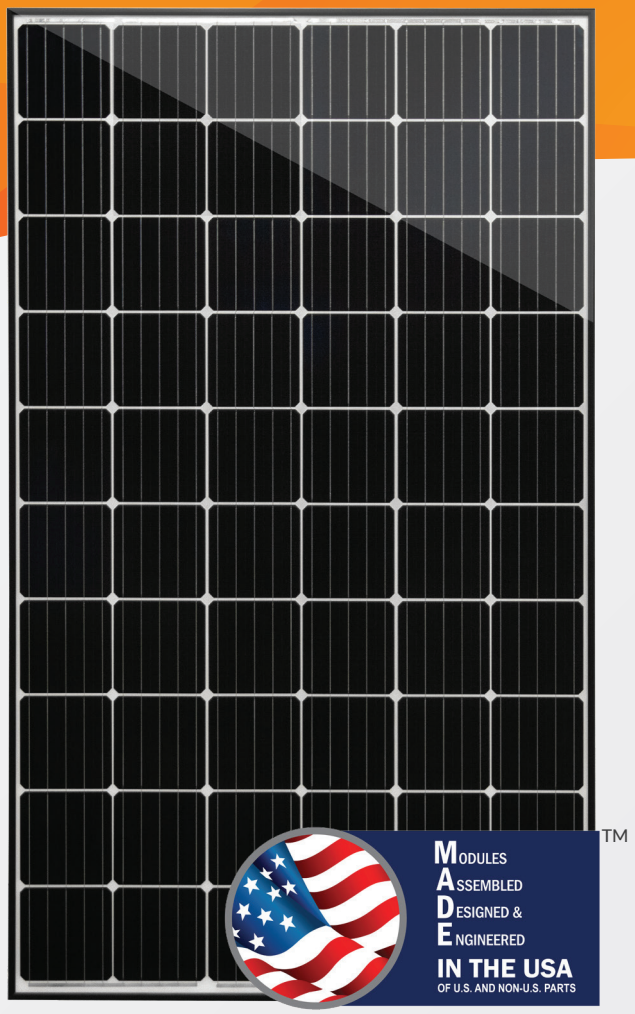
RESIDENTIAL | COMMERCIAL

MSE PERC 60

High Power PERC Rooftop Module

White Backsheet PERC with 5 busbars technology



TM

CERTIFIED RELIABILITY
› Tested to UL1703 & IEC standards
› PID Resistant

ADVANCED TECHNOLOGY
› PERC and 5 busbar drive >18% module efficiency
› Ideal for residential & commercial applications

EXTREME WEATHER RESILIENCE
› 5631Pa snow load (117 psf) tested load to UL1703
› 185 mph wind rating*

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

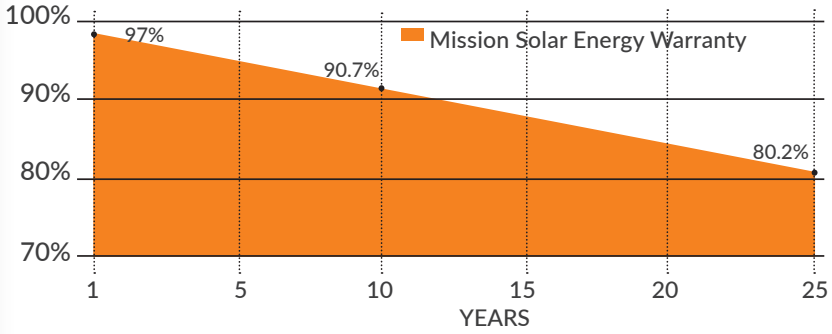
305-315W
CLASS LEADING POWER OUTPUT

18.95%
MAXIMUM EFFICIENCY

-0~+3%
POSITIVE POWER TOLERANCE

25-YEAR
LINEAR WARRANTY

12-YEAR
PRODUCT WARRANTY



CERTIFICATIONS

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

TÜVRheinland · TÜVRheinland CERTIFIED · c UL us LISTED · PowerGuard SPECIALTY INSURANCE SERVICES · CEC

*As there are different certification requirements in different markets, please contact your local Mission Solar Energy sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

*185 mph wind rating based upon installation at 30° fixed tilt mount

High-Power, American Quality

Mission Solar Energy is headquartered in San Antonio, TX with module facilities onsite. We produce American quality poducts 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 product is certified and surpasses industry standard regulations, proving excellent performance over the long-term.

www.missionsolar.com | info@missionsolar.com

MISSION SOLAR ENERGY™

PERC 60

CLASS LEADING 305-315W

ELECTRICAL SPECIFICATIONS

Electrical Parameters at Standard Test Conditions (STC)

Module Type			MSE305SQ8K	MSE310SQ8K	MSE315SQ8K
Power Output	Pmax	Wp	305	310	315
Module Efficiency		%	18.35	18.65	18.95
Tolerance			0~+3%	0~+3%	0~+3%
Short-Circuit Current	Isc	A	9.723	9.819	9.917
Open Circuit Voltage	Voc	V	39.96	40.09	40.13
Rated Current	Imp	A	9.238	9.362	9.465
Rated Voltage	Vmp	V	33.02	33.11	33.28
Fuse Rating			20	20	20

CERTIFICATIONS & TESTS

IEC

61215 / 61730 / 61701, Salt mist

UL

UL 1703 listed

TEMPERATURE COEFFICIENTS

Normal Operating Cell Temperature (NOCT)	46.43°C (±2°C)
Temperature Coefficient of Pmax	-0.375%/°C
Temperature Coefficient of Voc	-0.280%/°C
Temperature Coefficient of Isc	0.045%/°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 2, Class C
Front & Back Load (UL standard)	5631Pa (117 psf) Tested to UL1703 standar
Hail Safety Impact Velocity	25mm at 23 m/s

MECHANICAL DATA

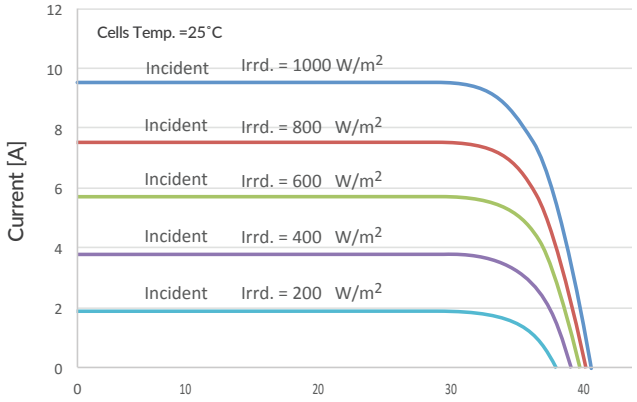
Solar Cells	P-type Mono-crystalline Silicon (156.75mm)
Cell orientation	60 cells (6x10), 5 busbar
Module dimension	1664mm x 999mm x 40mm (65.53 in. x 39.33 in. x 1.58 in.)
Weight	18.2 kg (40.1 lb)
Front Glass	3.2mm (0.126 in.) tempered, Low-iron, Anti-reflective coating
Frame	Anodized aluminum alloy
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

SHIPPING INFORMATION

Container FT		Pallets	Panels	305 W
53'	Double stack	36	936	285.48 kW
40'	Double stack	28	728	222.04 kW

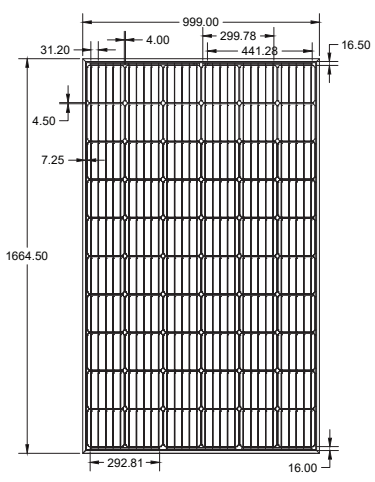
	Panels	Weight	Height	Width	Length
Pallet	26	1,105lbs	45.50"	45.50"	67.00"

MSE310SQ8K: 310WP, 60CELL SOLAR MODULE CURRENT-VOLTAGE CURVE

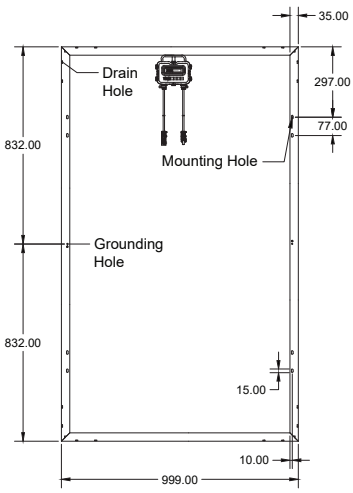


Current-voltage characteristics with dependence on irradiance and module temperature

BASIC DESIGN (UNITS: mm)



Front View



Back View