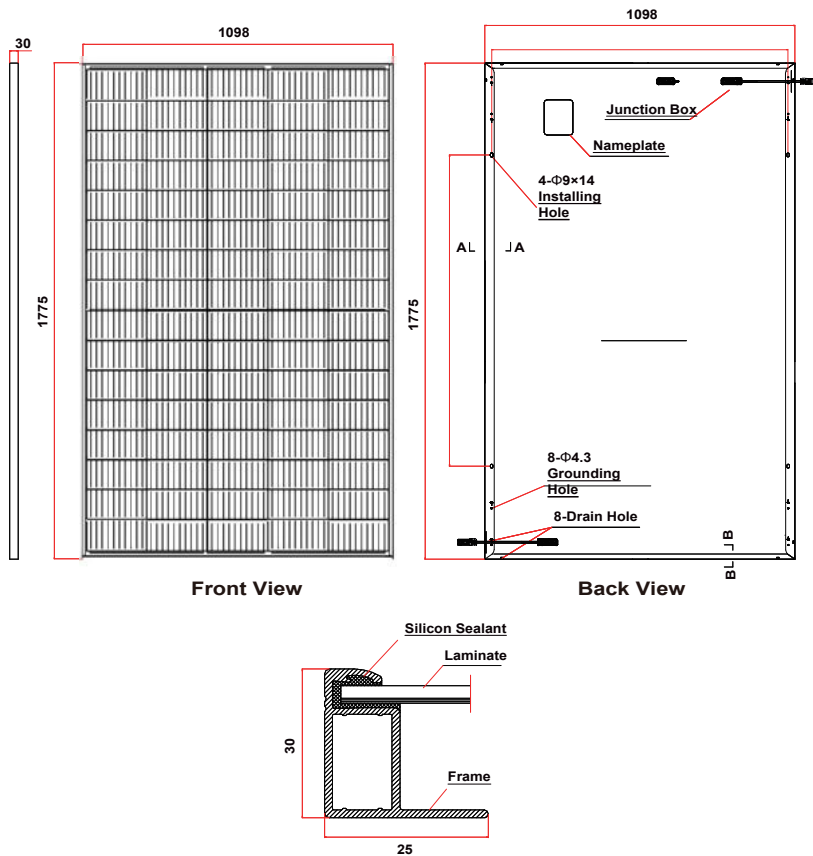


IEC61215/IEC61730/IEC61701/
IEC62716 ISO 9001: Quality
Management System

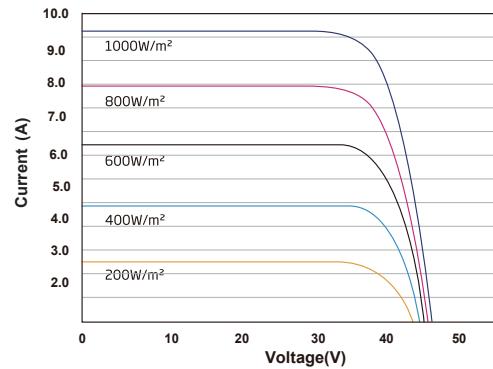


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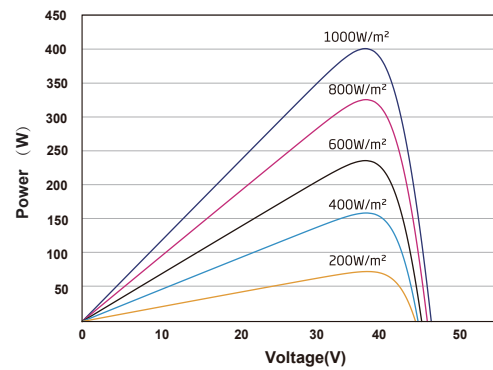
DIMENSIONS OF PV MODULE(mm)



I-V CURVES OF PV MODULE(400 W)



P-V CURVES OF PV MODULE(400W)



ELECTRICAL DATA (STC)

Peak Power Watts-P _{MAX} (Wp)*	390	395	400	405	410
Power Tolerance-P _{MAX} (W)	0 ~ +5				
Maximum Power Voltage-V _{MPP} (V)	42.63	42.94	43.3	43.65	44.0
Maximum Power Current-I _{MPP} (A)	9.15	9.20	9.24	9.28	9.32
Open Circuit Voltage-V _{OC} (V)	51.59	51.96	52.4	52.82	53.24
Short Circuit Current-I _{SC} (A)	9.70	9.75	9.79	9.83	9.88
Module Efficiency-η (%)	20.0	20.2	20.5	20.7	21.0

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

ELECTRICAL DATA (NOCT)

Maximum Power-P _{MAX} (Wp)	295	299	302	306	309
Maximum Power Voltage-V _{MPP} (V)	39.6	39.9	40.2	40.6	40.9
Maximum Power Current-I _{MPP} (A)	7.44	7.49	7.51	7.54	7.56
Open Circuit Voltage-V _{OC} (V)	47.9	48.3	48.6	49.1	49.4
Short Circuit Current-I _{SC} (A)	7.82	7.86	7.89	7.99	8.01

NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

MECHANICAL DATA

Solar Cells	Monocrystalline
No. of cells	80 cells
Module Dimensions	1775×1098×30mm (69.88×43.22×1.18inches)
Weight	21 kg
Glass	High transparency solar glass 3.2mm(0.13 inches)
Encapsulant material	EVA/POE
Backsheet	Black
Frame	Black, anodized aluminium alloy
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm" (0.006 inches"), Portrait: 700/700 mm(27.55/27.55 inches) 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 Coefficient of P _{MAX}	- 0.34%/°C
Temperature Coefficient of V _{OC}	- 0.25%/°C
Temperature Coefficient of I _{SC}	0.04%/°C

MAXIMUM RATINGS

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

WARRANTY

12 year Product Workmanship Warranty
25 year Power Warranty
2% 1st year degradation
0.55% Annual Power Attenuation

(Please refer to product warranty for details)

PACKAGING CONFIGURATION

Modules per box: 37 pieces
Modules per 40' container: 988 pieces



CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT. © 2021 Maysun Solar Co.,Ltd. All rights reserved. Specisubject to change without notice.

Website: www.maysunsolar.com