MONO

POLY

PERC Technology

Hpower Series

MSM-60

Mariosolar High Efficiency Monocrystalline Solar Module with Perc Technology

300-320W

Higher Module Efficiency
10% more power than standard modules, due to advanced the PERC technology

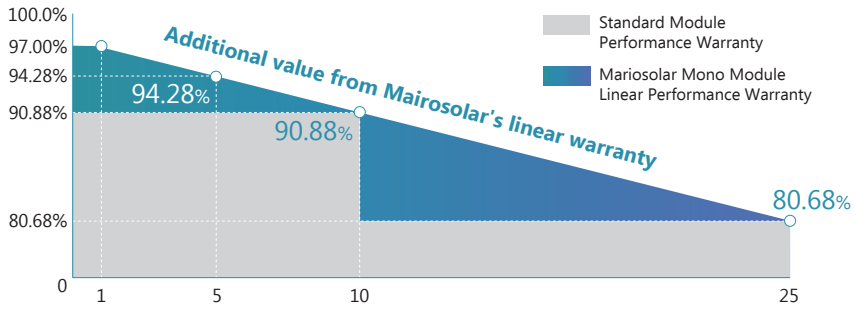
More Energy Yield
Better temperature coefficient, helps boost energy yield

Approved Technology
Approved practice for different operating conditions

Lower Operation Temperature
Less hot spot heating risk, make the module more reliable

Aesthetic Design
Uniformity appreance, aesthetic design with black frame option

LINEAR PERFORMANCE WARRANTY



12years Product Material & Workmanship

25years Linear Performance Warranty

About Mairosolar

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.

www.mariosolar.com

PERC Technology

Hpower Series MSM-60

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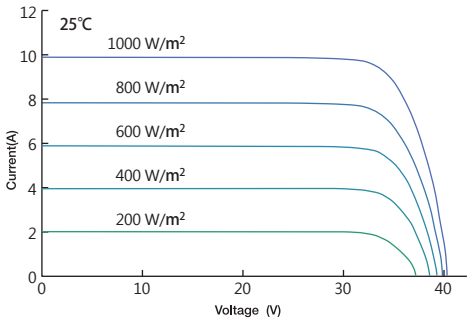
ELECTRICAL DATA @ STC*

		MSM300-60	MSM305-60	MSM310-60	MSM315-60	MSM320-60
Peak Power (Pmax)	(W)	300	305	310	315	320
Maximum Power Voltage (Vmp)	(V)	32.95	33.23	33.52	33.80	34.08
Maximum Power Current (Imp)	(A)	9.11	9.18	9.25	9.32	9.39
Open-circuit Voltage (Voc)	(V)	39.88	40.16	40.44	40.72	41.00
Short-circuit Current (Isc)	(A)	9.60	9.68	9.76	9.84	9.91
Module Efficiency	(%)	18.46	18.77	19.07	19.38	19.69
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/ ㎡ , Module Temperature 25℃, AM 1.5

Current-Voltage Curve under different irradiance

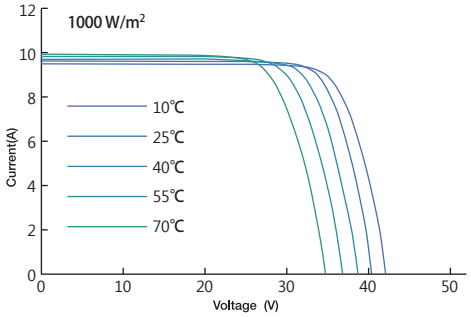


ELECTRICAL DATA @ NMOT*

Peak Power (Pmax)	(W)	222	226	230	234	239
MPP Voltage (Vmp)	(V)	30.34	30.60	30.87	31.12	31.73
MPP Current (Imp)	(A)	7.33	7.39	7.45	7.50	7.52
Open Circuit Voltage (Voc)	(V)	37.62	37.88	38.15	38.41	38.84
Short Circuit Current (Isc)	(A)	7.75	7.82	7.88	7.95	8.00

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

Current-Voltage Curve under different working temperatures



TEMPERATURE CHARACTERISTICS

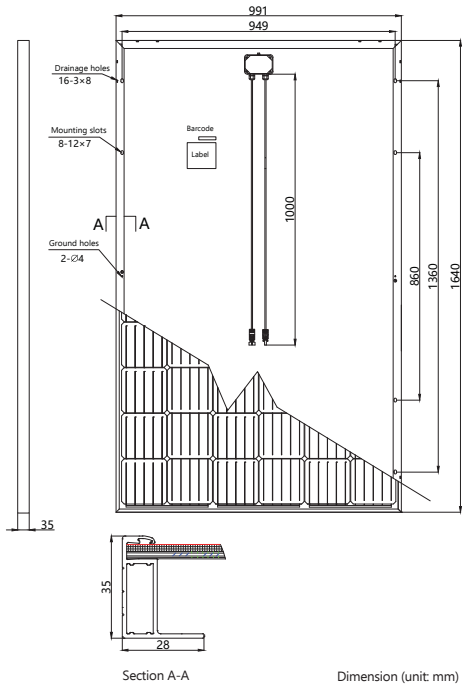
Temperature coefficient of Pmax	-0.40%/°C
Temperature coefficient of Voc	-0.31%/°C
Temperature coefficient of Isc	0.05%/°C
NMOT	42±3℃

MECHNICAL DATA

Cell Type	Mono-Crystalline, 6' inch
Cell Arrangement	60pcs (6×10)
Dimension (L×W×H)	1640×991×35mm
Weight	18.2kg
Front Cover	3.2mm Tempered Glass
Backsheet	Rear side colour white, optional black
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 producctes described herein.

*Power measurement tolerance: ±3%

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