

MSI 144HC

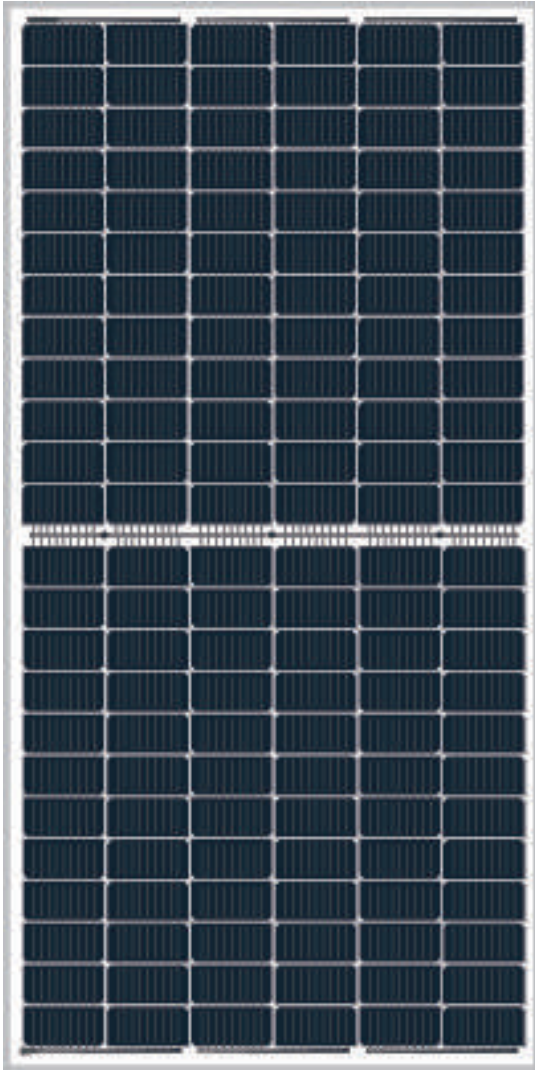
MISSION SOLAR ENERGY



550W

Positive
Power
Tolerance

Class leading power output **-0 to +3%**



PERC Cells Transparent Backsheet

Mission Solar Energy is headquartered in San Antonio, Texas. 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 10 Busbar
- Passivated Emitter Rear Contact
- Ideal for utility 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

FRAME-TO-FRAME WARRANTY

Degradation guaranteed not to exceed 2% in year one and 0.55% annually from years two to 25 with 84.8%.

CERTIFICATIONS

CEC

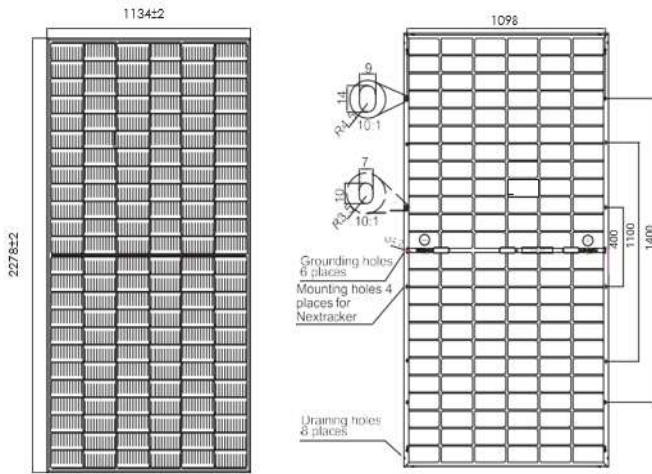


UL 61730 / IEC 61215 / IEC 61730

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

BASIC DIMENSIONS

[UNITS: MM/IN]



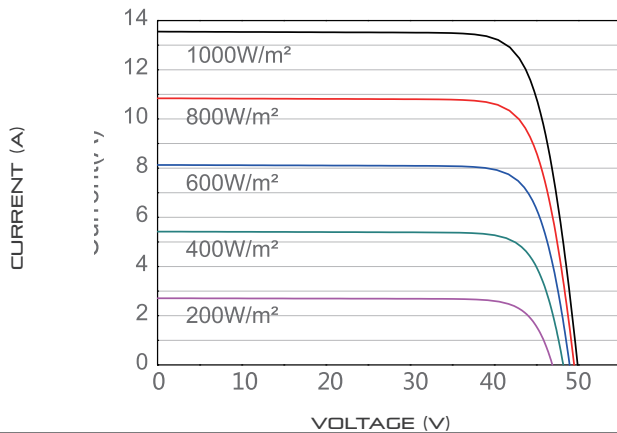
FRONT VIEW

REAR VIEW

CURRENT-VOLTAGE CURVE

MSI10-545HT4T, 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



ELECTRICAL SPECIFICATION

PRODUCT TYPE	MSI10-xxxHT4T (xxx = P _{max})				
Power Output	P _{max}	W _p	545	550	555
Module Efficiency	%		21.01	21.21	21.39
Tolerance	%		0/+3%	0/+3%	0/+3%
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	13.18
Rated Voltage	V _{mp}	V	41.80	41.95	42.09
Fuse Rating	A		30A	30A	30A
System Voltage	V		1,500	1,500	1,500

TEMPERATURE COEFFICIENTS

Normal Operating Cell Temperature (NOCT)	45°C (±2%)
Temperature Coefficient of P _{max}	-0.350%/°C
Temperature Coefficient of V _{oc}	-0.270%/°C
Temperature Coefficient of I _{sc}	0.048%/°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 24 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	PERC, 182mm x 91mm, 144 (6x24)
Cell Orientation	144 half-cut cells
Module Dimension	2278(±2mm) x 1135(±2mm) x 35(±1mm)
Weight	60.0 lbs. (27.2kg)
Glass	Single glass, 3.2mm AR coated tempered glass
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	550W Bin
40'	Most States	22	682	375.10 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)

Mission Solar Energy

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