



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% 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

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



Extreme Weather Resilience

- Up to 5,600 Pa front load & 5,631 Pa back load
- Tested load to UL 61730
- 40 mm frame



BAA Compliant for Government Projects

- Buy American Act
- American Recovery & Reinvestment Act

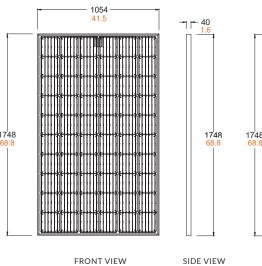




UL 61730 / IEC 61215 / IEC 61730 / IEC 61701

MSE PERC 60

BASIC DIMENSIONS [UNITS: MM/IN]



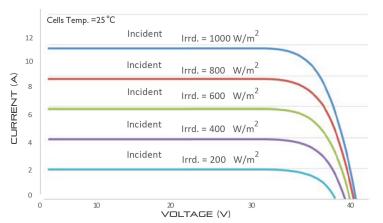
1748 68.8 Grounding Hole (x2)

REAR VIEW

CURRENT-VOLTAGE CURVE

MSE345SX5T: 345WP, 60 CELL SOLAR MODULE

Current-voltage characteristics with dependence on irradiance and module temperature



CERTIFICATIONS AND TESTS			
IEC	61215, 61730, 61701		
UL	61730		



CEC



ELECTRICAL SPECIFICATION					
PRODUCT TYPE	MSE	xxxSX	5T (xxx = P	max)	
Power Output	P _{max}	W_p	340	345	350
Module Efficiency		%	18.5	18.7	19.0
Tolerance		%	0/+3	0/+3	0/+3
Short Circuit Current	Isc	V	10.86	10.92	10.97
Open Circuit Voltage	Voc	Α	40.82	41.00	41.18
Rated Current	Imp	V	10.24	10.34	10.44
Rated Voltage	V_{mp}	V	33.20	33.37	33.52
Fuse Rating		Α	20	20	20
System Voltage		V	1,000	1,000	1,000

TEMPERATURE COEFFICIENTS			
Normal Operating Cell Temperature (NOCT)	44.43°C (±3.7%)		
Temperature Coefficient of Pmax	-0.361%/°C		
Temperature Coefficient of Voc	-0.262%/°C		
Temperature Coefficient of Isc	0.039%/°C		

OPERATING CONDITIONS			
Maximum System Voltage	1,000Vdc		
Operating Temperature Range	-40°C (-40°F) to +85°C (185°F)		
Maximum Series Fuse Rating	20A		
Fire Safety Classification	Type 1		
Front & Back Load (UL Standard)	Up to 5,600 Pa front and 5,631 Pa back load, Tested to UL 61730		
Hail Safety Impact Velocity	25mm at 23 m/s		

MECHANICAL DATA		
Solar Cells	P-type mono-crystalline silicon	
Cell Orientation	60 cells (6x10)	
Module Dimension	1748mm x 1054mm x 40mm	
Weight	20.3 kg (44.8 lbs.)	
Front Glass	3.2mm, tempered, low-iron, anti-reflective	
Frame	Anodized	
Encapsulant	Ethylene vinyl acetate (EVA)	
Junction Box	Protection class IP67 with 3 bypass-diodes	
Cable	1.0m, 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	345 W Bin	
53'	Most States	34	884	304.98 kW	
Double Stack	CA	28	728	251.16 kW	
PALLET [26 PANELS]					
Weight 1263 lbs. (573 kg)	Height 47.5 in (120.65 cm)	(1:	Width 46 in 16.84 cm)	Length 70.25 in (178.43 cm)	