# TH(390-410)PM5-60SB **Black Frame**

390/395/400/405/410 WP







## 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
- · Higher return on Investment



# High energy yield

- Excellent IAM(Incidet Angle Modifier) and low irradiation performance, validated by 3rd party certifications
- Better anti-shading performance and lower operating temperature
- · Low shading loss and full parallel circuit layout bring more effective power generation



# 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





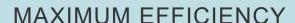


On-grid commercial/ industrial roof-tops



## High power up to 410W

- · Large area cells based on 166mm silicon wafers and shingled cell technology
- Up to 20.9% module efficiency with high density interconnect technology
- Multi-busbar technology for better light trapping effect lower series resistance and improved current collection
- · Innovative structure, low temperature bonding, high density layout, better aesthetics



20.9%

POSITIVE POWER TOI FRANCE

~+5W









APPLICATIONS >>



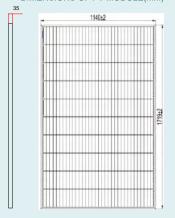




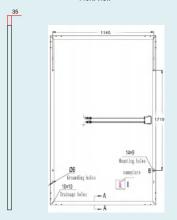
# **Maysun Solar**

## TH(390-410)PM5-60SB Black Frame

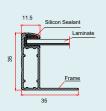
#### DIMENSIONS OF PV MODULE(mm)



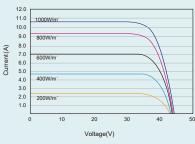
Front View



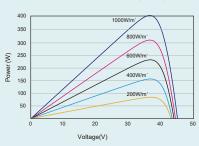
Back View



#### I-V CURVES OF PV MODULE(400W)



#### P-V CURVES OF PV MODULE(400W)



#### ELECTRICAL DATA (STC)

Peak Power Watts-P <sub>MAX</sub> (Wp)*	390	395	400	405	410	
Power Tolerance-P <sub>MAX</sub> (W)			0 ~ +5			
Maximum Power Voltage-V <sub>MPP</sub> (V)	38.5	38.5	38.6	38.7	38.8	
Maximum Power Current-IMPP (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 <sub>MAX</sub> (Wp)	294	297	301	305	309	
Maximum Power Voltage-V <sub>MPP</sub> (V)	36.7	36.7	36.8	36.9	37.0	
Maximum Power Current-I <sub>MPP</sub> (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	White
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

15 year Product Workmanship Warranty
25 year Power Warranty
2.5% first year degradation
0.5% Annual Power Attenuation

#### 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: 31 pieces

Modules per 40' container: 806 pieces

\*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