

Mono PERC 210mm 110 Cells

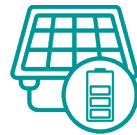
MS(545-560)MB-55H Silver Frame

545/550/555/560 WP



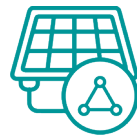
High customer value

- 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



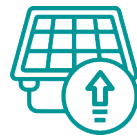
High energy yield

- Excellent IAM (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

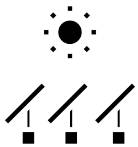
- Minimized micro-cracks with innovative non-destructive cutting technology
- Ensured PID resistance through cell process and module material control
- Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity areas
- Mechanical performance up to 5400 Pa positive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



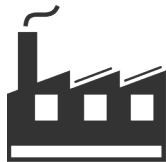
High power up to 560W

- Large area cells based on 210mm silicon wafers and 1/2-cut cell technology
- Up to 21.4% 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

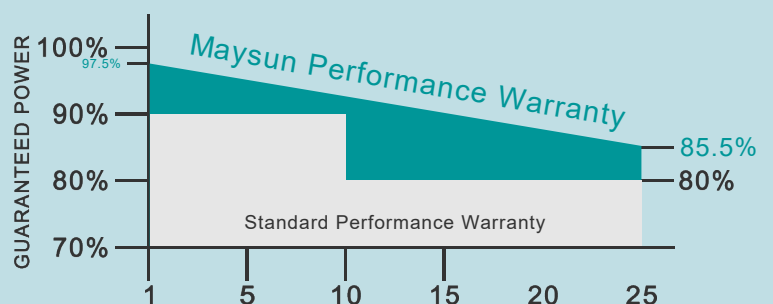


MAXIMUM EFFICIENCY

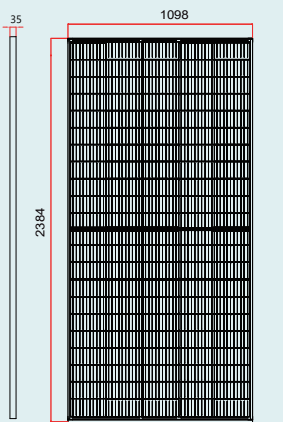
21.4%

POSITIVE POWER TOLERANCE

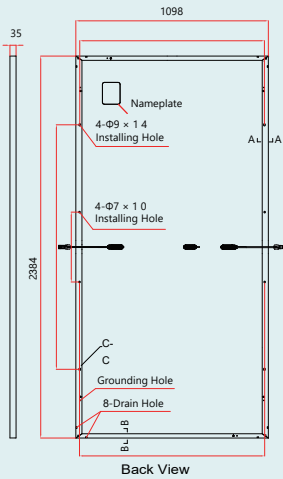
0 ~ +5W



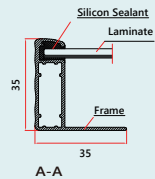
DIMENSIONS OF PV MODULE(mm)



Front View

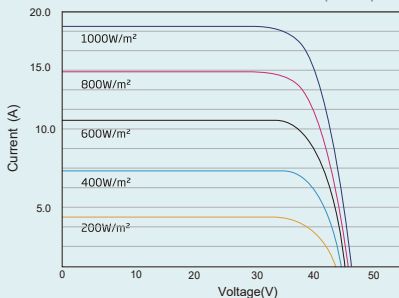


Back View

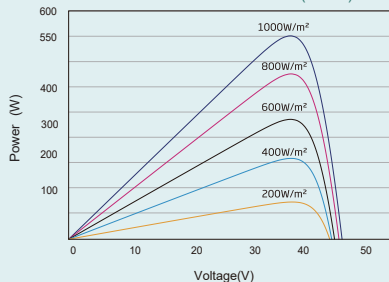


A-A

I-V CURVES OF PV MODULE(550W)



P-V CURVES OF PV MODULE(550W)



ELECTRICAL DATA (STC)

Parameter	545	550	555	560
Peak Power Watts- P_{MAX} (Wp)*	545	550	555	560
Power Tolerance- P_{MAX} (W)	0 ~ +5			
Maximum Power Voltage- V_{MPP} (V)	31.4	31.6	31.8	32.0
Maximum Power Current- I_{MPP} (A)	17.35	17.40	17.45	17.50
Open Circuit Voltage- V_{OC} (V)	37.7	37.9	38.1	38.3
Short Circuit Current- I_{SC} (A)	18.48	18.52	18.56	18.60
Module Efficiency η_m (%)	20.8	21.0	21.2	21.4

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

ELECTRICAL DATA (NOCT)

Parameter	414	417	420	423
Maximum Power- P_{MAX} (Wp)	414	417	420	423
Maximum Power Voltage- V_{MPP} (V)	29.3	29.4	29.5	29.6
Maximum Power Current- I_{MPP} (A)	14.13	14.19	14.25	14.31
Open Circuit Voltage- V_{OC} (V)	35.5	35.7	35.9	36.1
Short Circuit Current- I_{SC} (A)	14.88	14.92	14.96	15.00

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

MECHANICAL DATA

Solar Cells	Monocrystalline
Cell Orientation	110 cells
Module Dimensions	2384x1098x35 mm (93.85x43.22x1.38 inches)
Weight	28.6 kg
Glass	3.2 mm (0.13 inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	EVA
Backsheet	White
Frame	35 mm (1.38 inches) Silver, 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/P 300mm(11.8/11.8 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

MAXIMUM RATINGS

Operational Temperature	- 40 ~ +85°C
Maximum System Voltage	1500V DC (IEC)
	1000V DC (IEC)
Max Series Fuse Rating	25A

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: 31 pieces
- Modules per 40' container: 620 pieces



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

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