Mono PERC 182mm 108 Cells

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

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

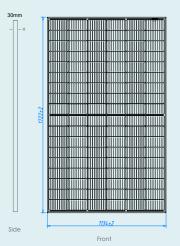


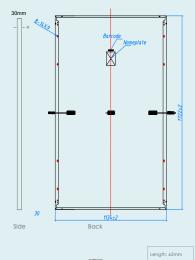


Maysun Solar

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

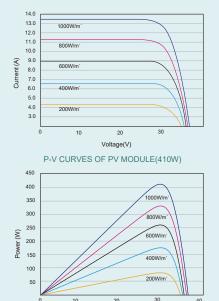
DIMENSIONS OF PV MODULE(mm)





Height: ±1mr

I-V CURVES OF PV MODULE(410W)



Voltage(V)

ELECTRICAL DATA (STC) Peak Power Watts-PMAX (Wp)* 390 395 400 405 410 Power Tolerance-PMAX (W) 0~+5 Maximum Power Voltage-VMPP (V) 30.22 30.32 30.42 30.52 30.62 Maximum Power Current-IMPP (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 ηm (%) 20.18 20.23 20.48 20.74 21.00 STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5. *Measuring tolerance: ±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-I _{MPP} (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 300mm/P 300mm(11.8/11.8 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

MAXIMUMRATINGS

PACKAGING CONFIGUREATION

Modules per 40' container: 962 pieces

Modules per pallet: 37 pieces

Operational Temperature	- 40 ~ +85°C
Maximum System Voltage	1500V DC (IEC)
	1000V DC (IEC)
Max Series Fuse Rating	25A

- WARRANTY
- 15 yea
- 25 year Power Warranty
- 2.5% first year degradation

Operational Temperature	- 40 ~ +85℃
Maximum System Voltage	1500V DC (IEC)
	1000V DC (IEC)
Max Series Fuse Rating	25A

ar	Product	Workmanship	Warranty	

- 0.5% Annual Power Attenuation

*Please refer to product warranty for details.



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

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Website: www.maysunsolar.com