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 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













MAXIMUN EFFICIENCY

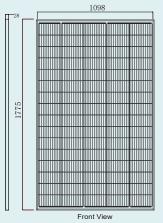
21%

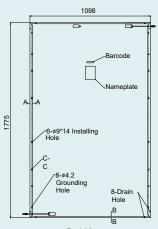
POSITIVE POWER TOLERANCE

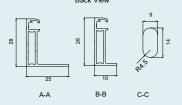
~+5W



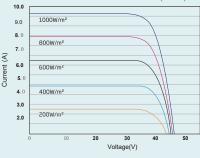
DIMENSIONS OF PV MODULE(mm)

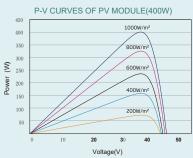






I-V CURVES OF PV MODULE(400W)





ELECTRICAL DATA (STC)

Peak Power Watts-PMAX (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	1775mm x 1098mm x 28mm
Weight	21kg
Glass	3.2 mm High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	EVA
Backsheet	Black
Frame	28mm 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

*Please refer to regional datasheet for specified connector.

TEMPERATURE RATINGS

NOCT(Nominal Operating Cell Temperature)	43°C (±2°C)
Temperature Coe°cient of P _{MAX}	- 0.34%/°C
Temperature Coe°cient of Voc	- 0.25%/°C
Temperature Coe°cient 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



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

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