

Maysun Solar

Monocrystalline

PVModule

MS(390-405)MB-40H Series

PRODUCT: MS(390-405)MB-40H Series

PRODUCT RANGE: 390-405W

405W+

MAXIMUM POWER OUTPUT

0~+5W

POSITIVE POWER TOLERANCE

21.1 %

MAXIMUM EFFICIENCY



Small in size, big on power

- Small form factor. Generate a huge amount of energy even in limited space. Up to 405W, 21.1% 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

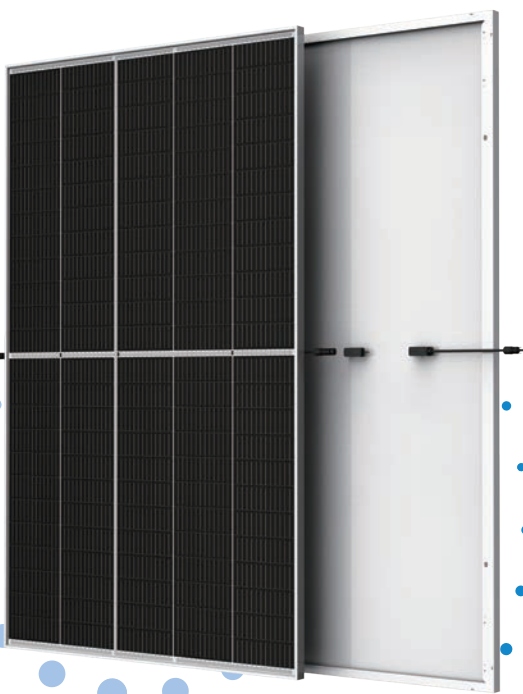
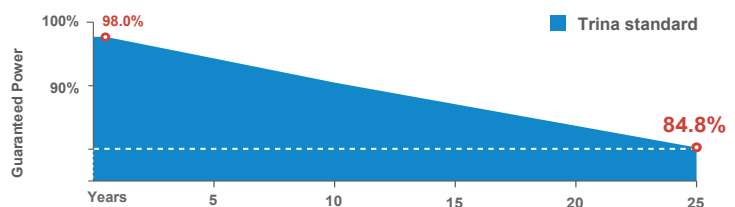
- Designed for compatibility with existing mainstream optimizers, inverters and mounting systems
- Perfect size and low weight. Easy for handling. Economy for transporting
- Diverse installation solutions. Flexible for system deployment



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

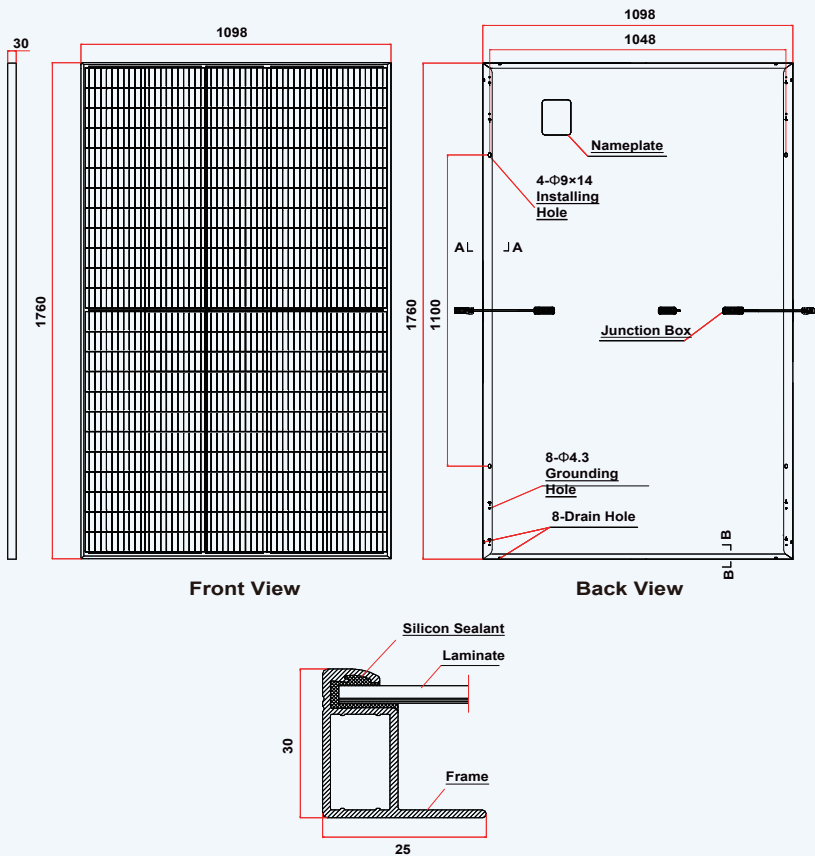


IEC61215/IEC61730/IEC61701/
IEC62716 ISO 9001: Quality
Management System

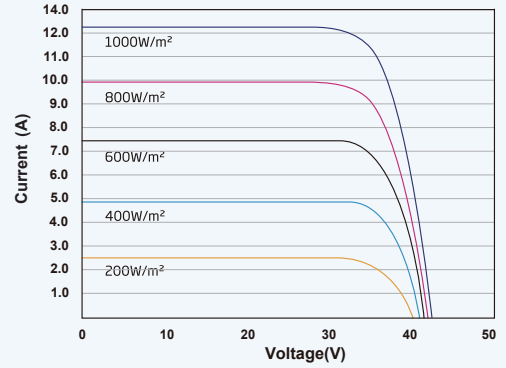


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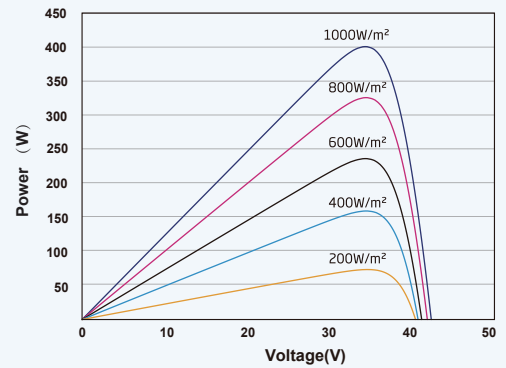
DIMENSIONS OF PV MODULE(mm)



I-V CURVES OF PV MODULE(400 W)



P-V CURVES OF PV MODULE(400W)



ELECTRICAL DATA (STC)

Parameter	390	395	400	405
Peak Power Watts- P_{MAX} (Wp)*				
Power Tolerance- P_{MAX} (W)		0 ~ +5		
Maximum Power Voltage- V_{MPP} (V)	33.8	34.0	34.2	34.4
Maximum Power Current- I_{MPP} (A)	11.54	11.62	11.70	11.77
Open Circuit Voltage- V_{OC} (V)	40.8	41.0	41.2	41.4
Short Circuit Current- I_{SC} (A)	12.14	12.21	12.28	12.34
Module Efficiency- η (%)	20.3	20.5	20.8	21.1

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

ELECTRICAL DATA (NOCT)

Parameter	295	298	302	306
Maximum Power- P_{MAX} (Wp)				
Maximum Power Voltage- V_{MPP} (V)	31.8	32.0	32.2	32.5
Maximum Power Current- I_{MPP} (A)	9.26	9.32	9.38	9.41
Open Circuit Voltage- V_{OC} (V)	38.4	38.6	38.8	38.9
Short Circuit Current- I_{SC} (A)	9.78	9.84	9.90	9.95

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

MECHANICAL DATA

Solar Cells	Monocrystalline
No. of cells	120 cells
Module Dimensions	1754×1096×30 mm (69.06×43.15×1.18 inches)
Weight	21.0 kg (46.3 lb)
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant material	EVA/POE
Backsheet	White
Frame	30mm (1.18 inches) Anodized Aluminium Alloy
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm" (0.006 inches"), Portrait: 280/280 mm(11.02/11.02 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 Coe ^o cient of P_{MAX}	- 0.34%/°C
Temperature Coe ^o cient of V_{OC}	- 0.25%/°C
Temperature Coe ^o cient 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: 36 pieces
- Modules per 40' container: 936 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