

DuDrive Series

MSHP-144H



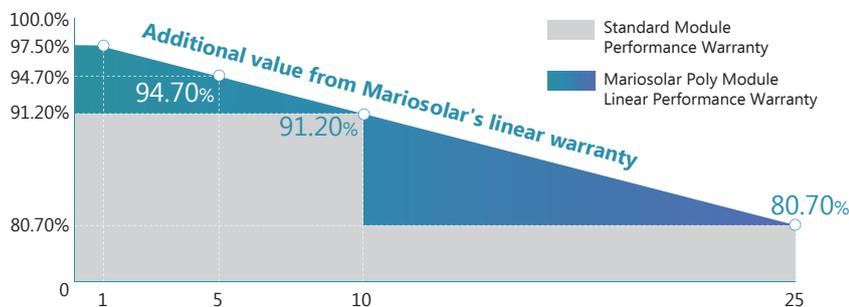
Mariosolar High Efficiency Polycrystalline Half-cut Cell Solar Module (1500V)

330-350W

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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
- 
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.

DuDrive Series MSHP-144H Mariosolar High Efficiency Polycrystalline Half-cut Cell Solar Module (1500V)

ELECTRICAL DATA @ STC*		MSHP330-144H	MSHP335-144H	MSHP340-144H	MSHP345-144H	MSHP350-144H
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		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)	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/ m², 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

MECHANICAL 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		4mm ²
Length of Cable		1250mm
Connector		PV Connector

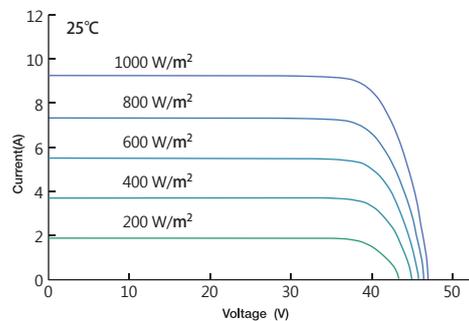
PACKING MANNER

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

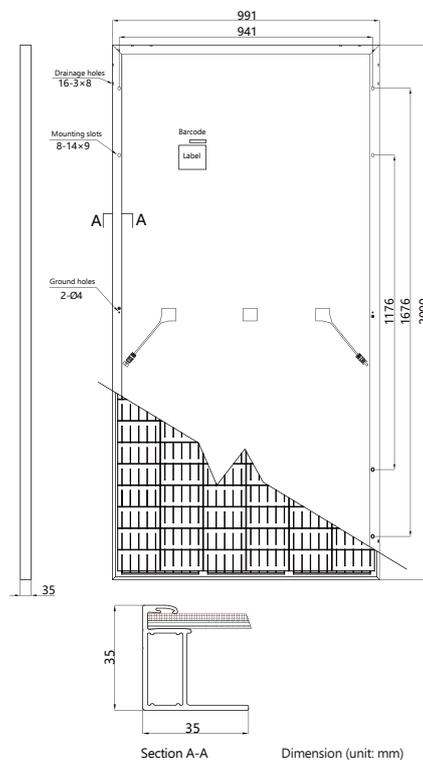
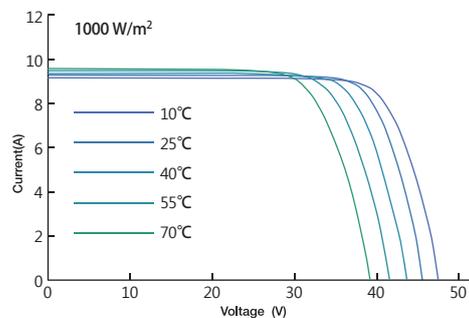
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*Power measurement tolerance: ±3%

Current-Voltage Curve under different irradiance



Current-Voltage Curve under different working temperatures



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