

Mission Solar MSE PERC 66 Black 385W



Brand: Mission Solar Product-66

Product Code: MSE PERC 66 MSE395SX9R

Availability: In Stock

Weight: 22.00kg

Dimensions: 1,907.00mm x 1,054.00mm x 40.00mm

Price: \$298.62

Ex Tax: \$298.62

Short Description

In-depth review of the high efficiency Mission Solar 395W solar panel. Get the details on specs, warranties, pricing and value before installing these USA-made panels.

Description

Mission Solar MSE 66 panels take full advantage of the company's technologies that have won Mission Solar multiple awards. This PERC option offers higher power output per square foot of PV modules. This means quicker installation times and fewer clamps and racks. All of which reduces your overall costs, shortening the payback time.



- **Power Rating: 395W**
 - Cell Type Monocrystalline
 - Panel Dimensions 1907.0 mm L 1054.0 mm W 40.0 mm D

Solar Panel Aesthetics Black Cell, Black Frame, White Backsheet
Snow Load 5400 Pa, Wind Load 3600 Pa

- **Linear Warranty Term: 25 years**
- **Product Warranty Term: 25 years**
- **Made in San Antonio Texas, USA**
- **Approximate cost per watt \$2.88**

Solar Panel Performance

Power Rating 395W

The Mission Solar Energy MSE PERC 66 MSE395SX9R is rated for 395 watts.

Efficiency 18.9%

Mission Solar module efficiency rating of MSE PERC 66 MSE395SX9R 18.9% places on the higher end of average solar panel efficiency. Their achievement is largely due to the 6 bus bars on their mono-PERC cells, which allow more electrons to flow through each solar cell.

Power Tolerance 0/+3%

Power tolerance refers to the amount of electricity it will produce either above or below its rated power capacity at Standard Test Conditions (STC). The smaller the power tolerance deviation or range, the more accurate the rated power capacity is.

Mission Solar modules have a power tolerance of -0/+3%.

This means Mission Solar panels will, at the very minimum, operate at their rated capacity. However, these panels have exceeded, by as much as 3%, of its rated capacity. For example, a Mission Solar panel rated at 385 W will be able to operate anywhere from 385 W to 396 W (or 3% higher than 385) under STC.

With a -0% tolerance rating, the MSE PERC 66 Black 385W panel operates at, or above 385 W. These performance scores, coupled with Mission's high manufacturing standards, equate to real world performance under Texas' most extreme operating conditions.

Temperature Coefficient P_{Max}: -0.36 Voc: -0.261

Solar panels perform best at 77°F (25°C). Obviously, Texas temperatures will far exceed 77°F for long portions of the year. A solar panel's temperature coefficient is a measurement indicating how well a specific model of solar panel will perform outside of ideal operating conditions.

Knowing a panel's temperature coefficient and the temperature of the panel will allow you to predict your panel's performance during the dog days of summer.

Temperature coefficients are calculated in Celsius.

With each degree above 25°C (77°F) a given solar panel's electric output will be diminished by its temperature coefficient.

Using the above methodology, the MSE PERC 66 panels has a temperature coefficient of

-0.36%/°C. Hence, when this panel's temperature increases by one degree, from 25°C to 26°C (77° F to 79° F), expect a 0.36% reduction in potential electric output.

When it's July in Texas and temperatures have climbed to 95°F (35°C) expect electric output to decrease by 3.6%. When the hottest hours of summer days drive the mercury into the triple digits – say, 113°F, the Mission Solar MSE PERC 66 will decrease by approximately 7.2%.

Mission Solar MSE PERC 66 Black 385W

Product Name and Model Number	MSE PERC 66 Black 385w
Manufacturer Name and Rating	Mission Solar
Rated Power Output	385 watt
Efficiency Percentage	19.3%
Power Tolerance	+3.0%
Temperature Coefficient	-0.37%
Resiliency Specs	Snow load 5400Pa, Wind load 3600Pa
Output Warranty Term Length	25 year
Output Warranty Decline Rate	-0.45%
Materials Warranty Term Length	12 years, 25 years if registered online.
Cell Color(s)	Black
Frame	Black Anodized Aluminum Alloy
Backsheet Color(s)	Black
Cell Type (e.g. monocrystalline)	Monocrystalline P-type
Panel Dimensions	1907 X 1044 X 40mm
Weight	48.5 lbs/ 22kg
Number of Cells	66 cells
Connector Type	MC4, Renhe 05-8
Manufacturer Location	USA San Antonio Texas
Certifications Received (UL, IEC, ISO)	IEC, UL, CEC, TUV
Average Cost per Watt	.78
Marketplace Average Pricing	.90 - 1.50
Great/Above Market Price Indicators	excellent value

Warranty Specifications

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Mission Solar panel offers a 25-year, linear production guaranteeing an **end of term production of 84.08%**

and a 12-year product warranty on every panel they manufacture.

This warranty ensures all solar panels are defect free and with normal use and proper installation will be covered for 12 years from the date of purchase. After installation, Mission encourages homeowners to visit their website and register their panels online. This online registration extends your product warranty from 12 to 25 years.

Specification

Solar Panel Configuration	
Cell Type	Monocrystalline
Panel Aesthetics	Black Cell, Black Frame, White Backsheet
Panel Dimensions	1907.0 mm L 1054.0 mm W 40.0 mm D
Power Rating	395W
Snow load	5400 Pa
Wind Load	5400 Pa
Solar Panel Warranty	
Linear Production	25 Years
Warranty Term	
Product Warranty Term	25 Years
PV Product Performance	
Efficiency	18.9%
Power Tolerance	0/+3%
Temperature Coefficient	PMax: -0.36 Voc: -0.261
Others	
Average Cost / Watt	2.88
Where it's Made	Made in San Antonio Texas, USA