MS(390-410)MB-54H 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

























MAXIMUM EFFICIENCY

21.00%

POSITIVE POWER TOLERANCE

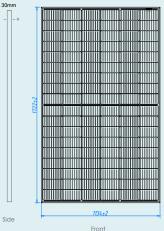
~+5W

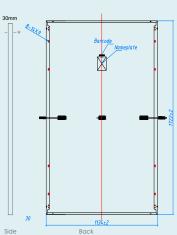


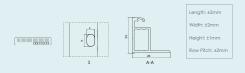
Maysun Solar

MS(390-410)MB-54H Full Black

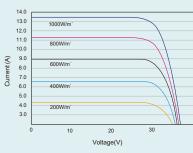
DIMENSIONS OF PV MODULE(mm)



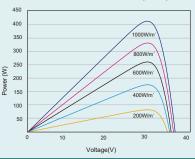




I-V CURVES OF PV MODULE(410W)



P-V CURVES OF PV MODULE(410W)



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)	30.22	30.32	30.42	30.52	30.62	
Maximum Power Current-I _{MPP} (A)	12.91	13.03	13.15	13.27	13.39	
Open Circuit Voltage-Voc (V)	36.10	36.18	36.27	36.35	36.42	
Short Circuit Current-Isc (A)	13.64	13.71	13.78	13.85	13.92	
Module Efficiency η m (%)	20.18	20.23	20.48	20.74	21.00	

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

ELECTRICAL DATA (NOCT)

Maximum Power-P _{MAX} (Wp)	290	294	298	301	305	
Maximum Power Voltage-V _{MPP} (V)	28.11	28.26	28.42	28.56	28.72	
Maximum Power Current-IMPP (A)	10.33	10.40	10.47	10.55	10.62	
Open Circuit Voltage-Voc (V)	34.76	34.83	34.90	34.98	35.05	
Short Circuit Current-Isc (A)	11.01	11.07	11.13	11.19	11.24	

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

MECHANICAL DATA

Solar Cells	Monocrystalline
Cell Orientation	108 cells
Module Dimensions	1722×1134×30mm (67.8×44.65×1.18 inches)
Weight	22 kg
Glass	3.2mm,Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Encapsulant Material	EVA/POE
Backsheet	Black
Frame	30 mm(1.18 inches) Black, anodized aluminium alloy
J-Box	IP 68 rated (3 bypass diodes)
Cables	Photovoltaic Technology Cable 4.0mm² (0.006 inches²) Portrait: N 1000mm/P 1000mm 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 P _{MAX}	- 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	25A

PACKAGING CONFIGUREATION

Modules per pallet: 37 pieces

Modules per 40' container: 962 pieces



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

© 2023 Maysun Solar All rights reserved. Specifications included in this datasheet are subject to change without notice.

Website: www.maysunsolar.com

