Mono PERC 210mm 100 Cells

MS(485-510)MDG-50H Dual Glass Bifacial

485/490/495/500/505/510 WP

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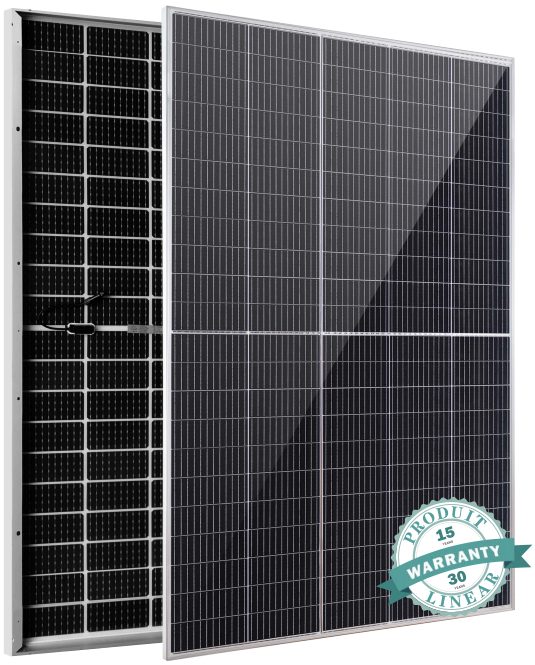


High customer value

- 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
- The unique design provides optimized energy production under inter-rowshading 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

High power up to 510W

- Large area cells based on 210mm silicon wafers and 1/2-cut cell technology
- Up to 21.3% module efficiency with high density interconnect technology
- Multi-busbar technology for better light trapping effect lower series resistance and improved current collection

APPLICATIONS >>

Ground power plants

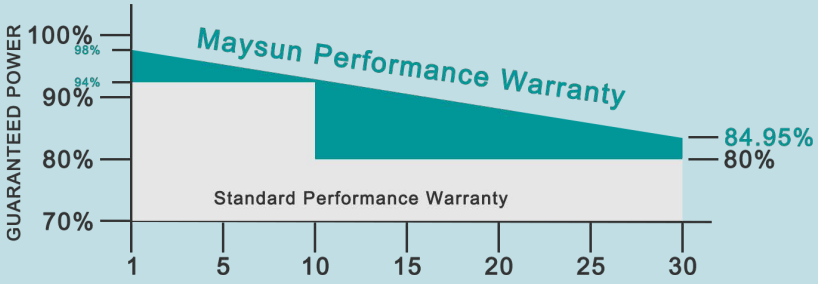
Commercial/ industrial roof-tops

MAXIMUM EFFICIENCY

21.3%

POSITIVE POWER TOLERANCE

0 ~+5W



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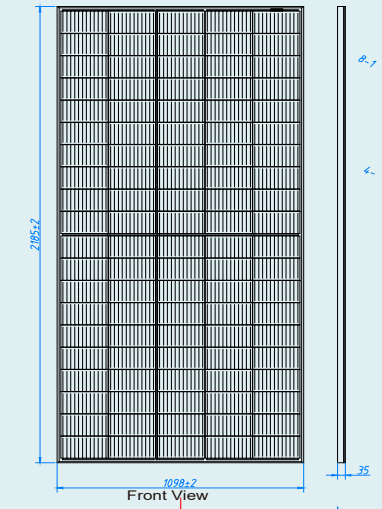
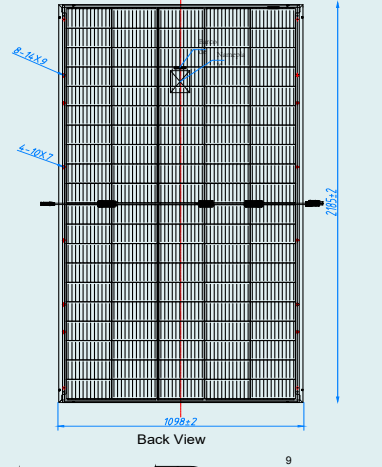
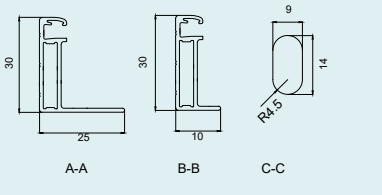
MS(485-510)MDG-50H Bifacial

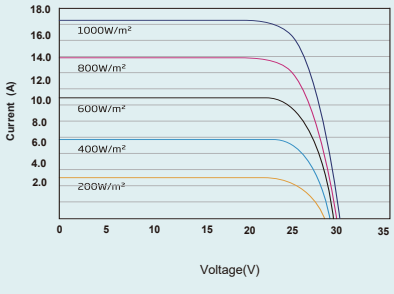
DIMENSIONS OF PV MODULE(mm)



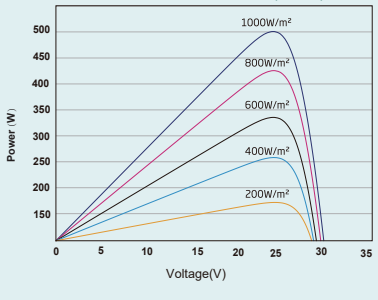




I-V CURVES OF PV MODULE(500W)



P-V CURVES OF PV MODULE(500W)



ELECTRICAL DATA (STC)

Peak Power Watts-P_{MAX} (Wp)*	485	490	495	500	505	510
Power Tolerance-P_{MAX} (W)	0 ~ +5					
Maximum Power Voltage-V_{MPP} (V)	28.2	28.4	28.6	28.8	29.0	29.2
Maximum Power Current-I_{MPP} (A)	17.18	17.25	17.31	17.36	17.42	17.49
Open Circuit Voltage-V_{OC} (V)	33.9	34.1	34.3	34.5	34.7	34.9
Short Circuit Current-I_{SC} (A)	18.31	18.39	18.47	18.55	18.63	18.71
Module Efficiency η_m (%)	20.3	20.5	20.7	20.9	21.1	21.3

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

ELECTRICAL DATA (NOCT)

Maximum Power-P_{MAX} (Wp)	368	372	375	379	382	385
Maximum Power Voltage-V_{MPP} (V)	26.2	26.4	26.6	26.8	27.0	27.2
Maximum Power Current-I_{MPP} (A)	14.01	14.05	14.09	14.14	14.17	14.20
Open Circuit Voltage-V_{OC} (V)	31.9	32.1	32.3	32.5	32.7	32.9
Short Circuit Current-I_{SC} (A)	14.75	14.82	14.88	14.95	15.01	15.08

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

MECHANICAL DATA

Solar Cells	Monocrystalline
Cell Orientation	100 cells
Module Dimensions	2185×1098×30 mm (86.02×43.22×1.18 inches)
Weight	26.5 kg
Front Glass	2.0 mm (0.08 inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	EVA/POE
Back Glass	2.0 mm (0.08 inches), Heat Strengthened Glass (White Grid Glass)
Frame	30 mm(1.18 inches) Silver, anodized aluminium alloy
J-Box	IP 68 rated (3 bypass diodes)
Cables	Photovoltaic Technology Cable 4.0mm² (0.006 inches²) Portrait: N 280mm/P 280mm(11.2/11.2 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 P_{MAX}	- 0.34%/°C
Temperature Coefficient of V_{OC}	- 0.25%/°C
Temperature Coefficient of I_{SC}	0.04%/°C

MAXIMUMRATINGS

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
30 year Power Warranty
2.5% first year degradation
0.45% Annual Power Attenuation

*Please refer to product warranty for details.

PACKAGING CONFIGUREATION

Modules per pallet: 31 pieces
Modules per 40' container: 740 pieces

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

Website: www.maysunsolar.com