MSE PERC 108HC





Positive Power Tolerance -0 to +3%



FRAME-TO-FRAME WARRANTY

Degradation guaranteed not to exceed 2% in year 1 and .55% annually from years 2 to 25 with 84.8% capacity guaranteed in year 25. For more information, visit www.missionsolar.com/warranty

CERTIFICATIONS



If you have questions or concerns about certification of our products in your area, please contact Mission Solar Energy.



Mission Solar Energy is headquartered in San Antonio, Texas where we manufacture our modules. We produce American, high-quality solar modules ensuring the highest-in-class power output and best-in-class reliability. This product is tailored for residential and commercial applications. Every Mission Solar Energy solar module is certified and surpasses industry standard regulations, providing excellent performance over the long term.

America's Module Company®



Fair Trade Practices

- Free of forced labor at all stages of the supply chain
- Not subject to AD/CVD tariffs or investigations
 Polysilicon manufactured with sustainable hydroelectric power

Certified Reliability

- Tested to UL 61730 & IEC Standards
- PID resistant
- Resistance to salt mist corrosion

Advanced Technology

- M10 half-cut cell with 10 busbars
- Passivated Emitter Rear Contact
- Engineered for residential and commercial applications

Extreme Weather Resilience

- Up to 5,400 Pa snow and wind load
- Third-party hail tests exceed 55 mm at 33.9 m/s

BAA Compliant for Government Projects

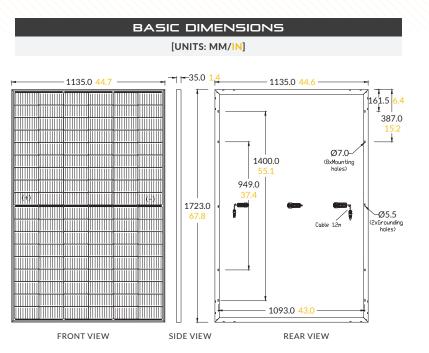
- Buy American Act
- American Recovery & Reinvestment Act





Class Leading

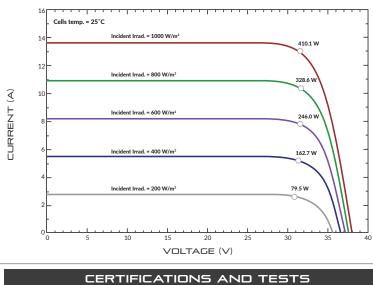
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CURRENT-VOLTAGE CURVE

MSE410HT0B: 410W, 108 HALF-CUT CELL SOLAR MODULE

Current-voltage characteristics with dependence on irradiance and module temperature



IEC 61215, 61730, 61701 UL 61730



Mission Solar Energy

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Mission Solar Energy reserves the right to make specification changes without notice.

C-MKTG-0033 VERSION: 4 VERSION DATE: 07/08/2024

PRODUCT TYPE	MSExxxHT0B (xxx = P _{max})					
Power Output	P _{max}	Wp	400	405	410	
Module Efficiency		%	20.5	20.7	21.0	
Tolerance		%	0/+3	0/+3	0/+3	
Short Circuit Current	Isc	А	13.75	13.82	13.90	
Open Circuit Voltage	Voc	V	37.09	37.27	37.41	
Rated Current	Imp	А	12.92	13.00	13.07	
Rated Voltage	Vmp	V	30.96	31.16	31.38	
Fuse Rating		А	25A	25A	25A	
System Voltage		V	1,000	1,000	1,000	

ECTRICAL SPECIEICATION

TEMPERATURE COEFFICIENTS

Normal Operating Cell Temperature (NOCT)	45.52°C (±3.7%)
Temperature Coefficient of Pmax	-0.343%/°C
Temperature Coefficient of Voc	-0.254%/°C
Temperature Coefficient of Isc	-0.257%/°C

OPERATING CONDITIONS

Maximum System Voltage	1,000Vdc		
Operating Temperature Range	-40°F to 185°F (-40°C to +85°C)		
Maximum Series Fuse Rating	25A		
Fire Safety Classification	Type 1*		
Front & Back Load (UL Standard)	Up to 5,400 Pa front and 5,400 Pa back load. Tested to UL 61730		
Hail Safety Impact Velocity	50mm at 23 m/s		

*Mission Solar Energy uses quality sourced materials that result in a Type 1 fire rating. Please note, the 'Fire Class' Rating is designated for the fully-installed PV system, which includes, but is not limited to, the module, the type of mounting used, pitch and roof composition.

ME	CHANICAL DATA
Solar Cells	P-PERC 182mm x 182mm
Cell Orientation	108 half-cut cells
Module Dimension	1723mm x 1135mm x 35mm
Weight	42 lbs. (19kg)
Front Glass	3.2mm tempered, low-iron, anti-reflective
Frame	35mm anodized interlocking
Encapsulant	Ethylene vinyl acetate (EVA)
Junction Box	Protection class IP68 with 3 bypass-diodes
Cable	1.2m, Wire 4mm ² (12AWG)
Connector	MC4 Staubli PV-KBT4/6II-UR and PV-KST4/6II-UR

SHIPPING INFORMATION								
Container Feet	Ship To	Pallets	Modules	410W Bin				
53'	Most States	26	806	330.46 kW				
Double Stack: (Horizontal Orientation): 31 panels per pallet								
PALLET [31 MODULES]								
Weight 1,610 lbs. (730 kg)	Height 51 in (129.5 cm)		Width 47 in 19.4 cm)	Length 70 in (119.4 cm)				