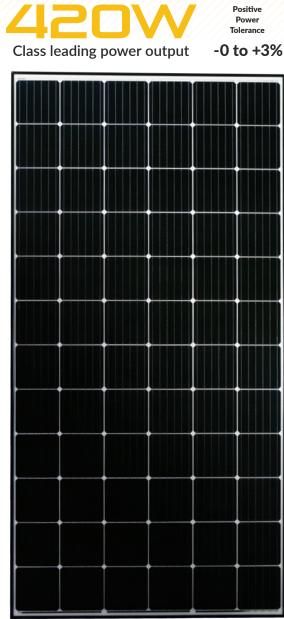
MSE PERC 72





FRAME-TO-FRAME WARRANTY

Degradation guaranteed not to exceed 2% in year one and 0.58% annually from years two to 30 with 84.08% capacity guaranteed in year 25. For more information, visit www.missionsolar.com/warranty

CERTIFICATIONS

If you have questions

Mission Solar Energy.

or concerns about certification of our products in your area, please contact



UL 61730 / IEC 61215 / IEC 61730 / IEC 61701

True American Quality True American Brand

Mission Solar Energy is headquartered in San Antonio, Texas where we manufacture our modules. We produce American, high-quality solar modules ensuring the highest-in-class power output and best-in-class reliability. 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 UL 61730 & IEC Standards
- PID resistant
- Resistance to salt mist corrosion

Advanced Technology

- 6 Busbar
- Passivated Emitter Rear Contact
- Ideal for all applications



Extreme Weather Resilience

- Up to 5,400 Pa front load & 3,600 Pa back load
- Tested load to UL 61730
- 40 mm frame

BAA Compliant for Government Projects



American Recovery & Reinvestment Act

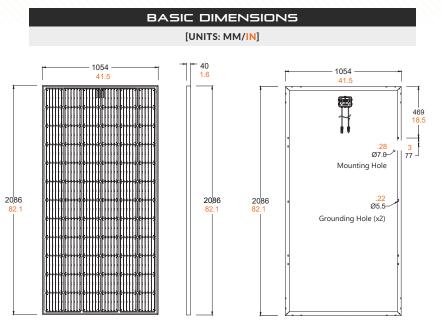




Class Leading 415-425W

FRONT VIEW

MSE PERC 72

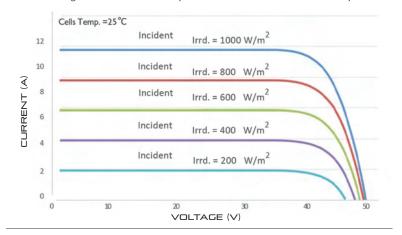


REAR VIEW

CURRENT-VOLTAGE CURVE MSE4155X6W: 415WP, 72 CELL SOLAR MODULE

SIDE VIEW

Current-voltage characteristics with dependence on irradiance and module temperature



CERTIFICATIONS AND TESTS					
	IEC	612	15, 61730, 61701		
	UL	617	30		
	CE	C			

Mission Solar Energy

8303 S. New Braunfels Ave., San Antonio, Texas 78235 www.missionsolar.com | info@missionsolar.com

Mission Solar Energy reserves the right to make specification changes without notice. C-SA2-MKTG-0026 REV 4 05/05/2021

ELECTRICAL SPECIFICATION					
PRODUCT TYPE	MSExxxSX6W (xxx = P _{max})				
Power Output	P _{max}	W_{p}	415	420	425
Module Efficiency		%	18.9	19.1	19.3
Tolerance		%	0/+3	0/+3	0/+3
Short Circuit Current	I_{sc}	А	10.99	11.05	11.09
Open Circuit Voltage	Voc	V	48.92	49.14	49.28
Rated Current	Imp	А	10.39	10.46	10.55
Rated Voltage	Vmp	V	39.93	40.14	40.27
Fuse Rating		А	20	20	20
System Voltage		V	1,500	1,500	1,500

TEMPERATURE COEFF	ICIENTS
Normal Operating Cell Temperature (NOCT)	44.69°C (±3.7%)
Temperature Coefficient of Pmax	-0.359%/°C
Temperature Coefficient of Voc	-0.261%/°C
Temperature Coefficient of Isc	0.044%/°C

OPERATING CONDITIONS

1,500Vdc
-40°C (-40°F) to +85°C (185°F)
20A
Type 1
Up to 5400 Pa front and 3600 Pa back load, Tested to UL 61730
25mm at 23 m/s

MECHANICAL DATA

Solar Cells	P-type mono-crystalline silicon
Cell Orientation	72 cells (6x12)
Module Dimension	2,086mm x 1,054mm x 40mm
Weight	23.4 kg (51.6 lbs.)
Front Glass	3.2mm, tempered, low-iron, anti-reflective
Frame	Anodized
Encapsulant	Ethylene vinyl acetate (EVA)
Junction Box	Protection class IP67 with 3 bypass-diodes
Cable	1.2m, Wire 4mm2 (12AWG)
Connector	Staubli PV-KBT4/6II-UR and PV-KST4/6II-UR, MC4, Renhe 05-8

SHIPPING INFORMATION						
Container Feet	Ship To	Pallet	Panels	415 W Bin		
53'	Most States	28	728	305.76 kW		
Double Stack	CA	25	650	273 kW		
PALLET [26 PANELS]						
Weight 1,450 lbs. (657 kg)	Height 47.5 in (120.65 cm) (1:	Width 46 in 16.84 cm)	Length 83.75 in (212.72 cm)		