DuDrive Series MSHM-144H

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

365-390W



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

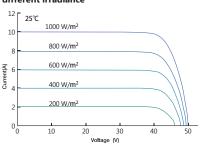




DuDrive Series MSHM-144H Mariosolar High Efficiency Monocrystalline Half-cut Cell Solar Module with Perc Technonoly (1500V)

| ELECTRICAL DATA @ STC* | | MSHM365-144H | H MSHM370-144F | н МЅНМ375-144Н | I MSHM380-144H | I MSHM385-144H | I MSHM390-144H |
|-----------------------------|-----|--------------|----------------|----------------|----------------|----------------|----------------|
| Peak Power (Pmax) | (W) | 365 | 370 | 375 | 380 | 385 | 390 |
| Maximum Power Voltage (Vmp) | (V) | 39.55 | 39.83 | 40.11 | 40.39 | 40.66 | 40.93 |
| Maximum Power Current (Imp) | (A) | 9.23 | 9.29 | 9.35 | 9.41 | 9.47 | 9.53 |
| Open-circuit Voltage (Voc) | (V) | 47.90 | 48.17 | 48.43 | 48.72 | 48.99 | 49.26 |
| Short-circuit Current (Isc) | (A) | 9.99 | 10.06 | 10.13 | 10.19 | 10.25 | 10.32 |
| Module Efficiency | (%) | 18.42 | 18.67 | 18.92 | 19.17 | 19.42 | 19.68 |
| Operating Temperature | | | | -40°C | ~+85°C | | |
| Maximum System Voltage | | | | 150 | 00V | | |
| Maximum Series Fuse Rating | | | | 15 | 5A | | |
| Application Class | | | | Cla | ss A | | |
| Power Telorance | | | | 0~- | +3% | | |

Current-Voltage Curve under different irradiance

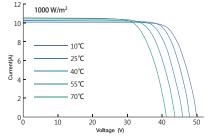


ELECTRICAL DATA @ NMOT*

| Peak Power (Pmax) | (W) | 271 | 274 | 278 | 282 | 285 | 288 |
|-----------------------------|-----|-------|-------|-------|-------|-------|-------|
| MPP Voltage (Vmp) | (V) | 36.42 | 36.68 | 36.93 | 37.19 | 37.69 | 37.94 |
| MPP Current (Imp) | (A) | 7.43 | 7.48 | 7.53 | 7.58 | 7.55 | 7.60 |
| Open Circuit Voltage (Voc) | (V) | 45.18 | 45.44 | 45.68 | 45.96 | 46.26 | 46.51 |
| Short Circuit Current (Isc) | (A) | 8.07 | 8.13 | 8.18 | 8.23 | 8.27 | 8.33 |

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

Current-Voltage Curve under different working temperatures



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 |

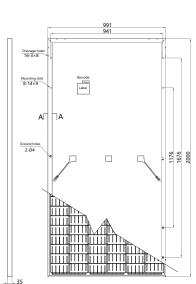
MECHNICAL DATA

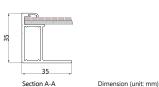
| Mono-Crystalline, 156.75×78.38mm |
|----------------------------------|
| 144pcs (2×(6×12)) |
| 2000×991×35mm |
| 22kg |
| 3.2mm Tempered Glass |
| Anodized Aluminium Alloy |
| IP67, 3 Bypass Diodes |
| 4mm² |
| 1250mm |
| PV Connector |
| |

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.





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*Power measurement tolerance: ±3%



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