

MSE PERC 60

High Power PERC Rooftop Module
All-black PERC with 5 busbar technology



CERTIFIED RELIABILITY

- › Tested to UL1703 & IEC standards
- › PID Resistant



SUPERIOR AESTHETICS

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



EXTREME WEATHER RESILIENCE

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



BAA COMPLIANT FOR GOVERNMENT PROJECTS

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



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

300-310W

CLASS LEADING POWER OUTPUT

18.65%

MAXIMUM EFFICIENCY

-0~+3%

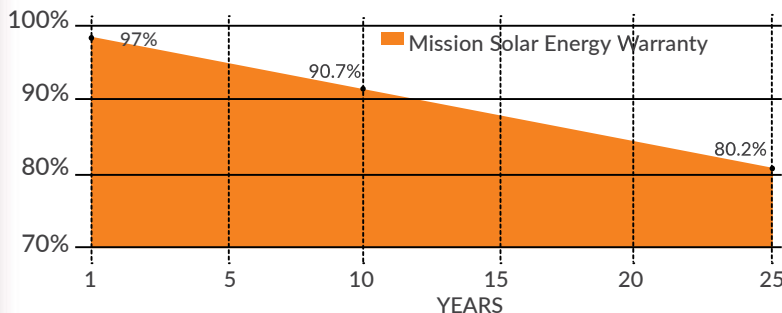
POSITIVE POWER TOLERANCE

25-YEAR

LINEAR WARRANTY

12-YEAR

PRODUCT WARRANTY



CERTIFICATIONS

IEC 61215/ IEC 61730/ IEC 61701 UL 1703



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° or less fixed tilt mount

MISSION SOLAR
ENERGY



PERC 60

ELECTRICAL SPECIFICATIONS

Electrical Parameters at Standard Test Conditions (STC)

Module Type			MSE300SQ8T	MSE305SQ8T	MSE310SQ8T
Power Output	Pmax	Wp	300	305	310
Module Efficiency		%	18.05	18.35	18.65
Tolerance			0~+3%	0~+3%	0~+3%
Short-Circuit Current	Isc	A	9.571	9.664	9.760
Open Circuit Voltage	Voc	V	40.08	40.10	40.12
Rated Current	Imp	A	9.058	9.202	9.345
Rated Voltage	Vmp	V	33.12	33.14	33.17
Fuse Rating			15	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	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.), 4mm ² / 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"

CLASS LEADING 300-310W

CERTIFICATIONS & TESTS

IEC

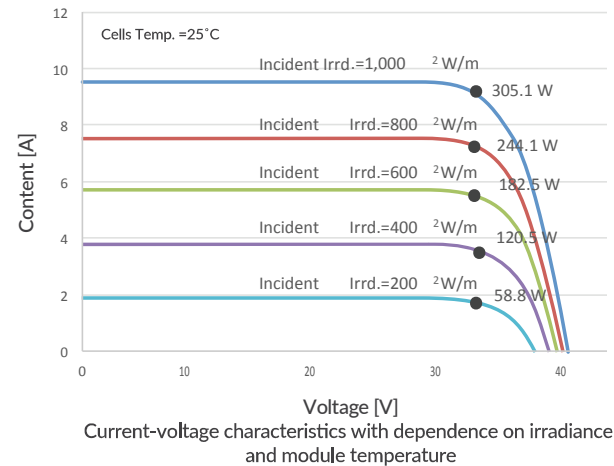
61215 / 61730 / 61701

UL

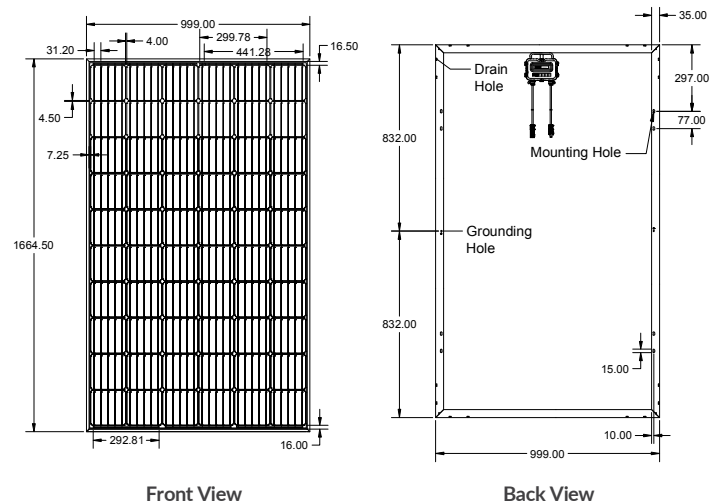
UL 1703 listed



MSE305SQ8T: 305WP, 60CELL SOLAR MODULE CURRENT-VOLTAGE CURVE



BASIC DESIGN (UNITS: mm)



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