DuDrive Series MSHM-144HL



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

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

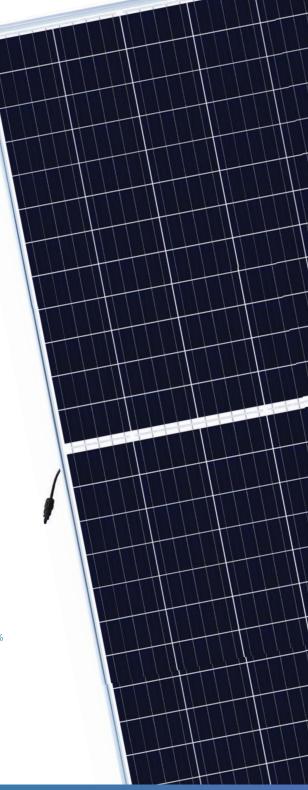


1500V System Voltage

Approved IEC1500Vdc system voltage, saving on BoS cost



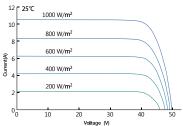




DuDrive Series MSHM-144HL Mariosolar High Efficiency Monocrystalline Half-cut Cell Solar Module with Perc Technonoly (1500V)

ELECTRICAL DATA @ STC* MSHM395-144HL MSHM400-144HL MSHM405-144HL 405 395 400 41.07 41.28 41.46 9.69 9.62 977 49.48 49.71 49.94 10.53 10.39 10.46 19.65 19.90 20.15 -40°C~+85°C 1500V 15A Class A 0~+3%

Current-Voltage Curve under different irradiance



ELECTRICAL DATA @ NMOT*

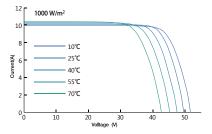
Peak Power (Pmax)	(W)	295	298	302
MPP Voltage (Vmp)	(V)	38.23	38.43	38.60
MPP Current (Imp)	(A)	7.70	7.76	7.82
Open Circuit Voltage (Voc)	(V)	46.87	47.09	47.31
Short Circuit Current (Isc)	(A)	8.38	8.44	8.50

 $^{^*}Under \ Nominal \ Module \ Operating \ Temperature \ (NMOT), Irradiance \ of 800W/m^i, Spectrum \ AM \ 1.5, Ambient \ Temperature \ 20^\circ C, Wind \ Speed \ 1m/s$

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

Current-Voltage Curve under different working temperatures



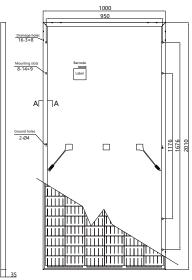
MECHNICAL DATA

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	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 products described herein.





Dimension (unit: mm)



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