

DuDrive Series

MSHM-144L



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

395-405W



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

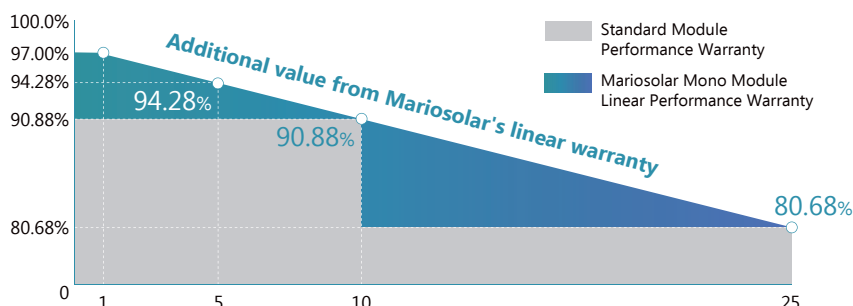
Thanks to Paralleling circuit design, more power generated under shading condition and during morning & evening time



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.

www.mariosolar.com

DuDrive Series MSHM-144L

Mariosolar High Efficiency Monocrystalline
Half-cut Cell Solar Module with Perc Technonoly**ELECTRICAL DATA @ STC***

		MSHM395-144L	MSHM400-144L	MSHM105-144L
Peak Power (Pmax)	(W)	395	400	405
Maximum Power Voltage (Vmp)	(V)	41.07	41.28	41.46
Maximum Power Current (Imp)	(A)	9.62	9.69	9.77
Open-circuit Voltage (Voc)	(V)	49.48	49.71	49.94
Short-circuit Current (Isc)	(A)	10.39	10.46	10.53
Module Efficiency	(%)	19.65	19.90	20.15
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***

Peak Power (Pmax)	(W)	295	298	302
MPP Voltage (Vmp)	(V)	38.23	38.43	38.60
MPP Current (Imp)	(A)	7.70	7.76	7.82
Open Circuit Voltage (Voc)	(V)	46.87	47.09	47.31
Short Circuit Current (Isc)	(A)	8.38	8.44	8.50

*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

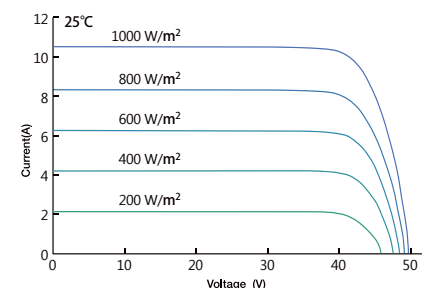
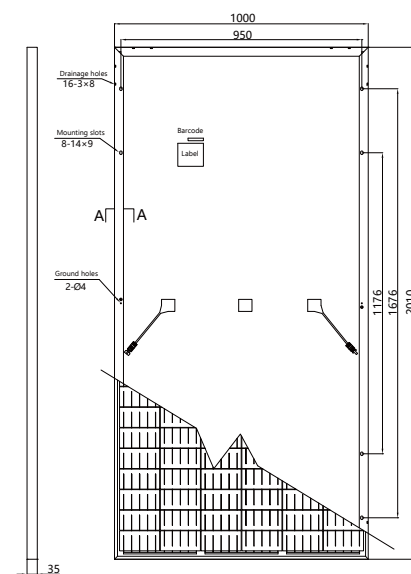
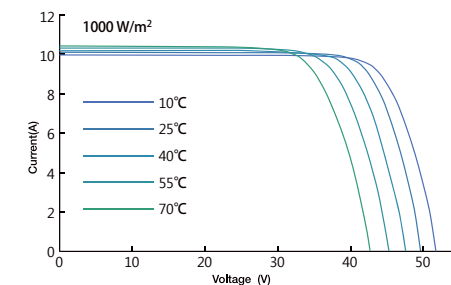
MECHANICAL DATA

Cell Type	Mono-Crystalline, 158.75×79.38mm
Cell Arrangement	144pcs (2×(6×12))
Dimension (L×W×H)	2010×1000×35mm
Weight	22.5kg
Front Cover	3.2mm Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 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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