Mono PERC 166mm 340 Cells

# 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 components
- 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

# 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

## MAXIMUM EFFICIENCY

20.9% POSITIVE POWER TOLERANCE 0 ~+5W



## APPLICATIONS >>



On-grid residential

roof-tops



On-grid commercial/ industrial roof-tops



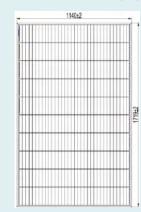


# **Maysun Solar**

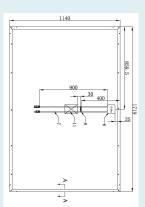
## TH(390-410)PM5-60SB Black Frame

#### DIMENSIONS OF PV MODULE(mm)

30



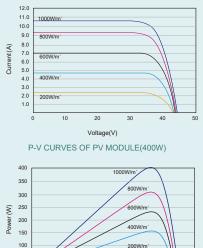
Front View



Back View

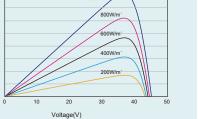


I-V CURVES OF PV MODULE(400W)



50

avsun



#### ELECTRICAL DATA (STC)

Peak Power Watts-P <sub>MAX</sub> (Wp)*	390	395	400	405	410	
Power Tolerance-PMAX (W)			0 ~ +5			
Maximum Power Voltage-V <sub>MPP</sub> (V)	38.5	38.5	38.6	38.7	38.8	
Maximum Power Current-I <sub>MPP</sub> (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 $\eta m (\%)$	19.9	20.2	20.4	20.7	20.9	
STC: Irradiance 1000W/m <sup>2</sup> , 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/m<sup>2</sup>, 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
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 900mm/P 900mm(35.43/35.43 inches) Length can be customized
Connector	MC4 Compatible

\*Please refer to regional datasheet for specified connector.

#### TEMPERATURE RATINGS

WARRANTY

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

15 year Product Workmanship Warranty

### - 40 ~ +85°C **Operational Temperature** Maximum System Voltage

MAXIMUMRATINGS

Maximum System Voltage	1500V DC (IEC)
	1000V DC (IEC)
Max Series Fuse Rating	20A

## PACKAGING CONFIGUREATION

Modules per pallet: 37pieces

Modules per 40' container: 962 pieces

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT. © 2021 Maysun Solar Co., Ltd. All rights reserved. Specifications included in this datasheet are subject to

change without notice.

25 year Power Warranty

2.5% first year degradation

0.5% Annual Power Attenuation

\*Please refer to product warranty for details.

Website: www.maysunsolar.com