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



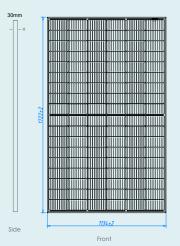
On-grid commercial/ industrial roof-tops

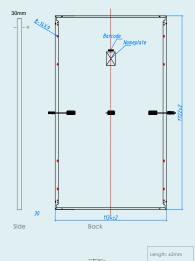


Maysun Solar

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

DIMENSIONS OF PV MODULE(mm)

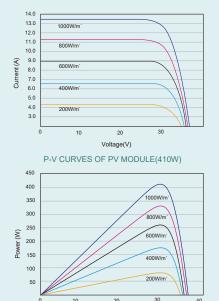




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R Width: ±2mm Height: ±1mm Row Pitch: ±2

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

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

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.

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