

Mono PERC 166mm 120 Cells

# MS(360-380)MB-60H Full Black

360/365/370/375/380 WP



## APPLICATIONS >>



On-grid residential roof-tops



On-grid commercial/ industrial roof-tops



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## 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 (Incident Angle Modifier) and low irradiation performance, validated by 3rd party certifications
- The unique design provides optimized energy production under inter-row shading conditions



## High reliability

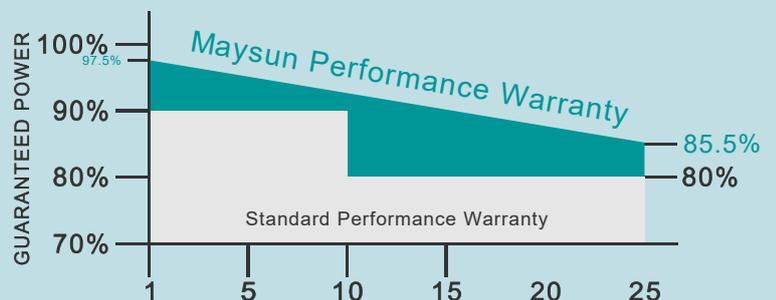
- Minimized micro-cracks with innovative non-destructive cutting technology
- Ensured PID resistance through cell process and module material control
- Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity areas
- Mechanical performance up to 5400 Pa positive load and 2400 Pa negative load
- Class-C fire safety test passed

## MAXIMUM EFFICIENCY

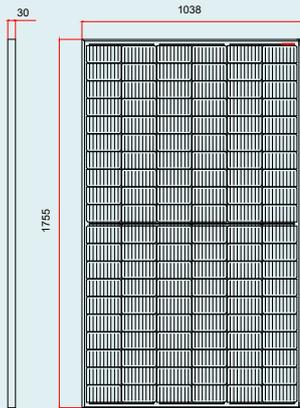
# 20.7%

## POSITIVE POWER TOLERANCE

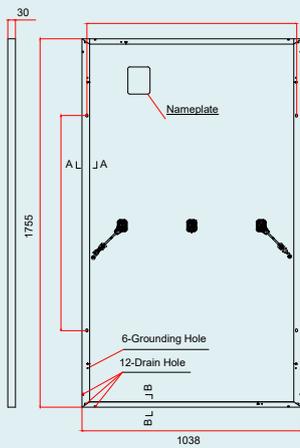
# 0 ~ +5W



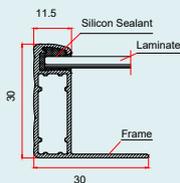
### DIMENSIONS OF PV MODULE(mm)



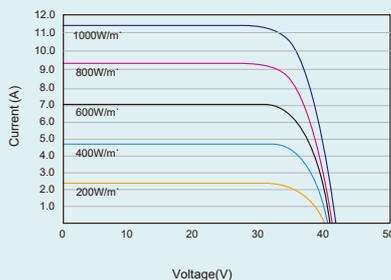
Front View



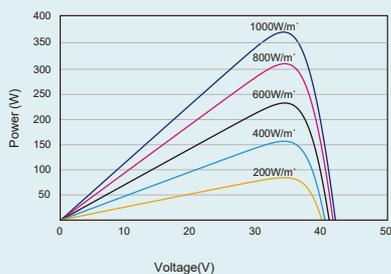
Back View



### I-V CURVES OF PV MODULE(370W)



### P-V CURVES OF PV MODULE(370W)



### ELECTRICAL DATA (STC)

Parameter	360	365	370	375	380
Peak Power Watts- $P_{MAX}$ (Wp)*	360	365	370	375	380
Power Tolerance- $P_{MAX}$ (W)	0 ~ +5				
Maximum Power Voltage- $V_{MPP}$ (V)	33.6	33.9	34.2	34.4	34.7
Maximum Power Current- $I_{MPP}$ (A)	10.70	10.76	10.82	10.89	10.96
Open Circuit Voltage- $V_{OC}$ (V)	40.7	41.0	41.3	41.6	41.9
Short Circuit Current- $I_{SC}$ (A)	11.24	11.30	11.37	11.45	11.52
Module Efficiency $\eta_m$ (%)	19.6	19.9	20.2	20.5	20.7

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5. \*Measuring tolerance: ±3%.

### ELECTRICAL DATA (NOCT)

Parameter	271	275	279	283	287
Maximum Power- $P_{MAX}$ (Wp)	271	275	279	283	287
Maximum Power Voltage- $V_{MPP}$ (V)	31.5	31.8	32.0	32.2	32.5
Maximum Power Current- $I_{MPP}$ (A)	8.60	8.65	8.71	8.77	8.83
Open Circuit Voltage- $V_{OC}$ (V)	38.3	38.6	38.9	39.2	39.4
Short Circuit Current- $I_{SC}$ (A)	9.06	9.10	9.16	9.23	9.28

NOCT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s.

### MECHANICAL DATA

Solar Cells	Monocrystalline
Cell Orientation	120 cells
Module Dimensions	1755× 1038 × 30 mm (69.09× 40.86 × 1.18 inches)
Weight	20 kg
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	EVA
Backsheet	Black
Frame	30 mm(1.18 inches) Black, anodized aluminium alloy
J-Box	IP 68 rated (3 bypass diodes)
Cables	Photovoltaic Technology Cable 4.0mm <sup>2</sup> (0.006 inches <sup>2</sup> ) Portrait: N 300mm/P 300mm(11.02/11.02 inches) Length can be customized
Connector	MC4

\*Please refer to regional datasheet for specified connector.

### TEMPERATURE RATINGS

NOCT(Nominal Operating Cell Temperature)	43°C (±2°C)
Temperature Coe <sup>o</sup> cient of $P_{MAX}$	- 0.34%/°C
Temperature Coe <sup>o</sup> cient of $V_{OC}$	- 0.25%/°C
Temperature Coe <sup>o</sup> cient of $I_{SC}$	0.04%/°C

### MAXIMUM RATINGS

Operational Temperature	- 40 ~ +85°C
Maximum System Voltage	1500V DC (IEC)
	1000V DC (IEC)
Max Series Fuse Rating	20A

### 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 CONFIGURATION

- Modules per pallet: 37 pieces
- Modules per 40' container: 1040 pieces



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