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Solar Panel Guide Specification Data Sheet

Shenzhen MeiSongMao Industrial Co., Ltd

Mono 270-290W

MSM-290M

Also available on the web at

EnergyPal.com/shenzhen-meisongmao-industrial-co-ltd-solar-panels/msm-290m

255 - 290 W Mono / Poly Solar Panel



ISO 9001:2008 & ISO 14001 management systems



IEC 61215 & IEC 61730 standard quality



0-5 W positive power sorting



Stable performance under weak light conditions



Wind load up to 3800 Pa / Snow load up to 5400 Pa



Salt mist and ammonia corrosion tests passed



25-year power warranty / 10-year product warranty



6^{inches} /60 Cells

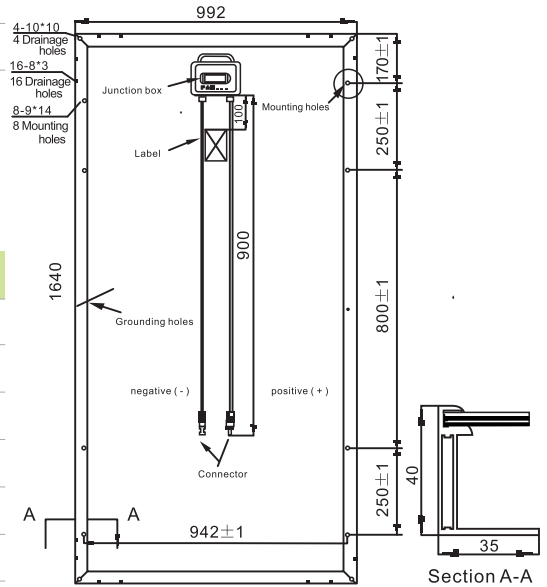
MONO

STC	MSM-270M	MSM-275M	MSM-280M	MSM-285M	MSM-290M
Maximum Power (P _{max})	270W	275W	280W	285W	290W
Open Circuit Voltage (V _{oc})	38.2V	38.3V	38.5V	38.7V	38.9V
Short Circuit Current (I _{sc})	9.17A	9.25A	9.37A	9.49A	9.60A
Voltage at Maximum Power (V _{mpp})	31.0V	31.3V	31.5V	31.7V	31.9V
Current at Maximum Power (I _{mp})	8.71A	8.79A	8.89A	8.99A	9.09A
Module Efficiency (%)	16.60%	16.90%	17.20%	17.52%	17.83%

STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5;
Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/- 3%

POLY

STC	MSM-255P	MSM-260P	MSM-265P	MSM-270P	MSM-275P
Maximum Power (P _{max})	255W	260W	265W	270W	275W
Open Circuit Voltage (V _{oc})	37.3V	37.4V	37.5V	38.2V	38.2V
Short Circuit Current (I _{sc})	9.00A	9.11A	9.21A	9.30A	9.35A
Voltage at Maximum Power (V _{mpp})	30.2V	30.4V	30.5V	30.9V	30.9V
Current at Maximum Power (I _{mp})	8.43A	8.55A	8.68A	8.74A	8.90A
Module Efficiency (%)	15.67%	15.98%	16.29%	16.60%	16.90%



Mechanical Characteristics	
Solar Cell	156x156mm (6inches)
No. of Cells	60 (6 × 10)
Dimensions	1640×992 × 40mm
Weight	20.0 kgs
Front	Glass 3.2 mm tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP65/IP67 rated (3 bypass diodes)
Output Cables	TÜV (2Pfg1169:2007), UL 4703, 4.0 mm ² , symmetrical length (-) 900mm and (+) 900mm
Connectors	MC 4 compatible
Mechanical load test	5400Pa

Operating Module Temperature	-40 °C to +85 °C
Maximum System Voltage	1500VDC(IEC)/600VDC(UL)
Maximum Series Fuse Rating	15 A
Power Tolerance	0/+5W

Temperature Characteristics	
Nominal Operating Cell Temperature (Noct)	45±2°C
Temperature Coefficient of P _{max}	-0.42 %/°C
Temperature Coefficient of V _{oc}	-0.32 %/°C
Temperature Coefficient of I _{sc}	0.05 %/°C

Packing Configuration		
Container	20' GP	40' GP
Pieces per pallet	26	29
Pallets per container	12	28
Pieces per container	312	812

