

# Maysun Solar

Monocrystalline

PVModule

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

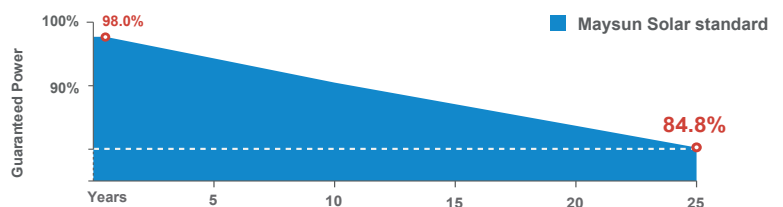


### High Reliability

- 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

### PV Global GmbH

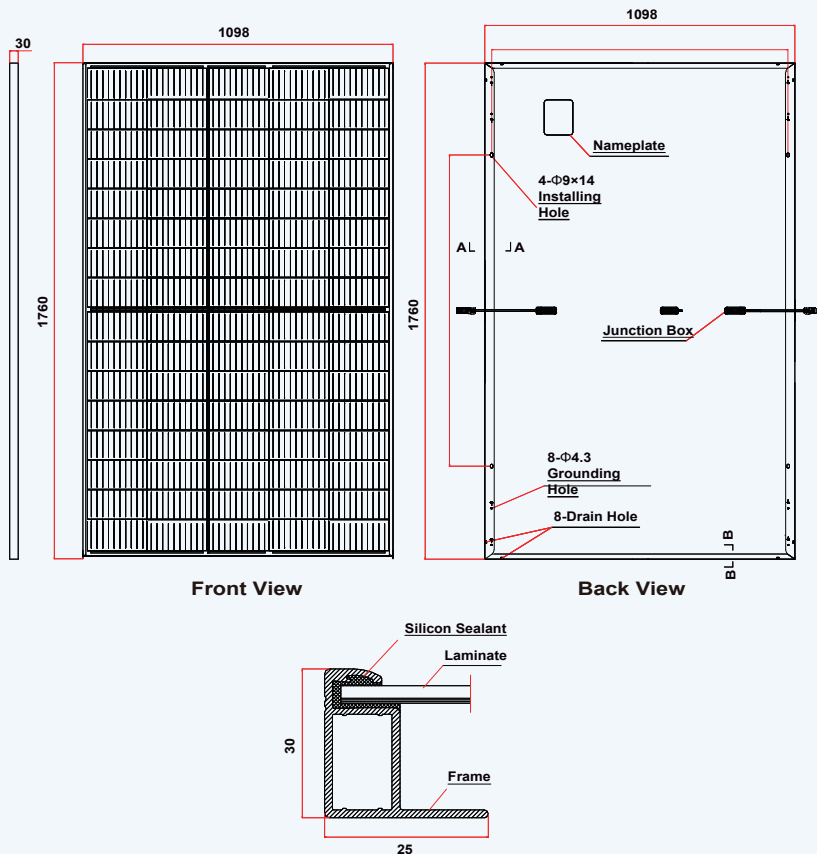
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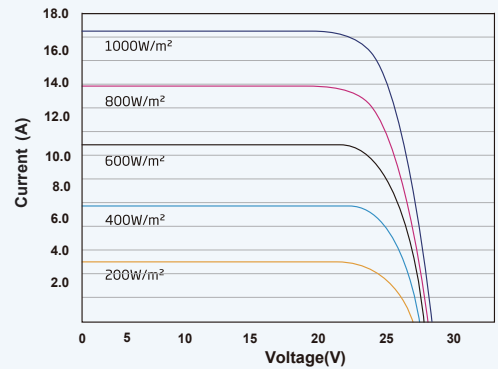


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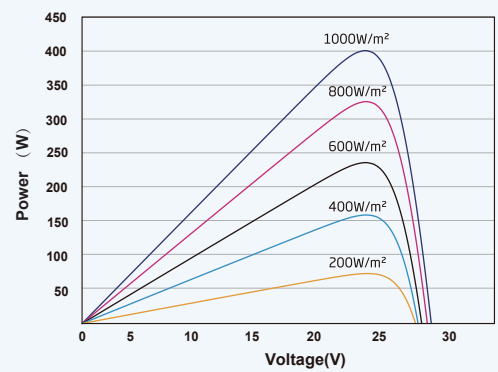
## DIMENSIONS OF PV MODULE(mm)



## 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)	24.0	24.2	24.4	24.6	24.8
Maximum Power Current- $I_{MPP}$ (A)	16.26	16.32	16.39	16.45	16.54
Open Circuit Voltage- $V_{OC}$ (V)	28.9	29.1	29.4	29.6	29.8
Short Circuit Current- $I_{SC}$ (A)	17.26	17.33	17.40	17.47	17.51
Module Efficiency- $\eta$ (%)	20.2	20.5	20.7	21.0	21.2

STC: Irradiance 1000W/m<sup>2</sup>, 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)	22.3	22.5	22.7	22.9	23.1
Maximum Power Current- $I_{MPP}$ (A)	13.22	13.27	13.33	13.37	13.38
Open Circuit Voltage- $V_{OC}$ (V)	27.2	27.5	27.7	27.9	28.1
Short Circuit Current- $I_{SC}$ (A)	13.91	13.96	14.02	14.07	14.13

NOCT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s.

## MECHANICAL DATA

Solar Cells	Monocrystalline
No. of cells	80 cells
Module Dimensions	1760×1098×30mm (69.29×43.22×1.18inches)
Weight	21.5 kg
Glass	High transparency solar glass 3.2mm[0.13 inches]
Encapsulant material	EVA/POE
Backsheet	White
Frame	Silver, 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 <sup>n</sup> cient of $P_{MAX}$	- 0.34%/°C
Temperature Coe <sup>n</sup> cient of $V_{OC}$	- 0.25%/°C
Temperature Coe <sup>n</sup> 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

## PV Global GmbH

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

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