MONO

POLY

DuDrive Series

MSHP-144

Mariosolar High Efficiency Polycrystalline Half-cut Cell Solar Module

330-350W

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

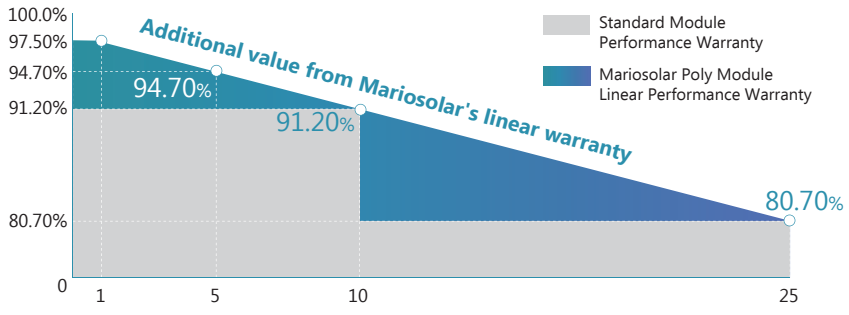
More Energy Yield
Lower NMOT and better temperature coefficient by lower cell series resistance, helps boost energy yield

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 MSHP-144

Mariosolar High Efficiency Polycrystalline
Half-cut Cell Solar Module

ELECTRICAL DATA @ STC*

		MSHP330-144	MSHP335-144	MSHP340-144	MSHP345-144	MSHP350-144
Peak Power (Pmax)	(W)	330	335	340	345	350
Maximum Power Voltage (Vmp)	(V)	38.11	38.38	38.60	38.86	39.11
Maximum Power Current (Imp)	(A)	8.66	8.73	8.81	8.88	8.95
Open-circuit Voltage (Voc)	(V)	45.96	46.24	46.51	46.79	46.79
Short-circuit Current (Isc)	(A)	9.20	9.46	9.57	9.68	9.74
Module Efficiency	(%)	16.65	16.90	17.15	17.41	17.66
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°C, AM 1.5

ELECTRICAL DATA @ NMOT*

Peak Power (Pmax)	(W)	244	248	252	256	259
MPP Voltage (Vmp)	(V)	35.18	35.43	35.63	35.87	36.10
MPP Current (Imp)	(A)	6.95	7.01	7.07	7.13	7.18
Open Circuit Voltage (Voc)	(V)	43.18	43.44	43.69	43.96	44.26
Short Circuit Current (Isc)	(A)	7.45	7.66	7.75	7.84	7.86

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

TEMPERATURE CHARACTERISTICS

Temperature coefficient of Pmax	-0.39%/°C
Temperature coefficient of Voc	-0.33%/°C
Temperature coefficient of Isc	0.05%/°C
NMOT	42±3°C

MECHNICAL DATA

Cell Type	Poly-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	4mm²
Length of Cable	1250mm
Connector	PV Connector

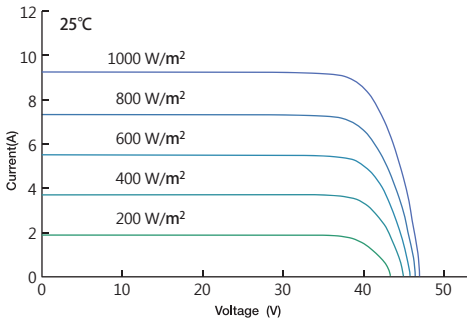
PACKING MANNER

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

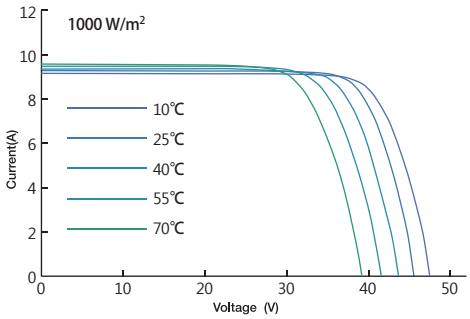
*The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement, Mariosolar. Reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most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

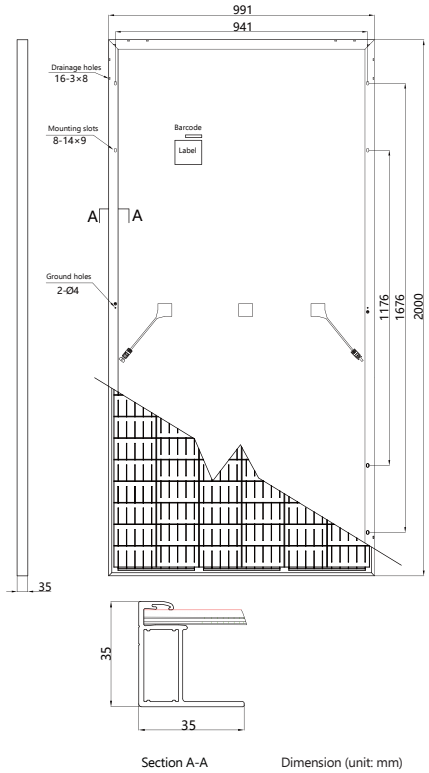
*Power measurement tolerance: ±3%

Current-Voltage Curve under different irradiance



Current-Voltage Curve under different working temperatures





Section A-A Dimension (unit: mm)

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