

MSE 144HC

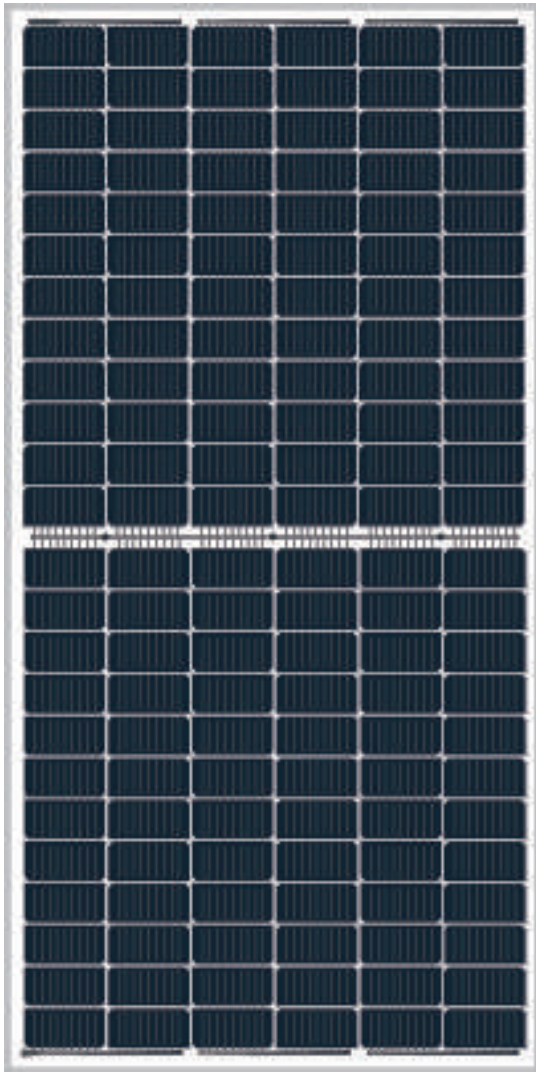


575W

Class leading power output

Positive Power Tolerance

-0 to 3%



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

- Half-cut cell with 16 Busbar
- Tunnel oxide passivated contact
- Ideal for all applications



Extreme Weather Resilience

- Up to 5,400 Pa front load & 2,400 Pa back load
- Tested load to UL 61730
- Dia. 25mm Hailstone tests at the speed of 24m/s



BAA Compliant for Government Projects

- Buy American Act
- American Recovery & Reinvestment Act

FRAME-TO-FRAME WARRANTY

Degradation guaranteed not to exceed 2% in year one and 0.45% annually from years two to 30 with 84.95%.

For more information, visit www.missionsolar.com/warranty

CERTIFICATIONS

CEC



UL 61730 / IEC 61215 / IEC 61730 / IEC 61701

If you have questions or concerns about certification of our products in your area, please contact Mission Solar Energy.

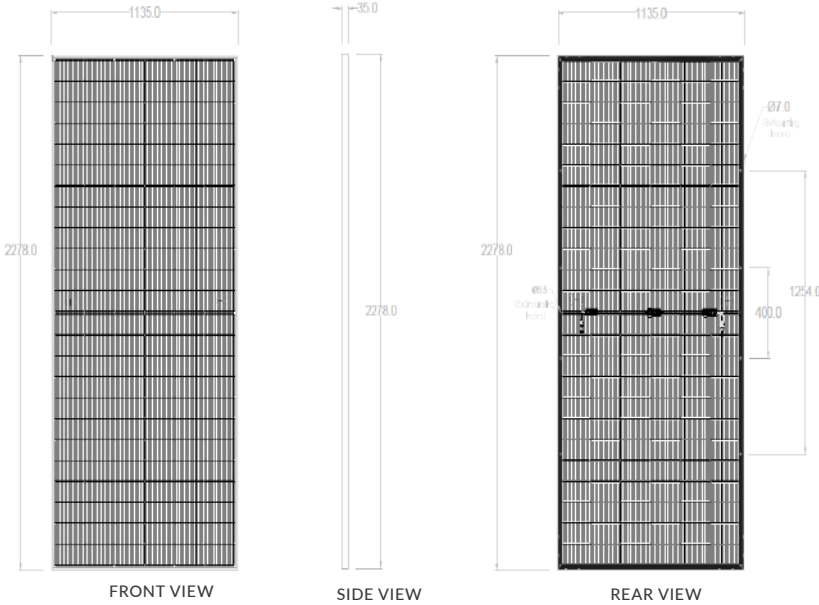


Class Leading 575W

MSE N-TOPCon 144HC

BASIC DIMENSIONS

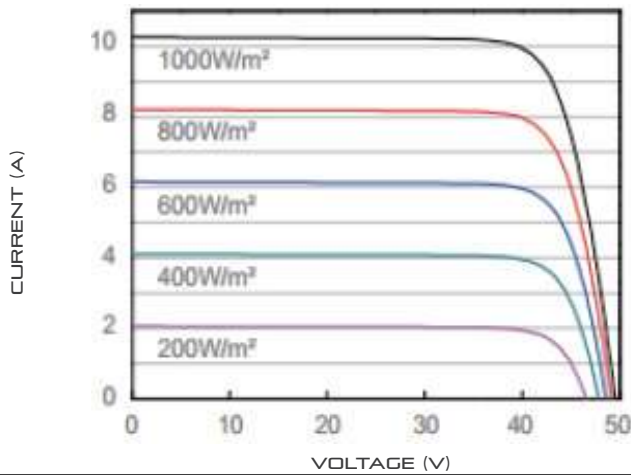
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CURRENT-VOLTAGE CURVE

MSE575HN4T, 144 HALF-CUT CELL SOLAR MODULE

Current-voltage characteristics with dependence on irradiance and module temperature



CERTIFICATIONS AND TESTS

IEC	61215, 61730, 61701
UL	61730



CEC



Mission Solar Energy

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

ELECTRICAL SPECIFICATION

PRODUCT TYPE	MSExxxHN4T(xxx = P _{max})				
Power Output	P _{max}	W _p	570	575	580
Module Efficiency	%		22.0	22.2	22.4
Tolerance	W		0/+3%	0/+3%	0/+3%
Short Circuit Current	I _{sc}	A	14.41	14.45	14.48
Open Circuit Voltage	V _{oc}	V	50.37	50.68	50.98
Rated Current	I _{mp}	A	12.94	12.99	13.06
Rated Voltage	V _{mp}	V	44.04	44.27	44.42
Fuse Rating	A		30A	30A	30A

TEMPERATURE COEFFICIENTS

Normal Operating Cell Temperature (NOCT)	45°C (±2%)
Temperature Coefficient of P _{max}	-.035%/°C
Temperature Coefficient of V _{oc}	-.270%/°C
Temperature Coefficient of I _{sc}	.048%/°C

OPERATING CONDITIONS

Maximum System Voltage	1,500Vdc
Operating Temperature Range	-40°F to 185°F (-40°C to +85°C)
Maximum Series Fuse Rating	30A
Fire Safety Classification	UL Type 1
Front & Back Load (UL Standard)	Up to 5,400 Pa snow and 2,400 Pa wind load, Tested to UL 61730
Hail Safety Impact Velocity	25mm at 23 m/s

*Mission Solar Energy uses quality sourced materials that result in a Type 1 fire rating. Please note, the 'Fire Class' Rating is designated for the fully-installed PV system, which includes, but is not limited to, the module, the type of mounting used, pitch and roof composition.

MECHANICAL DATA

Solar Cells	N-type, 182mm x 91mm
Cell Orientation	144 half-cut cells
Module Dimension	2278(±2mm) x 1135(±2mm) x 35(±1mm)
Weight	51.8 lbs. (23.5kg)
Front Glass Back Sheet	Semi-tempered double glass, 2.0mm/2.0mm Transparent with a grid
Frame	35mm Anodized
Junction Box	Protection class IP68 with 3 bypass-diodes
Cable	1.2m, wire 4mmx2 (12AMG)
Connector	MC4 EVO2

SHIPPING INFORMATION

Container Feet	Ship To	Pallet	Panels	575W Bin
40'	Most States	22	682	392.15 kW

PALLET [31 PANELS]

Weight	Height	Width	Length
1,926 lbs (705 kg)	50.71 in (117.0 cm)	46 in (111.0 cm)	91.3 in (211.5 cm)