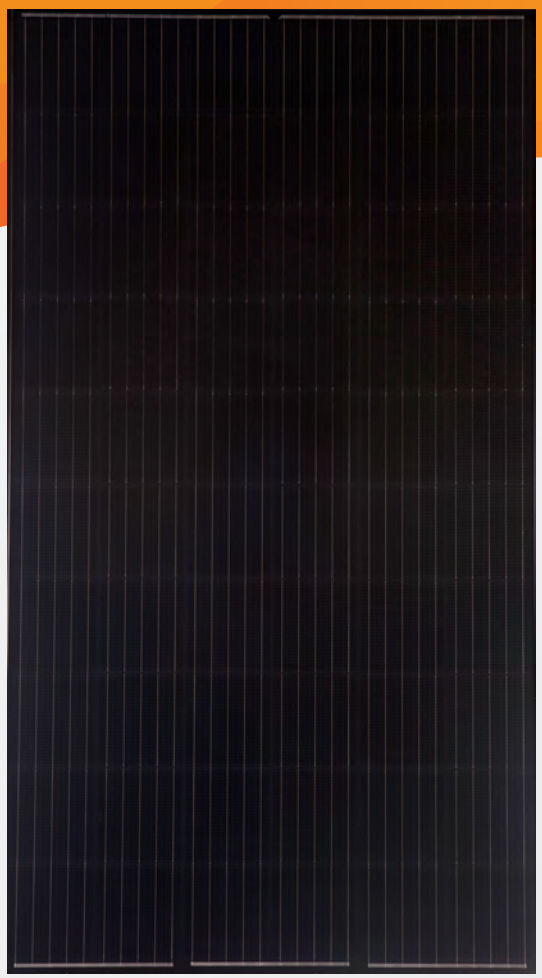
RESIDENTIAL | COMMERCIAL

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

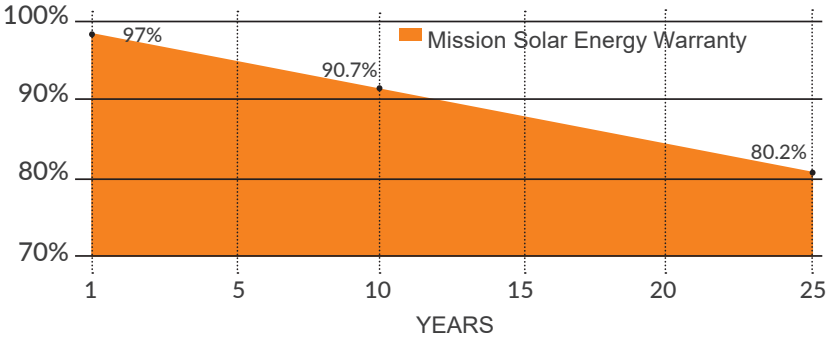
EXTREME WEATHER RESILIENCE
› 5631 Pa front and back load (117 psf) tested load to UL1703

BAA COMPLIANT FOR GOVERNMENT PROJECTS
› Buy American Act
› American Recovery & Reinvestment Act

25 YEAR FRAME-TO-FRAME WARRANTY

MADE IN THE USA – Modules Assembled & Designed & Engineered of U.S. and non-U.S. parts ™

FRAME-TO-FRAME WARRANTY™



315-325W
CLASS LEADING POWER OUTPUT

19.24%
MAXIMUM EFFICIENCY

-0~+3%
POSITIVE POWER TOLERANCE

CERTIFICATIONS

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

c UL us LISTED CEC TÜV SÜD

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/

America's Module Company

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.

MISSION SOLAR ENERGY™

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DOCUMENT #: C-SA2-MKTG-0018 REVISION #: R2 REVISION DATE: 3/17/2020

PERC 60

CLASS LEADING 315-325W

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	Isc	A	9.997	10.028	10.060
Open Circuit Voltage	Voc	V	40.44	40.80	41.14
Rated Current	Imp	A	9.253	9.351	9.387
Rated Voltage	Vmp	V	34.04	34.22	34.62
Fuse Rating			20	20	20

CERTIFICATIONS & TESTS

IEC

61215 - 61730 - 61701 - Salt mist

UL

UL 1703 listed

c UL us LISTED CEC TÜV SÜD

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

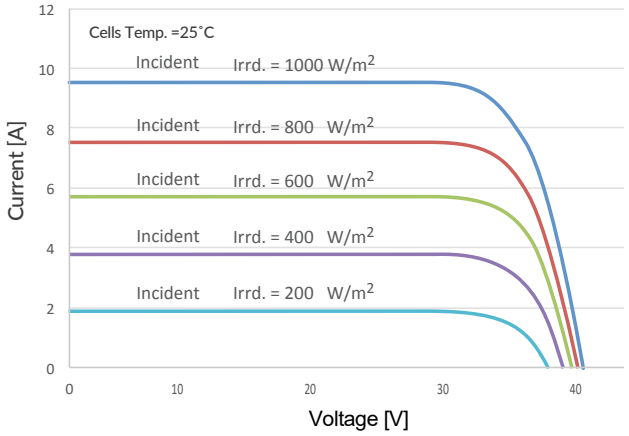
Solar Cells	P-type mono-crystalline silicon (158.75mm)
Cell Orientation	60 cells (6x10), 5 busbar
Module Dimension	1676mm x 1008mm x 40mm (65.98 in. x 39.68 in. x 1.58 in.)
Weight	20 kg (44lb)
Front Glass	3.2mm (0.126 in.) tempered, low-iron, anti-reflective coating
Frame	Anodized aluminum alloy
Encapsulant	Ethylene vinyl acetate (EVA)
J-Box	Protection class IP67 with 3 bypass-diodes
Cables	PV wire, 1m (39.37 in.), 4mm² / 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

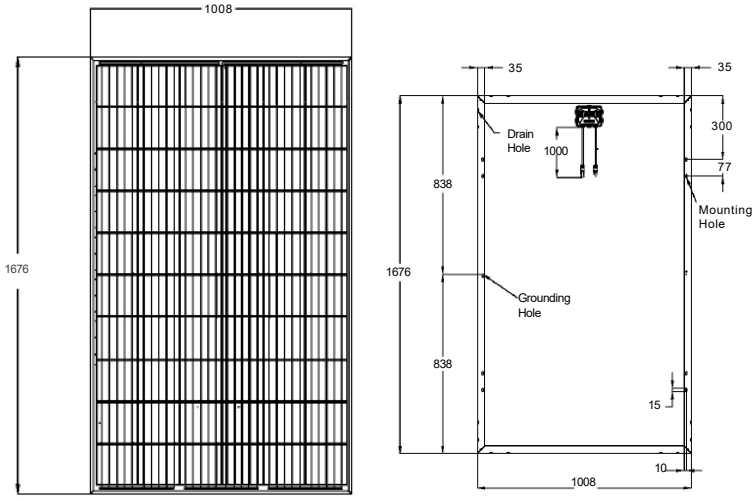
	Panels	Weight	Height	Width	Length
Pallet	26	1,198lbs	42.45"	45.50"	67.00"

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**

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