

Standard Series

MSP-60



Mariosolar High Efficiency Polycrystalline Solar Module (1500V)
270-290W



Approved Technology
Approved practice for different operating conditions



Positive Tolerance
Positive tolerance brings more power for free



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

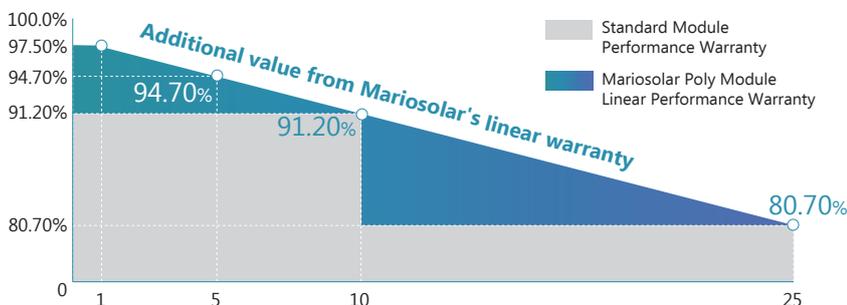


Guaranteed Reliability Against Harsh Environment
Due to Complicated Quality control system, offer survival solar module in harsh environment



1500V System Voltage
Approved IEC1500Vdc system voltage, saving on BoS cost

LINEAR PERFORMANCE WARRANTY



12years Product Material & Workmanship

25years Linear Performance Warranty

About Mariosolar

Mariosolar, established in 2018, is dedicated to providing solar products with high quality, excellent performance and strong after-sales support. The company not only has strong financial support but also never stops innovating. Mariosolar will keep delivering the diversified solar products for all kinds of renewable energy generation systems around the world.

Standard Series MSP-60H Mariosolar High Efficiency Polycrystalline Solar Module (1500V)

ELECTRICAL DATA @ STC*		MSP270-60H	MSP275-60H	MSP280-60H	MSP285-60H	MSP290-60H
Peak Power (Pmax)	(W)	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		1500V				
Maximum Series Fuse Rating		15A				
Application Class		Class A				
Power Tolerance		0~+3%				

*STC (Standard Test Condition): Irradiance 1000W/ m², 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

*Under Nominal Module Operating Temperature (NMOT), Irradiance of 800W/ m², Spectrum AM 1.5, Ambient Temperature 20°C, Wind Speed 1m/s

TEMPERATURE CHARACTERISTICS

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

MECHANICAL 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		4mm ²
Length of Cable		1000mm
Connector		PV Connector

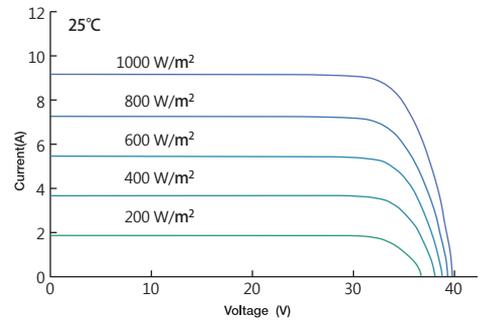
PACKING MANNER

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

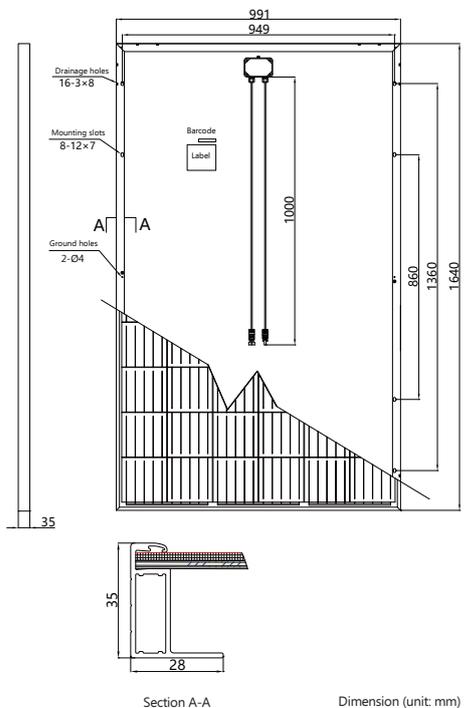
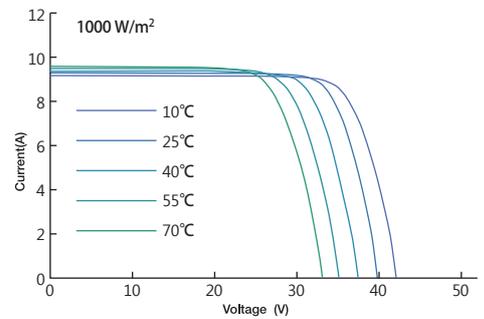
*The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement, Mariosolar. Reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most 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 products described herein.

*Power measurement tolerance: ±3%

Current-Voltage Curve under different irradiance



Current-Voltage Curve under different working temperatures



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