



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

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

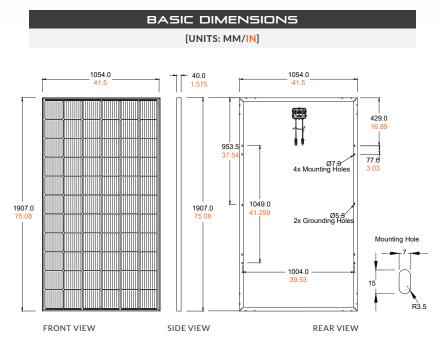
- Buy American Act
- American Recovery & Reinvestment Act





UL 61730 / IEC 61215 / IEC 61730 / IEC 61701

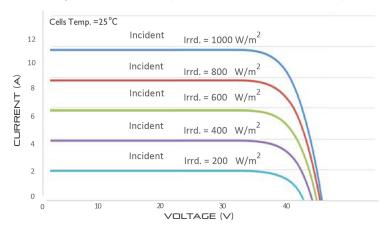
MSE PERC 66



CURRENT-VOLTAGE CURVE

MSE385SX9R: 385WP, 66 CELL SOLAR MODULE

Current-voltage characteristics with dependence on irradiance and module temperature



CERTIFICATIONS AND TESTS			
IEC	61215, 61730, 61701		
UL	61730		



CEC



Mission Solar Energy

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ELECTRICAL SPECIFICATION					
PRODUCT TYPE	MSExxxSX9R (xxx = P _{max})				
Power Output	P _{max}	$W_{p} \\$	390	395	400
Module Efficiency		%	19.4	19.7	19.9
Tolerance		%	0/+3	0/+3	0/+3
Short Circuit Current	Isc	Α	11.19	11.24	11.31
Open Circuit Voltage	Voc	V	45.04	45.18	45.33
Rated Current	I _{mp}	Α	10.63	10.68	10.79
Rated Voltage	V_{mp}	V	36.68	36.99	37.07
Fuse Rating		Α	20	20	20
System Voltage		V	1,000	1,000	1,000

TEMPERATURE COEFFICIENTS			
Normal Operating Cell Temperature (NOCT)	43.75°C (±3.7%)		
Temperature Coefficient of Pmax	-0.367%/°C		
Temperature Coefficient of Voc	-0.259%/°C		
Temperature Coefficient of Isc	0.033%/°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	20A		
Fire Safety Classification	Type 1*		
Front & Back Load (UL Standard)	Up to 5,400 Pa front and 3,600 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	66 cells (6x11)	
Module Dimension	1,907mm x 1,054mm x 40mm	
Weight	48.5 lbs. (22 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	1.2m, Wire 4mm2 (12AWG)	
Connector	Staubli PV-KBT4/6II-UR and PV-KST4/6II-UR, MC4, Renhe 05-8	

SHIPPING INFORMATION					
Container Feet	Ship To	Pallet	Panels	390W Bin	
53'	Most States	30	780	304.20 kW	
Double Stack	CA	26	676	263.64 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)	