MS(390-410)MB-40H Full Black

390/395/400/405/410 WP







Better appearance

- · Full-black tone makes the modules blend perfectly with the building roof, ideal for residential roofs and BIPVs
- · Cleaner and more aesthetic than traditional modules and complements your home's architectural style
- The new layout design is uniform overall, and the vision is extremely beautiful



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 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



APPLICATIONS >>



On-grid residential

roof-tops



On-grid commercial/ industrial roof-tops



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















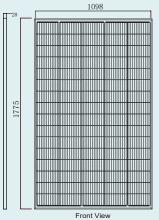
21%

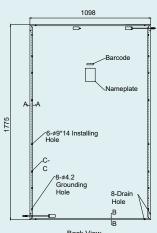
POSITIVE POWER TOLERANCE

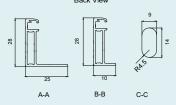
~+5W



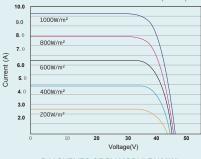
DIMENSIONS OF PV MODULE(mm)

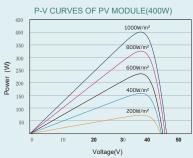






I-V CURVES OF PV MODULE(400W)





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-Voc (V)	51.59	5196	52.4	52.82	53.24	
Short Circuit Current-Isc (A)	9.70	9.75	9.79	9.83	9.88	
Module Efficiency η m (%)	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-Voc (V)	47.9	48.3	48.6	49.1	49.4	
Short Circuit Current-Isc (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
Cell Orientation	80 cells
Module Dimensions	1775x1098x28 mm (69.88x43.22x1.10 inches)
Weight	21 kg
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	EVA
Backsheet	Black
Frame	28 mm(1.10 inches) Black, anodized aluminium alloy
J-Box	IP 68 rated (3 bypass diodes)
Cables	Photovoltaic Technology Cable 4.0mm² (0.006 inches²) Portrait: N 700mm/P 700mm(27.55/27.55 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	

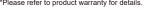
*Please refer to product warranty for details.

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: 39 pieces Modules per 40' container: 1014 pieces





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