

MSI PERC Bifacial 144HC

Transparent Backsheet



545-555W

Class leading power output

Positive Power Tolerance
-0 to +5W



Solar Built for the Long Haul

Mission Solar Energy is headquartered in San Antonio, Texas. This product is tailored for commercial and utility applications. Every Mission Solar Energy solar module is certified and surpasses industry standard regulations, providing excellent performance over the long term. Mission Solar Energy is a proud member of the OCI Family of Companies.

America's Module Company®



Fair Trade Practices

- Free of forced labor at all stages of the supply chain
- Not subject to AD/CVD tariffs or investigations



Certified Reliability

- Tested to UL 61730 & IEC Standards
- PID resistant
- Resistance to salt mist corrosion



Advanced Technology

- Half-cut cell with 10 busbar
- Passivated Emitter Rear Contact
- Engineered for residential and commercial applications



Extreme Weather Resilience

- Up to 5,400 Pa front load & 2,400 Pa back load
- Tested load to UL 61730 & IEC Standards
- Hail tests results exceed 25mm at 23 m/s

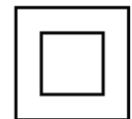
FRAME-TO-FRAME WARRANTY

Degradation guaranteed not to exceed 2% in year 1 and 0.55% annually from years 2 to 25, with 84.8% guaranteed in year 25; 12-year Material and Workmanship coverage.

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

CERTIFICATIONS

CEC

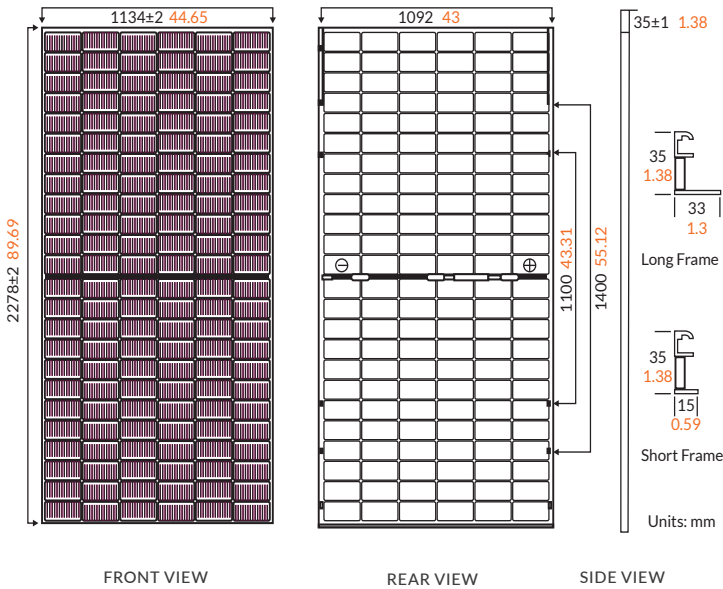


UL 61730 / IEC 61215 / IEC 61730

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

BASIC DIMENSIONS

[UNITS: MM/IN]



ELECTRICAL SPECIFICATION

PRODUCT TYPE	MSI10-xxxHT4T (xxx = P _{max})			
Power Output	P _{max} W _p	545	550	555
Module Efficiency	%	21.30	21.50	21.69
Tolerance	W	0/+5	0/+5	0/+5
Short Circuit Current	I _{sc} A	13.92	13.99	14.02
Open Circuit Voltage	V _{oc} V	49.65	49.80	49.95
Rated Current	I _{mp} A	13.04	13.11	13.19
Rated Voltage	V _{mp} V	41.80	41.95	42.09
Fuse Rating	A	30	30	30
System Voltage	V	1,500	1,500	1,500

BIFACIAL OUTPUT | REAR SIDE POWER GAIN

5%-Maximum Power (P _{max})	572	578	583
5%-Module Efficiency STC(%)	22.37	22.57	22.78
15%-Maximum Power (P _{max})	627	633	638
15%-Module Efficiency STC(%)	24.30	24.53	24.75
25%-Maximum Power (P _{max})	681	688	694
25%-Module Efficiency STC(%)	26.36	26.63	26.86

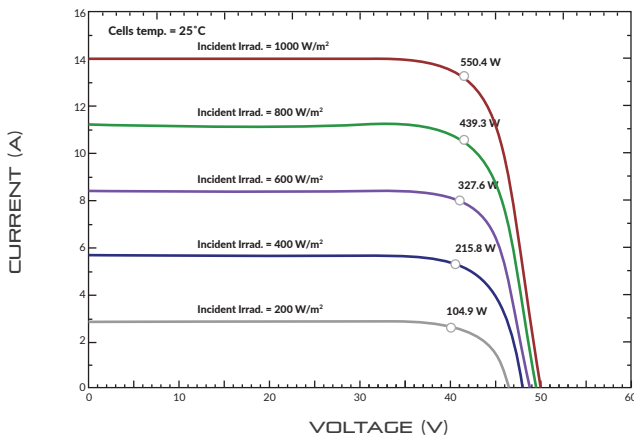
TEMPERATURE COEFFICIENTS

Normal Operating Cell Temperature (NOCT)	45°C (±2%)
Temperature Coefficient of P _{max}	-0.336%/°C
Temperature Coefficient of V _{oc}	-0.285%/°C
Temperature Coefficient of I _{sc}	0.040%/°C

CURRENT-VOLTAGE CURVE

MSI10-550HT4T, 144 HALF-CUT CELL SOLAR MODULE

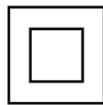
Current-voltage characteristics with dependence on irradiance and module temperature



CERTIFICATIONS AND TESTS

MSI10-550HT4T IEC	61215, 61730, 61701
UL	61730

CEC



Mission Solar Energy

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MECHANICAL DATA

Solar Cells	PERC, 182mm x 91mm, 144 (6x24)
Cell Orientation	144 half-cut cells
Module Dimension	2278(±2mm) x 1134(±2mm) x 35(±1mm)
Weight	62.17 lbs. (28.2kg)
Front / Back Glass	Front 3.2 mm, transparent backsheet
Frame	Anodized aluminum profile
Junction Box	Protection class IP68 with 3 bypass-diodes
Cable	1.2m, wire 4mm ² (12AMG)
Connector	Stäubli EVO2 MC4

SHIPPING INFORMATION

Pallet	Modules	550W Bin	Total Weight
20	620	341 kW	39,868.4 lbs. / 18,084 kg
15	465	255.75 kW	29,901.3 lbs. / 13,563 kg

PALLET [31 MODULES]

Weight	Height	Width	Length
1993 lbs. (904 kg)	50 in (1270 mm)	44.5 in (1130 mm)	91.1 in (2313 mm)