

Mono PERC 210mm 256 Cells

TH(400-420)PM6-43SB Full Black

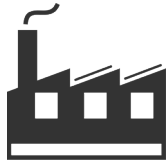
400/405/410/415/420 WP



APPLICATIONS >>



On-grid residential
roof-tops



On-grid commercial/
industrial roof-tops



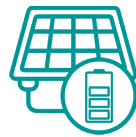
Better appearance

- 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



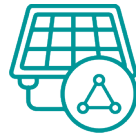
High customer value

- 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

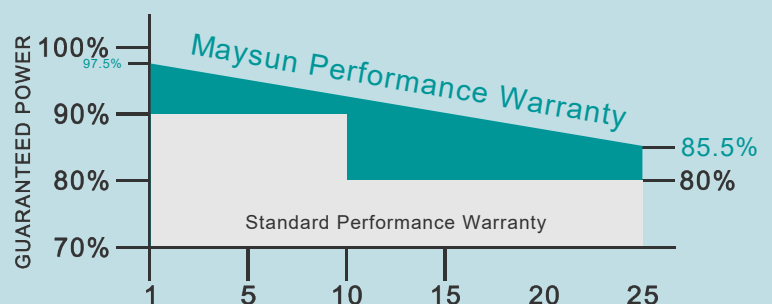
- Minimized micro-cracks with innovative non-destructive cutting technology
- Ensured PID resistance through cell process and module material control
- Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity areas
- Mechanical performance up to 5400 Pa positive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

MAXIMUM EFFICIENCY

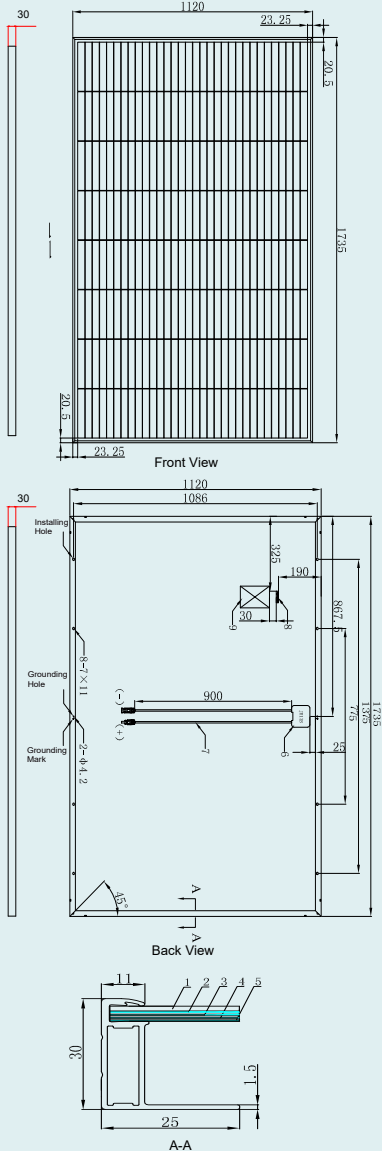
21.6%

POSITIVE POWER TOLERANCE

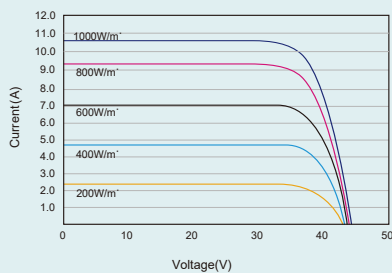
0 ~ +5W



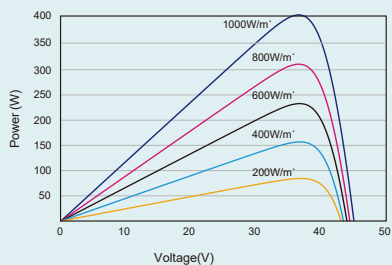
DIMENSIONS OF PV MODULE(mm)



I-V CURVES OF PV MODULE(400W)



P-V CURVES OF PV MODULE(400W)



ELECTRICAL DATA (STC)

Peak Power Watts- P_{MAX} (W)*	400	405	410	415	420
Power Tolerance- P_{MAX} (W)	0 ~ +5				
Maximum Power Voltage- V_{MPP} (V)	35.75	35.95	36.15	36.33	36.5
Maximum Power Current- I_{MPP} (A)	11.19	11.27	11.35	11.43	11.51
Open Circuit Voltage- V_{OC} (V)	42.35	42.55	42.75	42.9	43.05
Short Circuit Current- I_{SC} (A)	11.87	11.92	11.96	12.01	12.05
Module Efficiency η_m (%)	20.6	20.85	21.1	21.35	21.6

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

ELECTRICAL DATA (NOCT)

Maximum Power- P_{MAX} (Wp)	303	307	310	314	318
Maximum Power Voltage- V_{MPP} (V)	33.5	33.69	33.87	34.04	34.2
Maximum Power Current- I_{MPP} (A)	9.01	9.07	9.14	9.20	9.27
Open Circuit Voltage- V_{OC} (V)	39.85	40.04	40.23	40.37	40.51
Short Circuit Current- I_{SC} (A)	9.55	9.59	9.63	9.67	9.70

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

MECHANICAL DATA

Solar Cells	Monocrystalline
Cell Orientation	256 cells
Module Dimensions	1735×1120×30 mm (68.31×44.09×1.18 inches)
Weight	21.4 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 900mm/P 900mm(35.43/35.43 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°cient of P_{MAX}	- 0.34%/°C
Temperature Coe°cient of V_{OC}	- 0.25%/°C
Temperature Coe°cient of I_{SC}	0.04%/°C

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.

MAXIMUM RATINGS

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

PACKAGING CONFIGURATION

Modules per pallet: 37 pieces
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.

Website: www.maysunsolar.com