Standard Series MSP-60

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Mariosolar High Efficiency Polycrystalline Solar Module 270-290W



Approved Technology

Approved practice for different operating conditions



Positive Tolerance

Positive tolerance brings more power for free



Mechnical Load Endurance

Excellent mechanical load resistance: wind loads (2400Pa) & snow loads (5400Pa)



Guaranteed Reliability Against Harsh Environment

Due to Complicated Quality control system, offer survival solar module in harsh environment



LINEAR PERFORMANCE WARRANTY



Standard Series MSP-60 Mariosolar High Efficiency Polycrystalline Solar Module

ELECTRICAL DATA @ STC*		MSP270-60	MSP275-60	MSP280-60	MSP285-60	MSP290-60
Peak Power (Pmax)		270	275	280	285	290
Maximum Power Voltage (Vmp)	(V)	31.58	31.87	32.15	32.43	32.70
Maximum Power Current (Imp)	(A)	8.55	8.63	8.71	8.79	8.87
Open-circuit Voltage (Voc)	(V)	37.87	38.14	38.42	38.69	38.98
Short-circuit Current (Isc)	(A)	9.13	9.20	9.27	9.35	9.42
Module Efficiency	(%)	16.61	16.92	17.23	17.54	17.84
Operating Temperature				-40°C~+85°C		
Maximum System Voltage				1000V		
Maximum Series Fuse Rating				15A		
Application Class				Class A		
Power Telorance				0~+3%		

^{*}STC (Standard Test Condition): Irradiance 1000W/ $\mbox{m}^{\rm i}$, Module Temperature 25°C, AM 1.5

ELECTRICAL DATA @ NMOT*

Peak Power (Pmax)	(W)	200	204	207	211	215
MPP Voltage (Vmp)	(V)	29.15	29.42	29.68	29.93	30.18
MPP Current (Imp)	(A)	6.86	6.93	6.99	7.05	7.12
Open Circuit Voltage (Voc)	(V)	35.58	35.83	36.09	36.35	36.66
Short Circuit Current (Isc)	(A)	7.40	7.45	7.51	7.57	7.60

 $^{^{\}star} Under \ Nominal \ Module \ Operating \ Temperature \ (NMOT), \overline{Irradiance \ of \ 800W/\ m^{\dagger}}, Spectrum \ AM \ 1.5, Ambient \ Temperature \ 20^{\circ}C, \ Wind \ Speed \ 1m/s$

TEMPERATURE CHARACTERISTICS

Temperature coefficient of Pmax	-0.41%/°C
Temperature coefficient of Voc	-0.33%/℃
Temperature coefficient of Isc	0.05%/°C
NMOT	43±3°C

MECHNICAL DATA

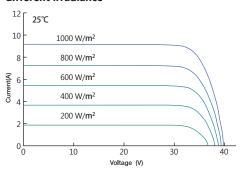
Cell Type	Poly-Crystalline, 6' inch
Cell Arrangement	60pcs (6×10)
Dimension (L×W×H)	1640×991×35mm
Weight	18.2kg
Front Cover	3.2mm Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP67, 3 Bypass Diodes
Cable Type	4mm²
Length of Cable	1000mm
Connector	PV Connector

PACKING MANNER

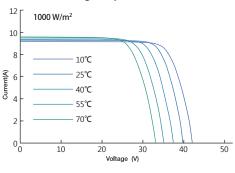
Packing Type	40HQ
Piece/Pallet	30
Pallet/Container	28
Piece/Container	840

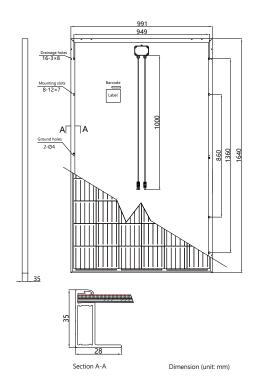
^{*}The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement, Mariosolar. Reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the produccts described herein.

Current-Voltage Curve under different irradiance



Current-Voltage Curve under different working temperatures





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