DuDrive Series MSHM-144HL

Mariosolar High Efficiency Monocrystalline Half-cut Cell Solar Module with Perc Technonoly (1500V)

415-435W



Higher Module Efficiency More energy yield



Positive Tolerance Positive tolerance brings more power for free



Better Shading Tolerance Thanks to Paralleling circuit design, more power generated under shading condition and during



Mechnical Load Endurance

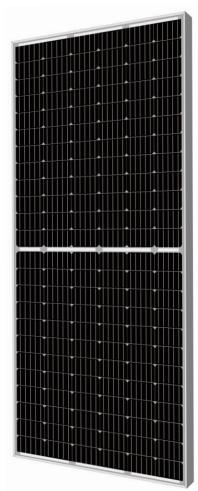
morning & evening time

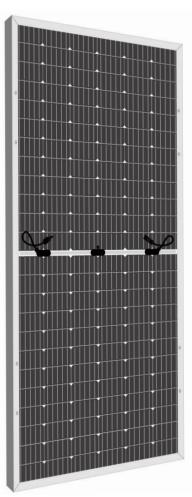
Excellent mechanical load resistance: wind loads (2400Pa) & snow loads (5400Pa)



1500V System Voltage

Approved IEC1500Vdc system voltage, saving on BoS cost





止(€

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.

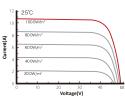
www.mariosolar.com

PERC Technology

DuDrive Series MSHM-144HL Mariosolar High Efficiency Monocrystalline Half-cut Cell Solar Module with Perc Technonoly (1500V)

ELECTRICAL DATA @ STC* 415W 420W 425W 430W 435W 425 415 420 430 435 Maximum Power Voltage (Vmp) 41.0 40.6 40.8 412 41.4 10.37 10.23 10.30 10.44 10.51 49.4 49.0 49.2 49.6 49.8 10.89 10.96 11.02 11.09 11.16 19.0 18.5 18.7 19.2 19.4 -40°C~+85°C 1500V Maximum Series Fuse Rating 15A

Class A 0~+3% Current-Voltage Curve (425W)



Power reiorand

*STC (Standard Test Condition): Irradiance 1000W/ m² , Module Temperature 25°C, AM 1.5

ELECTRICAL DATA @ NMOT*

Peak Power (Pmax)	(W)	308.6	312.3	316.0	319.7	323.5	
MPP Voltage (Vmp)	(V)	37.7	37.9	38.1	38.2	38.4	
MPP Current (Imp)	(A)	8.19	8.25	8.30	8.36	8.42	
Open Circuit Voltage (Voc)	(V)	45.6	45.8	46.0	46.2	46.4	
Short Circuit Current (Isc)	(A)	8.82	8.87	8.93	8.98	9.04	

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

TEMPERATURE CHARACTERISTICS

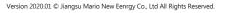
Temperature coefficient of Pmax	-0.37%/°C
Temperature coefficient of Voc	-0.3%/°C
Temperature coefficient of Isc	0.06%/°C
NMOT	45±2℃

MECHNICAL DATA

Cell Type	Mono-Crystalline, 166 x 83 mm
Cell Arrangement	144pcs (2×(6×12))
Dimension (L×W×H)	2131 x1052 x 35mm
Weight	24kg
Front Cover	3.2mm AR coating tempered glass
Frame	Anodized Aluminium Alloy
Junction Box	IP67, 3 Bypass Diodes
Cable Type	4mm²
Length of Cable	1200mm
Connector	PV Connector

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.



A-A



Jiangsu **Mario New Energy Co., Ltd** <sven.wang@mariosolar.com> <whatsapp:+8615905153526>

B-B

Power-Voltage Curve (425W)

