AMERICA'S MODULE COMPANY[™] MSE PERC 72



380-390W

CLASS LEADING POWER OUTPUT

19.35%

MAXIMUM EFFICIENCY

-0~+3%

POSITIVE POWER TOLERANCE

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.



CERTIFIED RELIABILITY

Tested to UL1703 & IEC standards
PID resistant



ADVANCED TECHNOLOGY

- > PERC and 5 busbar drive >19.3% module efficiency
- Ideal for all applications

EXTREME WEATHER RESILIENCE

> 5631 Pa front and back load (117 psf) tested load to UL1703

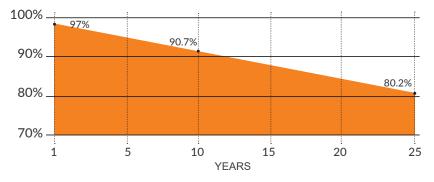


BAA COMPLIANT FOR GOVERNMENT PROJECTS

- Buy American Act
- > American Recovery & Reinvestment Act



FRAME-TO-FRAME WARRANTY[™]



CERTIFICATIONS

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



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/



PERC 72

ELECTRICAL SPECIFICATIONS

Electrical Parameters at Standard Test Conditions (STC)

Module Type			MSE375SR9S	MSE380SR9S	MSE385SR9S	MSE390SR9S
Power Output	Pmax	Wp	375	380	385	390
Module Efficiency		%	18.61	18.86	19.11	19.35
Tolerance			0~+3%	0~+3%	0~+3%	0~+3%
Short-Circuit Current	lsc	А	9.939	9.966	9.993	10.024
Open Circuit Voltage	Voc	V	48.02	48.31	48.53	48.96
Rated Current	Imp	А	9.360	9.385	9.426	9.499
Rated Voltage	Vmp	V	40.06	40.49	40.84	41.05
Fuse Rating			20	20	20	20

CLASS LEADING 380-390W

CERTIFICATIONS & TESTS

IEC

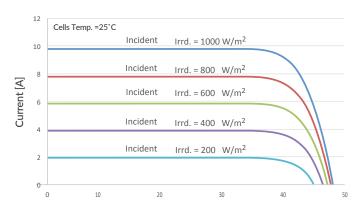
61215 - 61730 - 61701 - Salt mist

UL

UL 1703 listed

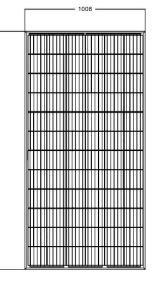


MSE385SR9S: 385WP, 72 CELL SOLAR MODULE CURRENT - VOLTAGE CURVE

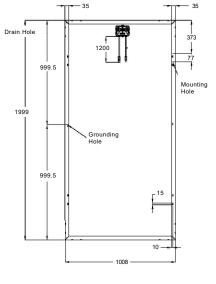


Voltage [V] Current-voltage characteristics with dependence on irradiance and module temperature

BASIC DESIGN (UNITS: mm)



1999



Front View

Back View



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	1,500Vdc or 1000Vdc
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	72 cells (6x12), 5 busbar		
Module Dimension	1999mm x 1008mm x 40mm (78.7 in. x 39.68 in. x 1.58 in.)		
Weight	23 kg (50.7 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, 1.2m (47.24 in.), 4mm ² / 12 AWG		
Connector	MC4 Compatible		

SHIPPING INFORMATION

Container FT		Pallets	Panels	385 W	
53'	Double stack	30	780	300.30 kW	
40'	Double stack	24	624	240.24 kW	
	Panels	Weight	Height	Width	Length
Pallet	26	1,414lbs	42.45"	45.50"	79.50"

Mission Solar Energy reserves the right to make specification changes without notice DOCUMENT #: C-SA2-MKTG-0019 REVISION #: R2 REVISION DATE: 4/28/2020

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