TH(390-410)PM5-60SB 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







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
- · 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

20.9%

POSITIVE POWER TOLERANCE

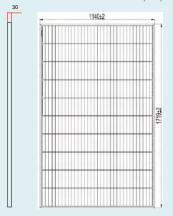
~+5W

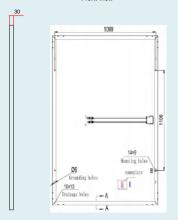


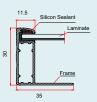
Maysun Solar

TH(390-410)PM5-60SB Full Black

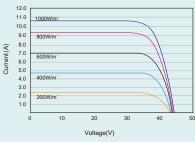
DIMENSIONS OF PV MODULE(mm)



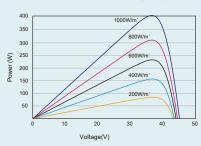




I-V CURVES OF PV MODULE(400W)



P-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)	38.5	38.5	38.6	38.7	38.8	
Maximum Power Current-I _{MPP} (A)	10.13	10.26	10.36	10.47	10.57	
Open Circuit Voltage-Voc (V)	46.3	46.3	46.4	46.5	46.6	
Short Circuit Current-Isc (A)	10.87	10.92	10.97	11.02	11.07	
Module Efficiency η m (%)	19.9	20.2	20.4	20.7	20.9	

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

ELECTRICAL DATA (NOCT)

Maximum Power-P _{MAX} (Wp)	294	297	301	305	309	
Maximum Power Voltage-V _{MPP} (V)	36.7	36.7	36.8	36.9	37.0	
Maximum Power Current-I _{MPP} (A)	8.00	8.10	8.18	8.27	8.35	
Open Circuit Voltage-Voc (V)	44.1	44.1	44.2	44.3	44.4	
Short Circuit Current-Isc (A)	8.77	8.81	8.85	8.89	8.93	

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

MECHANICAL DATA

Solar Cells	Monocrystalline
Cell Orientation	340 cells (34× 10)
Module Dimensions	1719×1140×30 mm (67.68×44.88×1.18 inches)
Weight	22 kg
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Heat Strengthened 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(39.37/39.37 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

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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: 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