



MEGA SOLAR

HIGH PERFORMANCE MONOCRYSTALLINE PERC MODULE



G5.6

MS120-8-580M-605M

120 CELL

Mono PERC Module

580-605Wp

Power Output Range

1500VDC

Maximum System Voltage

21.4%

Maximum Efficiency

KEY SALIENT FEATURES



Global, Tier 1 manufacturer brand, with independently certified state-of-the-art automated manufacturing



Industry leading lowest thermal co-efficient of power



Excellent low irradiance performance



Excellent PID resistance



Dual stage 100% EL Inspection warranting defect-free product



Module Imp binning radically reduces string mismatch losses



Excellent wind load 2400Pa & snow load 5400Pa under certain installation method



Comprehensive product and system certification

- ♦ IEC61215:2016; IEC61730-1/-2:2016;
- ♦ ISO 9001:2015 Quality Management System
- ♦ ISO 14001:2015 Environmental Management System
- ♦ ISO 45001:2018 Occupational Health and Safety Management System



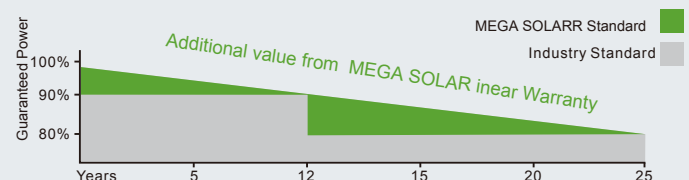
ISO9001
ISO14001
ISO45001
IEC62941




MEGA SOLAR

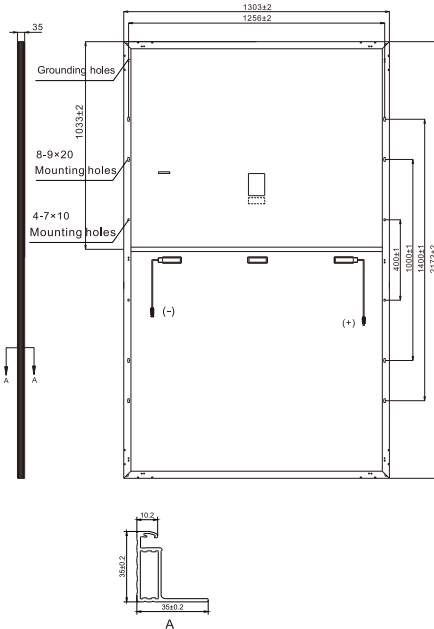
LINEAR PERFORMANCE WARRANTY

12 Year Product Warranty / 25 year Linear Power Warranty



Dimensions of PV Module

Unit: mm



ELECTRICAL DATA(STC)

Model Number	MS 120-8-580M	MS 120-8-585M	MS 120-8-590M	MS 120-8-595M	MS 120-8-600M	MS 120-8-605M
Rated Power in Watts-Pmax(Wp)	580	585	590	595	600	605
Open Circuit Voltage-Voc(V)	40.80	41.00	41.20	41.40	41.60	41.80
Short Circuit Current-Isc(A)	18.11	18.16	18.21	18.26	18.32	18.37
Maximum Power Voltage-Vmpp(V)	33.94	34.12	34.32	34.50	34.70	34.88
Maximum Power Current-Impp(A)	17.10	17.15	17.20	17.25	17.30	17.35
Module Efficiency (%) ★	20.5	20.7	20.8	21.0	21.2	21.4

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

★ Module Efficiency (%): Round-off to the nearest number

ELECTRICAL DATA(NMOT)

Model Number	MS 120-8-580M	MS 120-8-585M	MS 120-8-590M	MS 120-8-595M	MS 120-8-600M	MS 120-8-605M
Maximum Power-Pmax (Wp)	439.5	443.1	447.0	450.7	454.6	458.3
Open Circuit Voltage-Voc (V)	37.94	38.13	38.32	38.50	38.69	38.87
Short Circuit Current-Isc (A)	14.85	14.89	14.93	14.97	15.02	15.06
Maximum Power Voltage-Vmpp (V)	31.50	31.66	31.85	32.02	32.20	32.37
Maximum Power Current-Impp (A)	13.95	13.99	14.04	14.08	14.12	14.16

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

MECHANICAL DATA

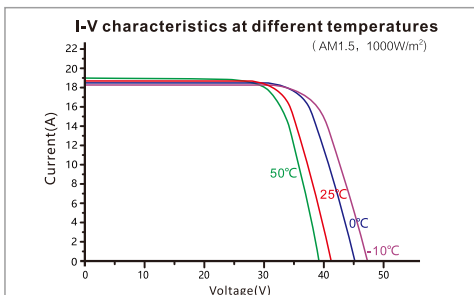
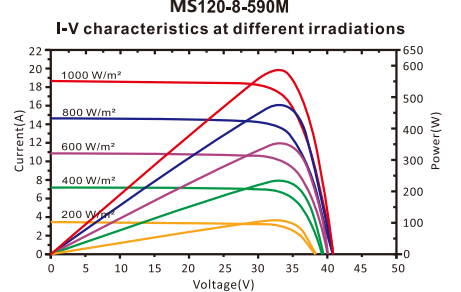
Solar cells	Monocrystalline	
Cell configuration	120 cells (6×10+6×10)	
Module dimensions	2172×1303×35mm	
Cables	4.0mm ² (12AWG), Positive(+)350mm, Negative(-)230mm (Connector Included)	
Superstrate	High Transmission, Low Iron, Tempered ARC Glass	
Substrate	White Back-sheet	
Connector	Twinsel PV-SY02, IP68	
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes	
Weight	32kg	32kg
Frame	Anodized Aluminium Alloy type 6005-2T6, Silver Color	High strength alloy steel

TEMPERATURE&MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	44°C±2°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.04%/°C
Temperature Coefficient of Pmax	-0.34%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	30A
Limiting Reverse Current	30A

PACKAGING CONFIGURATION

	40ft(HQ)Aluminum Frame	40ft(HQ)Alloy Steel Frame
Number of modules per container	558	558
Number of modules per pallet	31	31
Number of pallets per container	18	18
Packaging box dimensions (LxWxH) in mm	1320×1120×2310	1320×1120×2310
Box gross weight[kg]	1017	1035



Our Partners: