

Mono PERC 166mm 120 Cells

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

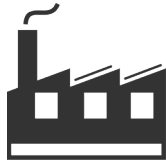
360/365/370/375/380 WP



APPLICATIONS >>



On-grid residential roof-tops



On-grid commercial/ industrial roof-tops



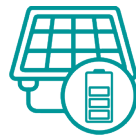
Better appearance

- 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



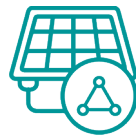
High customer value

- 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

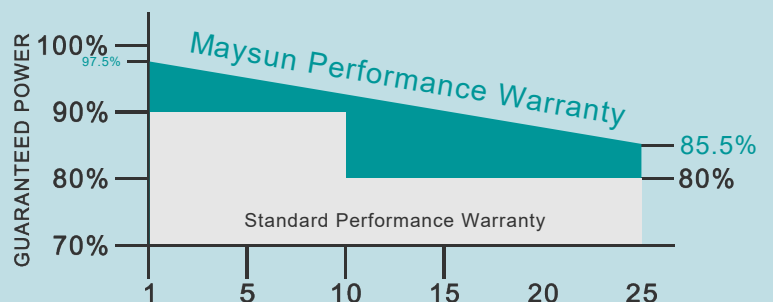
- Minimized micro-cracks with innovative non-destructive cutting technology
- Ensured PID resistance through cell process and module material control
- Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity areas
- Mechanical performance up to 5400 Pa positive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

MAXIMUM EFFICIENCY

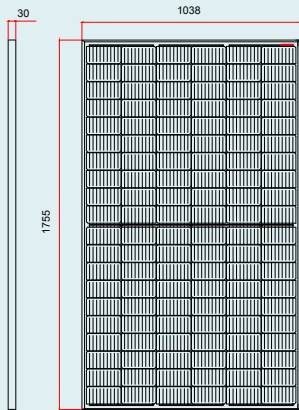
20.7%

POSITIVE POWER TOLERANCE

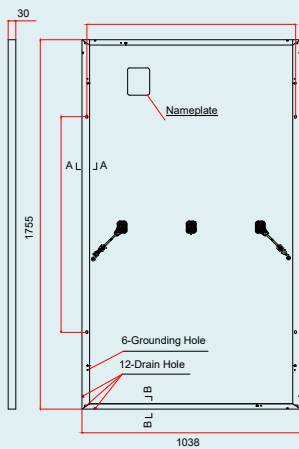
0 ~ +5W



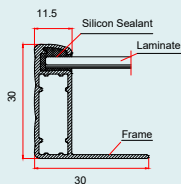
DIMENSIONS OF PV MODULE(mm)



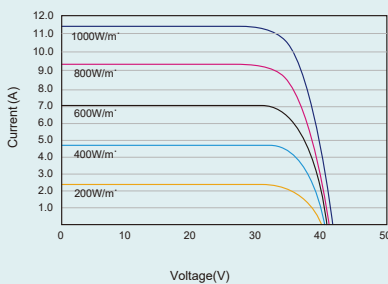
Front View



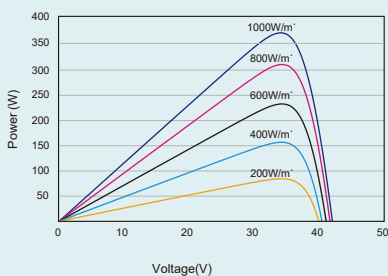
Back View



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 η_m (%) | 19.6 | 19.9 | 20.2 | 20.5 | 20.7 |

STC: Irradiance 1000W/m², 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/m², 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 ² (0.006 inches ²) Portrait: N 300mm /1100mm P 300mm / 1100mm 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 P_{MAX} | - 0.34%/°C |
| Temperature Coefficient of V_{OC} | - 0.25%/°C |
| Temperature Coefficient 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: 36 and 42 pieces
- Modules per 40' container: 1014pieces



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

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