MSE PERC 108HC





Positive Power Tolerance -0 to +3%



FRAME-TO-FRAME WARRANTY

Degradation guaranteed not to exceed 2% in year one and 0.58% annually from years two to 25 with 84.08% capacity guaranteed in year 25. For more information, visit www.missionsolar.com/warranty

CERTIFICATIONS

If you have questions

products in your area, please contact

Mission Solar Energy.

or concerns about certification of our



UL 61730 / IEC 61215 / IEC 61730 / IEC 61701

True American Quality True American Brand

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. Our product line is tailored for residential, commercial and utility applications. Every Mission Solar Energy solar module is certified and surpasses industry standard regulations, proving excellent performance over the long term.

Demand the best. Demand Mission Solar Energy.



Certified Reliability

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

Advanced Technology Half-cut cell with 10 Busbar

- Passivated Emitter Rear Contact
- Ideal for all applications

- Extreme Weather Resilience
- Up to 5,400 Pa front load & 5,400Pa back load
- Tested load to UL 61730
- In-house hail tests exceed 35 mm

BAA Compliant for Government Projects

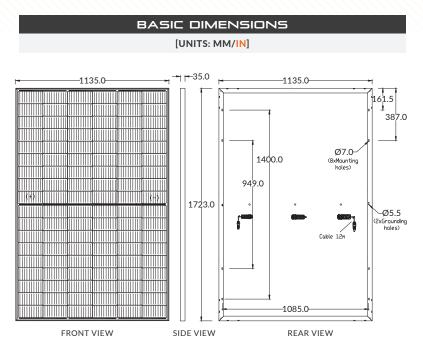
- Buy American Act
- American Recovery & Reinvestment Act





Class Leading

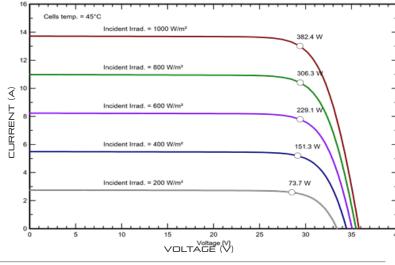
MSE PERC 108HC



CURRENT-VOLTAGE CURVE

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

Current-voltage characteristics with dependence on irradiance and module temperature



CERTIFICATIONS AND TESTS

IEC UL 61215, 61730, 61701 61730



Mission Solar Energy

8303 S. New Braunfels Ave., San Antonio, Texas 78235 www.missionsolar.com | info@missionsolar.com

Mission Solar Energy reserves the right to make specification changes without notice. C-SA2-MKTG-0030 $\,$ REV 0 $\,$ 09/02/2022 $\,$

ELECTRICAL SPECIFICATION							
PRODUCT TYPE	MSExxxHT0B (xxx = P _{max})						
Power Output	Pmax	W_{p}	400	405	410		
Module Efficiency		%	20.5	20.7	21.0		
Tolerance		%	0/+3	0/+3	0/+3		
Short Circuit Current	lsc	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		

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	0.027%/°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	25mm 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.

MECHANICAL DATA		
Solar Cells	P-type mono-crystalline silicon	
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	
Encapsulant	Ethylene vinyl acetate (EVA)	
Junction Box	Protection class IP67 with 3 bypass-diodes	
Cable	1.2m, Wire 4mm2 (12AWG)	
Connector	MC4 Staubli PV-KBT4/6II-UR and PV-KST4/6II-UR	

SHIPPING INFORMATION								
Container Feet	Ship To	Pallet	Panels	405W Bin				
53'	Most States	30	780	315.90 kW				
Double Stack	CA	26	676	273.78 kW				
PALLET [26 PANELS]								
Weight 1,300 lbs. (572 kg)	Height 47.56 in (120.80 cm)		Width 46 in 16.84 cm)	Length 77 in (195.58 cm)				