MS(390-410)MB-40H Silver Frame

390/395/400/405/410 WP







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
- · Higher return on Investment



High energy yield

- Excellent IAM(Incidet Angle Modifier) and low irradiation performance, validated by 3rd party certifications
- · The unique design provides optimized energy production under inter-rowshading conditions



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
- · Class-C fire safety test passed



APPLICATIONS >>





On-grid residential roof-tops

On-grid commercial/ industrial roof-tops



High power up to 410W

- 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



21.2%

POSITIVE POWER TOLERANCE

~+5W











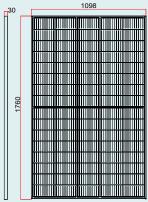




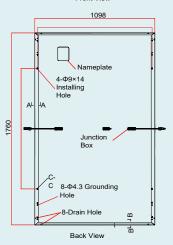
Maysun Solar

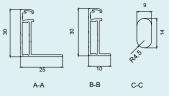
MS(390-410)MB-40H Silver Frame

DIMENSIONS OF PV MODULE(mm)

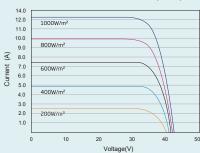


Front View

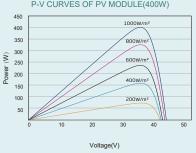




I-V CURVES OF PV MODULE(400W)



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)	33.8	34.0	34.2	34.4	34.6	
Maximum Power Current-I _{MPP} (A)	11.54	11.62	11.70	11.77	11.84	
Open Circuit Voltage-Voc (V)	40.8	41.0	41.2	41.4	41.6	
Short Circuit Current-Isc (A)	12.14	12.21	12.28	12.34	12.41	
Module Efficiency η m (%)	20.3	20.5	20.8	21.1	21.2	

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

ELECTRICAL DATA (NOCT)

Maximum Power-P _{MAX} (Wp)	295	298	302	306	310	
Maximum Power Voltage-V _{MPP} (V)	31.8	32.0	32.2	32.5	32.8	
Maximum Power Current-I _{MPP} (A)	9.26	9.32	9.38	9.41	9.45	
Open Circuit Voltage-Voc (V)	38.4	38.6	38.8	38.9	39.1	
Short Circuit Current-Isc (A)	9.78	9.84	9.90	9.95	9.99	

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

MECHANICAL DATA

Solar Cells	Monocrystalline
Cell Orientation	120 cells (5 x 24)
Module Dimensions	1760×1098×30 mm (69.29×43.22×1.18 inches)
Weight	21.5 kg
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	EVA
Backsheet	White
Frame	30 mm(1.18 inches) Silver, anodized aluminium alloy
J-Box	IP 68 rated (3 bypass diodes)
Cables	Photovoltaic Technology Cable 4.0mm² (0.006 inches²) Portrait: N 1200mm/P 1200mm(47.2/47.2 inches) Length can be customized
Connector	MC4 Compatible

*Please refer to regional datasheet for specified connector

TEMPERATURE RATINGS

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

WARRANTY

15 year Product Workmanship Warranty 25 year Power Warranty 2.5% first year degradation 0.5% Annual Power Attenuation

*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 pallet: 37 pieces Modules per 40' container: 962 pieces



CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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Website: www.maysunsolar.com