

DuDrive Series

MSHM-144



Mariosolar High Efficiency Monocrystalline Half-cut Cell Solar Module with Perc Technonoly

365-390W



Higher Module Efficiency

Brings 5-10W power gain due to half-cut production system



More Energy Yield

Lower NMOT and better temperature coefficient by lower cell series resistance, helps boost energy yield



Lower Operating Temperature, More Reliable

Lower operating temperature and hot spot temperature during the sunny day, making the module prevail during the sunny days



Better Shading Tolerance

Thanks to Paralleling circuit design, more power generated under shading condition and during morning & evening time

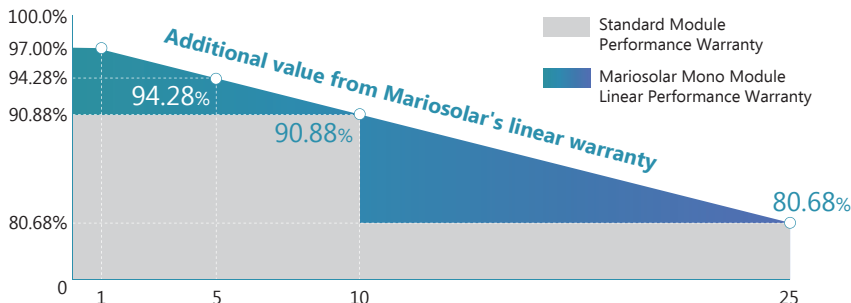


Better Micro Crack Resistance

Minimize the impact by micro crack by limiting cell damage and potentially extending area by half-cut module architecture



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.

DuDrive Series MSHM-144 Mariosolar High Efficiency Monocrystalline Half-cut Cell Solar Module with Perc Technonoly

ELECTRICAL DATA @ STC*		MSHM365-144	MSHM370-144	MSHM375-144	MSHM380-144	MSHM385-144	MSHM390-144
Peak Power (Pmax)	(W)	365	370	375	380	385	390
Maximum Power Voltage (Vmp)	(V)	39.55	39.83	40.11	40.39	40.66	40.93
Maximum Power Current (Imp)	(A)	9.23	9.29	9.35	9.41	9.47	9.53
Open-circuit Voltage (Voc)	(V)	47.90	48.17	48.43	48.72	48.99	49.26
Short-circuit Current (Isc)	(A)	9.99	10.06	10.13	10.19	10.25	10.32
Module Efficiency	(%)	18.42	18.67	18.92	19.17	19.42	19.68
Operating Temperature		-40°C~+85°C					
Maximum System Voltage		1000V					
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*		MSHM365-144	MSHM370-144	MSHM375-144	MSHM380-144	MSHM385-144	MSHM390-144
Peak Power (Pmax)	(W)	271	274	278	282	285	288
MPP Voltage (Vmp)	(V)	36.42	36.68	36.93	37.19	37.69	37.94
MPP Current (Imp)	(A)	7.43	7.48	7.53	7.58	7.55	7.60
Open Circuit Voltage (Voc)	(V)	45.18	45.44	45.68	45.96	46.26	46.51
Short Circuit Current (Isc)	(A)	8.07	8.13	8.18	8.23	8.27	8.33

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

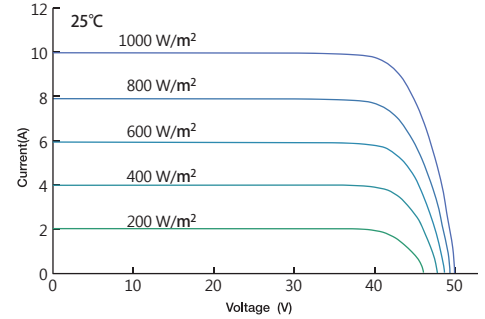
TEMPERATURE CHARACTERISTICS		
Temperature coefficient of Pmax		-0.38%/°C
Temperature coefficient of Voc		-0.31%/°C
Temperature coefficient of Isc		0.05%/°C
NMOT		41±3°C

MECHANICAL DATA		
Cell Type		Mono-Crystalline, 156.75×78.38mm
Cell Arrangement		144pcs (2×(6×12))
Dimension (L×W×H)		2000×991×35mm
Weight		22kg
Front Cover		3.2mm Tempered Glass
Frame		Anodized Aluminium Alloy
Junction Box		IP67, 3 Bypass Diodes
Cable Type		4mm ²
Length of Cable		1250mm
Connector		PV Connector

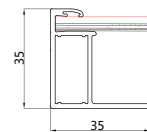
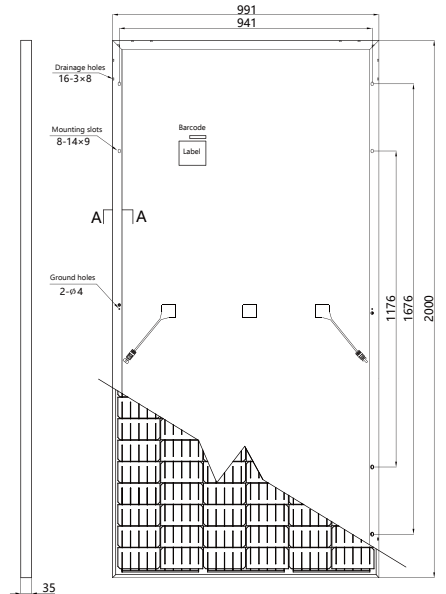
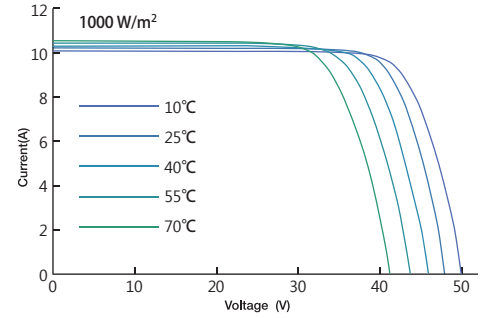
PACKING MANNER		
Packing Type		40HQ
Piece/Pallet		30
Pallet/Container		22
Piece/Container		660

*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.

Current-Voltage Curve under different irradiance



Current-Voltage Curve under different working temperatures



Section A-A Dimension (unit: mm)

*Power measurement tolerance: ±3%

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