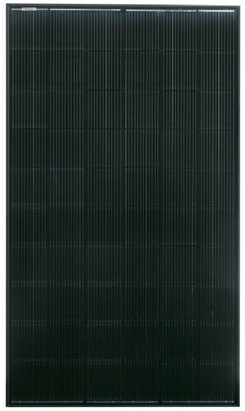
For Global Market



MaysunSolar

Monocrystalline PV Module

MS(290-310)BM-60 Series

12BB

- ▶ High PID resist performance
- ▶ Excellent low light performance with advanced surface texturing and back surface field.
- ▶ Multi-busbar design decreases the risk of the cell micro-cracks and fingers broken.
- ▶ Lower series resistance/improved light harvesting enable high conversion efficiency and more power output.

290 | **295** | **300** | **305** | **310**

System voltage 1000V/1500V standard

EN

ELECTRICAL SPECIFICATIONS

STC rated output (P_{mpp})*	290 Wp	295 Wp	300 Wp	305 Wp	310 Wp
PV Module size			1640*992*35 MM		
Standard sorted output			0/+5 Wp		
Warranted power output STC ($P_{nominal}$)	290 Wp	295 Wp	300 Wp	305 Wp	310 Wp
Rated voltage (V_{mpp}) at STC	32.45 V	32.81 V	32.93 V	33.11 V	33.41 V
Rated current (I_{mpp}) at STC	8.94 A	8.99 A	9.11 A	9.21 A	9.28 A
Open circuit voltage (V_{oc}) at STC	39.26 V	39.26 V	39.85 V	40.03 V	40.43 V
Short circuit current (I_{sc}) at STC	9.47 A	9.58 A	9.66 A	9.74 A	9.84 A
Module efficiency	17.8%	18.1%	18.4%	18.7%	19.1%
Rated output (P_{mpp}) at NOCT	213.2 Wp	215.5 Wp	220.5 Wp	224.5 Wp	227.9 Wp
Rated voltage (V_{mpp}) at NOCT	29.21 V	29.35 V	29.64 V	29.93 V	30.07 V
Rated current (I_{mpp}) at NOCT	7.30 A	7.34 A	7.44 A	7.50 A	7.58 A
Open circuit voltage (V_{oc}) at NOCT	36.36 V	36.64 V	37.08 V	37.26 V	37.42 V
Short circuit current (I_{sc}) at NOCT	7.77 A	7.83 A	7.92 A	7.97 A	8.07 A

Temperature coefficient (P_{mpp})	- 0.380%/K
Temperature coefficient (I_{sc})	+0.042%/K
Temperature coefficient (I_{mpp})	- 0.008%/K
Temperature coefficient (V_{mpp})	- 0.373%/K
Temperature coefficient (V_{oc})	- 0.284%/K
Normal operating cell temperature (NOCT)	46±2°C

Maximum system voltage (IEC)	$1000V_{DC}$ / $1500V_{DC}$
Number of diodes	3
Maximum series fuse rating	15 A
Operating Temperature	-40°C to +85°C

*Measurement tolerance +/- 3%

IEC 61701 Salt Spray test Severity (3)

IEC 60068-2-68 Sand test

IEC 62804 1500V PID test

MAYSUN SOLAR

RELATED PARAMETERS

Cell type	Monocrystalline
Number of cells / cell arrangement	60 / 6 x10
Cells dimension	6″
Packing unit	30 modules
Weight of packing unit (for container)	557 kg / 1228 lbs

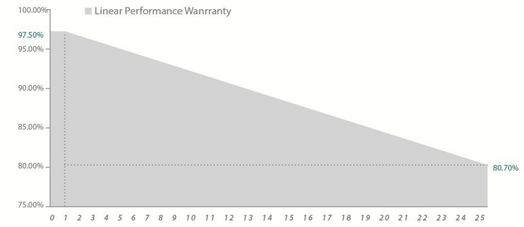
MECHANICAL SPECIFICATIONS

Outer dimensions (L x W x H)	1640 x 992 x 35 mm 64.57 x 39.06 x 1.38 in
Frame technology	Aluminum, black anodized
Module composition	Glass / EVA / Backsheet (black)
Weight (module only)	18 kg / 39.68 lbs
Front glass thickness	3.2 mm / 0.13 in
Junction box IP rating	IP 65/67
①Cable length(IEC)	600/900 mm / 23.62/35.43 in
Cable diameter (IEC)	12 AWG /4 mm^2
②Maximum load capacity	5400 Pa
Fire performance (IEC)	Class C
Connector type (IEC)	MC4 compatible

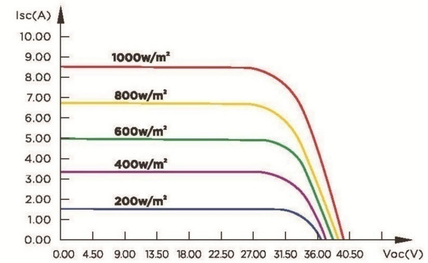
Refer to Maysun Solar crystalline installation manual.

QUALIFICATION AND LINEAR WARRANTIES

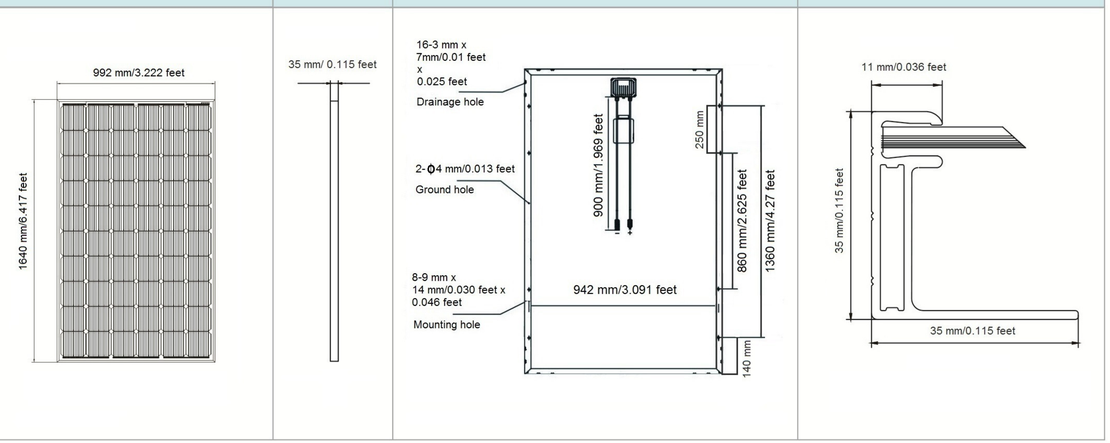
Product standard	IEC61215, 61730
Extended product warranty	12 years
Output decline 2%/year performance P_{mpp} (STC)	1st year
Output decline 0.5%/year performance P_{mpp} (STC)	2nd~ 25th years



I-V Curves of PV module MS260M-60
at various solar irradiance



MODULE DIMENSION DETAILS



Maysun Solar FZCO Reserves the right of final interpretation.
Specifica tions and designs included in this datasheet are subject to change without notice.

Maysun Solar FZCO
Address: No.FZS2AB01, Jebel Ali, Dubai, UAE
Website: www.maysunsolar.com

Maysun Solar 2019