MSE PERC 72





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 30 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

- 9 Busbar
- Passivated Emitter Rear Contact
- Ideal for all applications

Extreme Weather Resilience

- Up to 5,400 Pa front load & 3,600 Pa back load
- Tested load to UL 61730
- 40 mm frame

BAA Compliant for Government Projects

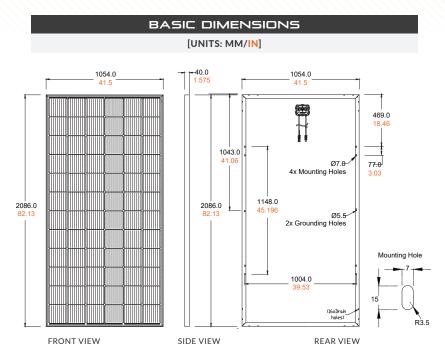
- Buy American Act
- American Recovery & Reinvestment Act





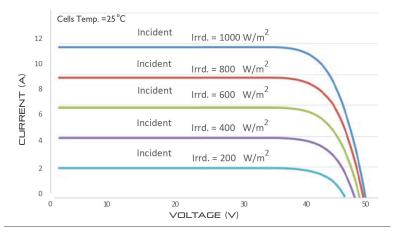
Class Leading

MSE PERC 72



CURRENT-VOLTAGE CURVE MSE4155X9Z: 415WP, 72 CELL SOLAR MODULE

Current-voltage characteristics with dependence on irradiance and module temperature





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-0031 $\,$ REV 0 $\,$ 09/02/2022 $\,$

ELECTRICAL SPECIFICATION							
PRODUCT TYPE	MSExxxSX9Z (xxx = P _{max})						
Power Output	Pmax	W_{p}	425	430	435		
Module Efficiency		%	19.3	19.6	19.8		
Tolerance		%	0/+3	0/+3	0/+3		
Short Circuit Current	lsc	А	11.19	11.24	11.31		
Open Circuit Voltage	Voc	V	49.14	49.28	49.42		
Rated Current	Imp	А	10.62	10.66	10.78		
Rated Voltage	Vmp	V	40.01	40.32	40.34		
Fuse Rating		А	20	20	20		
System Voltage		V	1,500	1,500	1,500		

TEMPERATURE COEFFICIENTS

Normal Operating Cell Temperature (NOCT)	46.08°C (±3.7%)
Temperature Coefficient of Pmax	-0.347%/°C
Temperature Coefficient of Voc	-0.261%/°C
Temperature Coefficient of Isc	0.043%/°C

OPERATING CONDITIONS

Maximum System Voltage	1,500Vdc		
Operating Temperature Range	-40°F to 185°F (-40°C to +85°C)		
Maximum Series Fuse Rating	20A		
Fire Safety Classification	Type 1*		
Front & Back Load (UL Standard)	5400 Pa front and 3600 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.

ME	
Solar Cells	P-type mono-crystalline silicon
Cell Orientation	72 cells (6x12)
Module Dimension	2,086mm x 1,054mm x 40mm
Weight	51.6 lbs. (23.4 kg)
Front Glass	3.2mm tempered, low-iron, anti-reflective
Frame	40mm Anodized
Encapsulant	Ethylene vinyl acetate (EVA)
Junction Box	Protection class IP67 with 3 bypass-diodes
Cable	1.4m, Wire 4mm2 (12AWG)
Connector	MC4 Staubli PV-KBT4-EV0 2/6II-UR and PV- KST4-EVO 2/6II-UR, Renhe 05-8, RHC2

SHIPPING INFORMATION							
Container Feet	Ship To	Pallet	Panels	425W Bin			
53'	Most States	28	728	309.40 kW			
Double Stack	CA	25	650	276.25 kW			
PALLET [26 PANELS]							
Weight 1,450 lbs. (657 kg)	Height 47.5 in (120.65 cm)) (11	Width 46 in 16.84 cm)	Length 83.75 in (212.72 cm)			