DuDrive Series MSHM-144HL



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

385-405W



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 morning & evening time



Mechnical Load Endurance

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



1500V System Voltage

Approved IEC1500Vdc system voltage, saving on BoS cost

LINEAR PERFORMANCE WARRANTY





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

ELECTRICAL DATA @ STC*		385W	390W	395W	4 00 W	405W
Peak Power (Pmax)	(W)	385	390	395	400	405
Maximum Power Voltage (Vmp)	(V)	39.5	41.3	41.5	41.7	41.5
Maximum Power Current (Imp)	(A)	9.76	9.45	9.52	9.60	9.52
Open-circuit Voltage (Voc)	(V)	48.1	49.1	49.3	49.5	49.3
Short-circuit Current (Isc)	(A)	10.08	9.96	10.04	10.12	10.04
Module Efficiency	(%)	18.81	19.05	19.29	19.54	19.78
Operating Temperature				-40°C~+85°C		
Maximum System Voltage				1500V		
Maximum Series Fuse Rating				20A		
Application Class				Class A		
Power Telorance				0~+3%		

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

ELECTRICAL DATA @ NMOT*

Peak Power (Pmax)	(W)	286	290	293	297	301	
MPP Voltage (Vmp)	(V)	36.9	41.4	41.6	41.8	41.6	
MPP Current (Imp)	(A)	7.75	7.06	7.12	7.18	7.12	
Open Circuit Voltage (Voc)	(V)	45.3	48.7	48.9	49.1	48.9	
Short Circuit Current (Isc)	(A)	8.14	7.44	7.49	7.55	7.49	

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

TEMPERATURE CHARACTERISTICS

Temperature coefficient of Pmax	-0.35%/°C
Temperature coefficient of Voc	-0.29%/°C
Temperature coefficient of Isc	0.048%/℃
NMOT	45±2°C

MECHNICAL DATA

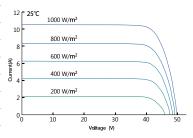
Cell Type	Mono-Crystalline, 158.75×79.38mm
Cell Arrangement	144pcs (2×(6×12))
Dimension (L×W×H)	2008 x 1002 x 40mm
Weight	22.5kg
Front Cover	3.2mm AR coating tempered glass, low iron
Frame	Anodized Aluminium Alloy
Junction Box	IP67, 3 Bypass Diodes
Cable Type	4mm²
Length of Cable	1200mm
Connector	PV Connector

PACKING MANNER

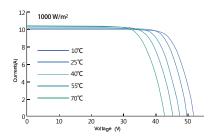
Packing Type	40HQ
Piece/Pallet	27
Pallet/Container	22
Piece/Container	649

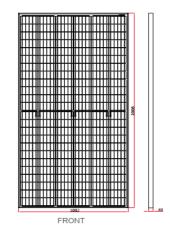
^{*}The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement, Mariosolar. Reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most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

Current-Voltage Curve under different irradiance



Current-Voltage Curve under different working temperatures





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