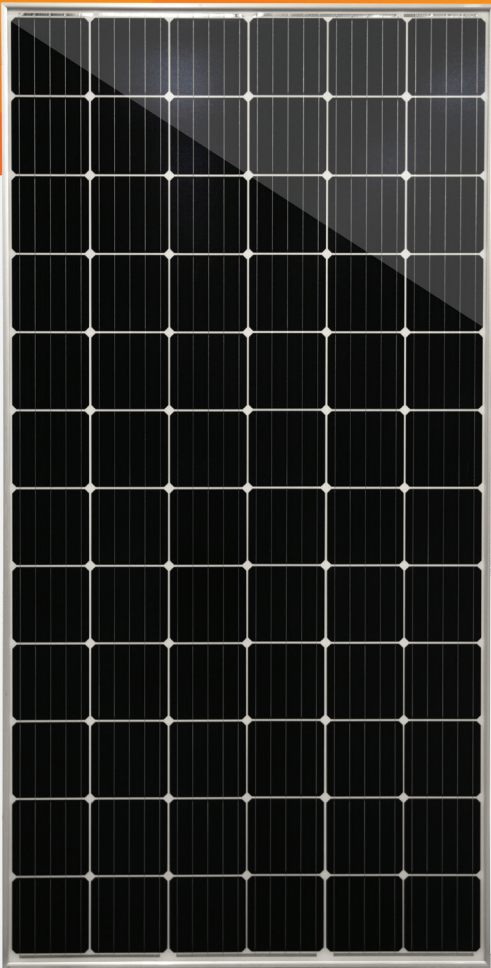


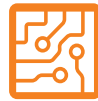
# AMERICA'S MODULE COMPANY

## MSE PERC 72



### CERTIFIED RELIABILITY

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



### ADVANCED TECHNOLOGY

- › PERC and 5 busbar drive >18% module efficiency
- › Ideal for all applications



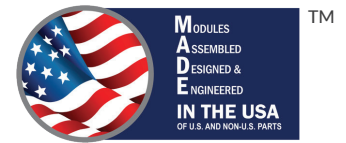
### EXTREME WEATHER RESILIENCE

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

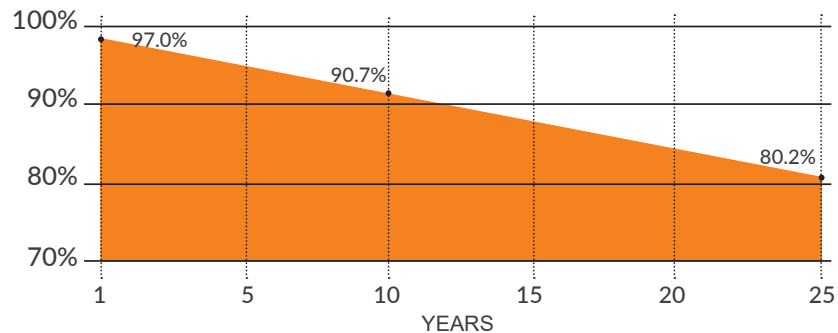


### BAA COMPLIANT FOR GOVERNMENT PROJECTS

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



### FRAME-TO-FRAME WARRANTY



# 365-375W

CLASS LEADING POWER OUTPUT

# 18.89%

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.

## CERTIFICATIONS

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



CEC



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

<sup>1</sup> Standard 12-year product warranty extendable to 25 years with registration



## ELECTRICAL SPECIFICATIONS

Electrical Parameters at Standard Test Conditions (STC)

Module Type			MSE365SQ9S	MSE370SQ9S	MSE375SQ9S
Power Output	P <sub>max</sub>	W <sub>p</sub>	365	370	375
Module Efficiency		%	18.39	18.64	18.89
Tolerance			0~+3%	0~+3%	0~+3%
Short-Circuit Current	I <sub>sc</sub>	A	9.705	9.767	9.826
Open-Circuit Voltage	V <sub>oc</sub>	V	48.05	48.08	48.16
Rated Current	I <sub>mp</sub>	A	9.236	9.323	9.432
Rated Voltage	V <sub>mp</sub>	V	39.52	39.69	39.76
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 P<sub>max</sub> -0.375%/°C

Temperature Coefficient of V<sub>oc</sub> -0.280%/°C

Temperature Coefficient of I<sub>sc</sub> 0.045%/°C

## OPERATING CONDITIONS

Maximum System Voltage 1,500Vdc

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 (156.75mm)

Cell Orientation 72 cells (6x12), 5 busbar

Module Dimension 1987mm x 999mm x 40mm  
(78.23 in. x 39.33 in. x 1.58 in.)

Weight 21.6 kg (47.6 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

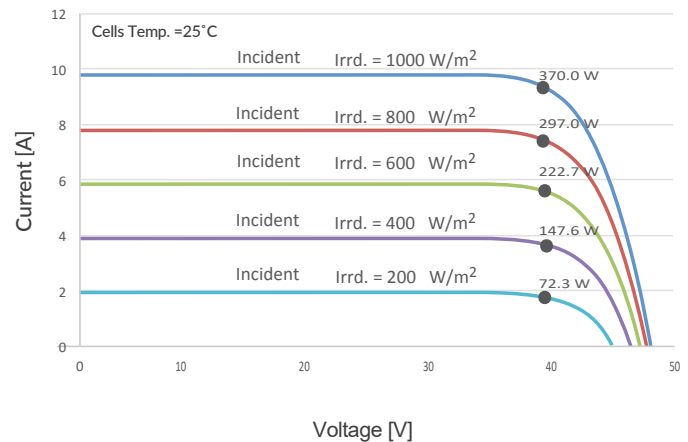
Cables PV wire, 1.2m (47.24 in.), 4mm<sup>2</sup> / 12 AWG

Connector MC4 Compatible

## SHIPPING INFORMATION

Container FT		Pallets	Panels	375 W		
53'	Double stack	30	780	292.50 kW		
40'	Double stack	24	624	234.00 kW		
Pallet		Panels	Weight	Height	Width	Length
		26	1,325lbs	45.50"	45.50"	79.50"

## MSE370SQ9S: 370WP, 72 CELL SOLAR MODULE CURRENT - VOLTAGE CURVE



Current-voltage characteristics with dependence on irradiance and module temperature

## BASIC DESIGN (UNITS: mm)

