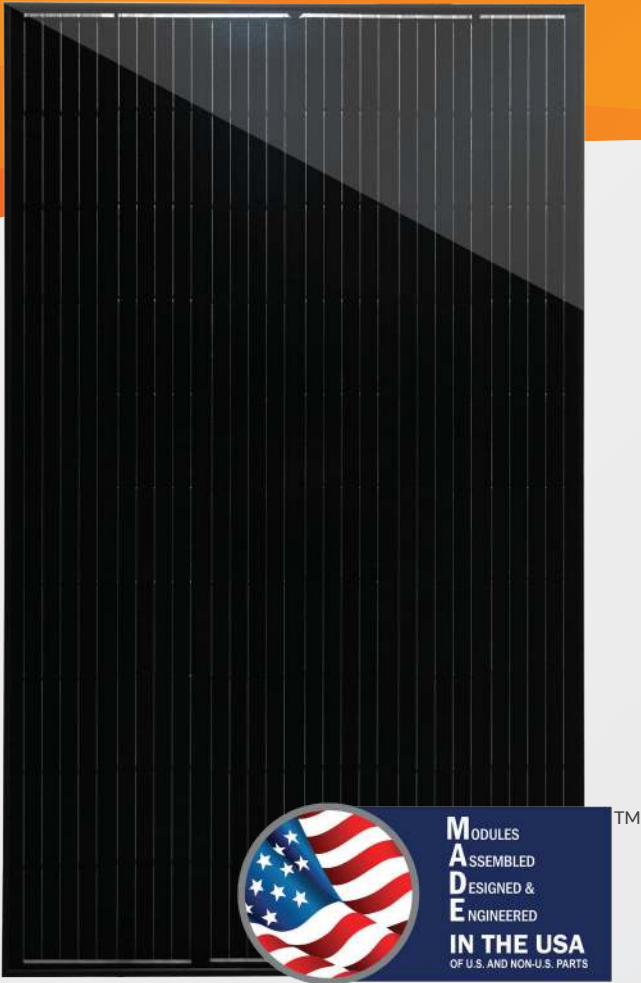


# MSE PERC 60

High Power PERC Rooftop Module

All-black PERC with 5 busbar technology



## CERTIFIED RELIABILITY

- › Tested to 3X IEC Standards
- › PID Resistant



## SUPERIOR AESTHETICS

- › All-black design coupled with outstanding power output
- › Ideal for residential & commercial applications



## EXTREME WEATHER RESILIENCE

- › 5600 Pa snow load (117 psf)
- › 175 mph wind rating



## BAA COMPLIANT FOR GOVERNMENT PROJECTS

- › Buy American Act
- › American Recovery & Reinvestment Act



LINEAR WARRANTY



PRODUCT WARRANTY

# 300W

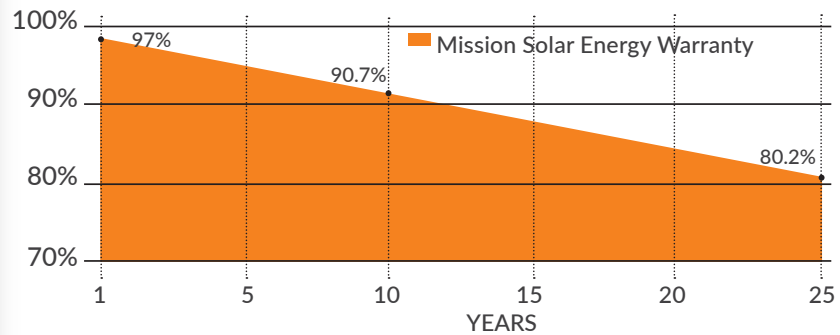
CLASS LEADING POWER OUTPUT

# 18.05%

MAXIMUM EFFICIENCY

# -0~+3%

POSITIVE POWER TOLERANCE



## CERTIFICATIONS

IEC 61215/ IEC 61730/ IEC 61701 UL 1703



CEC

## High-Power, American Quality

Mission Solar Energy is headquartered in San Antonio, TX with module facilities onsite. We produce American quality products 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.



## ELECTRICAL SPECIFICATIONS

Electrical Parameters at Standard Test Conditions (STC)

Module Type		MSE300SQ8T	
Power Output	P <sub>max</sub>	W <sub>p</sub>	300
Module Efficiency		%	18.05
Tolerance			0~+3%
Short-Circuit Current	I <sub>sc</sub>	A	9.571
Open Circuit Voltage	V <sub>oc</sub>	V	40.08
Rated Current	I <sub>mp</sub>	A	9.058
Rated Voltage	V <sub>mp</sub>	V	33.12
Fuse Rating			15

## TEMPERATURE COEFFICIENTS

Normal Operating Cell Temperature (NOCT)	44°C (±2°C)
Temperature Coefficient of P <sub>max</sub>	-0.427%/°C
Temperature Coefficient of V <sub>oc</sub>	-0.318%/°C
Temperature Coefficient of I <sub>sc</sub>	0.042%/°C

## OPERATING CONDITIONS

Maximum System Voltage	1,000VDC
Operating Temperature Range	-40°C (-40°F) to +90°C (194°F)
Maximum Series Fuse Rating	20A
Fire Safety Classification	Type 1, Class C
Front & Back Load (UL standard)	5600 Pa (117 psf)
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 (65.51 in. x 39.33 in. x 1.57 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.), 4mm <sup>2</sup> / 12 AWG
Connector	MC4 or compatible

## SHIPPING INFORMATION

Container FT		Pallets	Panels	300W		
53'	Double stack	36	936	280.80kW		
40'	Double stack	28	728	218.40kW		
Pallet		Panels	Weight	Height	Width	Length
		26	1,160lbs	45.15"	45.00"	66.00"

## CERTIFICATIONS & TESTS

IEC

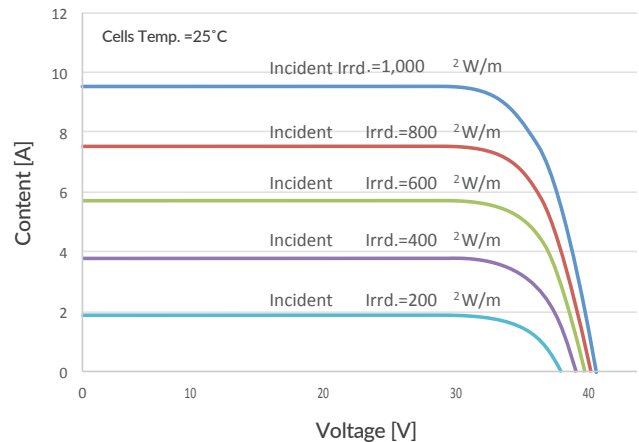
61215 / 61730 / 61701, Salt mist

UL

UL 1703 listed



## MSE300SQ8T: 300WP, 60CELL SOLAR MODULE CURRENT-VOLTAGE CURVE



Current-voltage characteristics with dependence on irradiance and module temperature

## BASIC DESIGN (UNITS: mm)

