

315-325W

CLASS LEADING POWER OUTPUT

19.24%

MAXIMUM EFFICIENCY

-0~+3%

POSITIVE POWER TOLERANCE

High-Power, American Quality

Mission Solar Energy is headquartered in San Antonio, TX., with module production facilities on-site. We produce American quality solar modules ensuring the highest power output and reliability to our customers. Our product line is well suited 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.

MSE PERC 60

High Power PERC Rooftop Module



CERTIFIED RELIABILITY

- > Tested to UL1703 & IEC standards
- > PID resistant



ADVANCED TECHNOLOGY

- > PERC and 5 busbar drive >19.2% module efficiency
- > Ideal for residential applications

EXTREME WEATHER RESILIENCE

ightarrow 5631 Pa front and back load (117 psf) tested load to UL1703

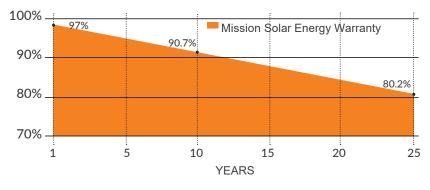


BAA COMPLIANT FOR GOVERNMENT PROJECTS

Buy American Act
American Recovery & Reinvestment Act



FRAME-TO-FRAME WARRANTY[™]



CERTIFICATIONS

IEC 61215 - IEC 61730 - IEC 61701 - UL 1703 - Salt mist



Please contact Mission Solar Energy if you have questions or concerns about certification of our products in your area.

*Standard 12-year product warranty extendable to 25 years with registration: https://www.missionsolar.com/warranty/



PERC 60

ELECTRICAL SPECIFICATIONS

Electrical Parameters at Standard Test Conditions (STC)

Module Type			MSE315SR8T	MSE320SR8T	MSE325SR8T
Power Output	Pmax	Wp	315	320	325
Module Efficiency		%	18.65	18.94	19.24
Tolerance			0~+3%	0~+3%	0~+3%
Short-Circuit Current	lsc	А	9.997	10.028	10.060
Open Circuit Voltage	Voc	V	40.44	40.80	41.14
Rated Current	Imp	А	9.253	9.351	9.387
Rated Voltage	Vmp	V	34.04	34.22	34.62
Fuse Rating			20	20	20

TEMPERATURE COEFFICIENTS

Normal Operating Cell Temperature (NOCT)	46.09°C (±2°C)		
Temperature Coefficient of Pmax	-0.377% / °C		
Temperature Coefficient of Voc	-0.280% / °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, Class C
Front & Back Load (UL standard)	5631 Pa (117 psf) Tested to UL1703 standard
Hail Safety Impact Velocity	25mm at 23 m/s

MECHANICAL DATA

Solar Cells	P-type mono-crystalline silicon (158.75mm)				
Cell Orientation	60 cells (6x10), 5 busbar				
Module Dimension	1676mm x 1008mm x 40mm (65.98 in. x 39.68 in. x 1.58 in.)				
Weight	20 kg (44lb)				
Front Glass	3.2mm (0.126 in.) tempered, low-iron, anti-reflective coating				
Frame	Anodized aluminum alloy				
Encapsulant	Ethylene vinyl acetate (EVA)				
J-Box	Protection class IP67 with 3 bypass-diodes				
Cables	PV wire, 1m (39.37 in.), 4mm ² / 12 AWG				
Connector	MC4 Compatible				

SHIPPING INFORMATION

Container FT		Pallets	Panels	320 W	
53'	Double stack	36	936	299.52 kW	
40'	Double stack	28	728	232.96 kW	
	Panels	Weight	Height	Width	Length
Pallet	26	1,198lbs	42.45"	45.50"	67.00"

CLASS LEADING 315-325W

CERTIFICATIONS & TESTS

IEC

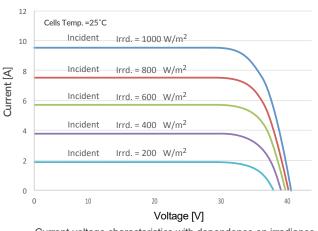
61215 - 61730 - 61701 - Salt mist

UL

UL 1703 listed

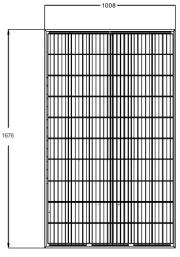


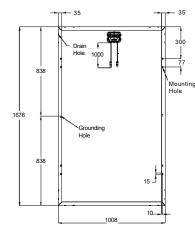
MSE320SR8T: 320WP, 60 CELL SOLAR MODULE CURRENT - VOLTAGE CURVE



Current-voltage characteristics with dependence on irradiance and module temperature

BASIC DESIGN (UNITS: mm)





Front View

Back View



Mission Solar Energy reserves the right to make specification changes without notice DOCUMENT #: C-SA2-MKTG-0018 REVISION #: R1 REVISION DATE: 1/13/2020