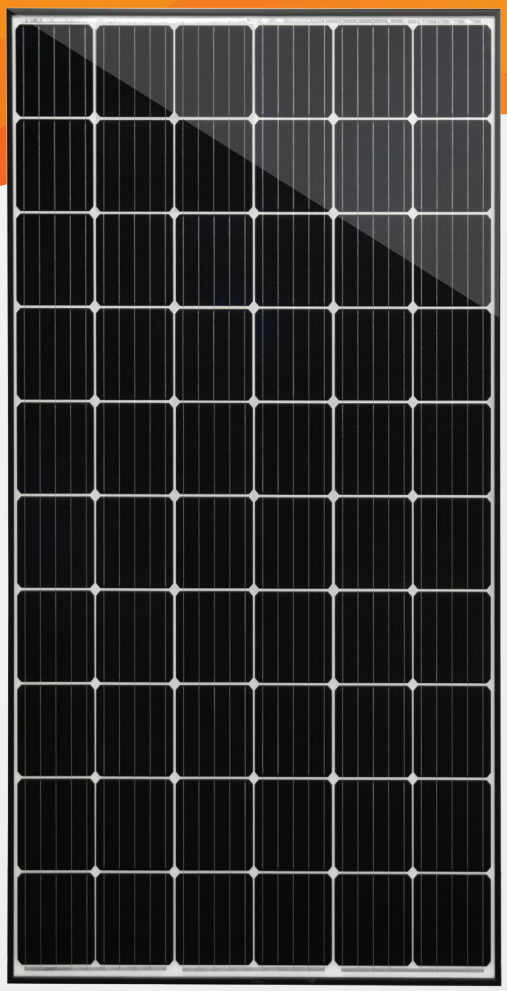
AMERICA'S MODULE COMPANY™

MSE PERC 60



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

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

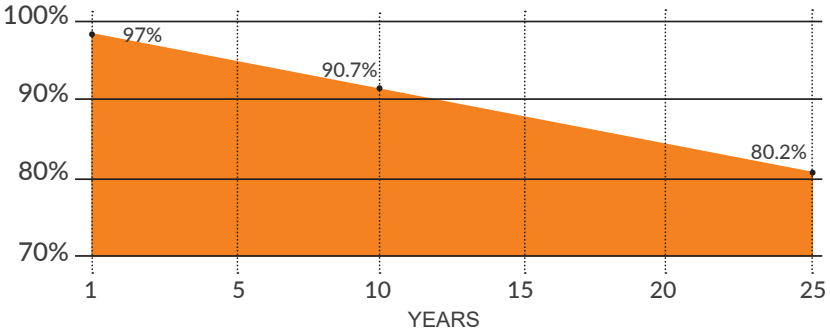
EXTREME WEATHER RESILIENCE
› 5631Pa front and back load (117 psf) tested load to UL1703

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

25 YEAR FRAME-TO-FRAME WARRANTY

MADE MODULES ASSEMBLED DESIGNED & ENGINEERED IN THE USA OF U.S. AND NON-U.S. PARTS ™

FRAME-TO-FRAME WARRANTY



305-315W

CLASS LEADING POWER OUTPUT

18.95%

MAXIMUM EFFICIENCY

-0~+3%

POSITIVE POWER TOLERANCE

CERTIFICATIONS

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

TÜVRheinland · TÜVRheinland CERTIFIED · c UL us LISTED · CEC · TÜV SÜD · FSEC-Certified Standard 201

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

[1] Standard 12-year product warranty extendable to 25 years with registration.

The True American Brand

Mission Solar Energy is headquartered in San Antonio, TX., where we manufacture our modules. We produce American, high quality solar modules ensuring the highest in class power output and best in-class reliability to our customers. 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.

www.missionsolar.com | info@missionsolar.com

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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 1, Class C
Front & Back Load (UL standard)	5631Pa (117 psf) Tested to UL1703 standard
Hail Safety Impact Velocity	25mm at 23 m/s

MECHANICAL DATA

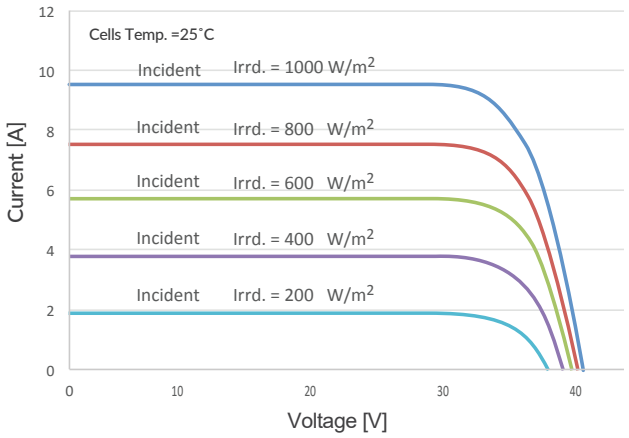
Solar Cells	P-type mono-crystalline silicon (156.75mm)
Cell Orientation	60 cells (6x10), 5 busbar
Module Dimension	1664mm x 999mm x 40mm (65.53 in. x 39.33 in. x 1.58 in.)
Weight	18.2 kg (40.1 lb)
Front Glass	3.2mm (0.126 in.) tempered, low-iron, anti-reflective coating
Frame	Anodized aluminum alloy
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	315 W
53'	Double stack	36	936	294.48 kW
40'	Double stack	28	728	229.32 kW

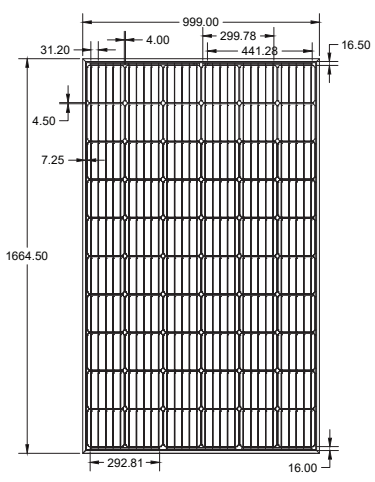
	Panels	Weight	Height	Width	Length
Pallet	26	1,105lbs	45.50"	45.50"	67.00"

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

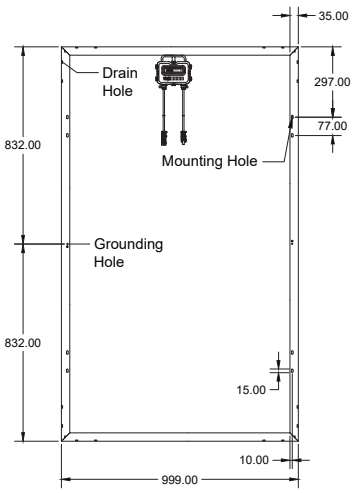


Current-voltage characteristics with dependence on irradiance and module temperature

BASIC DESIGN (UNITS: mm)



Front View



Back View

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