MISSION SOLAR

545-555W Class leading power output



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



• 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
- Superior corrosion protection in coastal areas
- Excellent resistance to ammonia

CERTIFICATIONS



CEC

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



Class Leading 545-555W

PERC Bifacial 144HC, Dual Glass

BASIC DIMENSIONS

FRONT VIEW

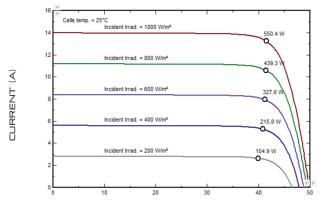
SIDE VIEW

REAR VIEW

CURRENT-VOLTAGE CURVE

MSN10-550HT4G, 144 HALF-CUT CELL SOLAR MODULE

Current-voltage characteristics with dependence on irradiance and module temperature



VOLTAGE (V)



Mission Solar Energy

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ELECTRICAL SPECIFICATION					
PRODUCT TYPE	MSN	10 <mark>xxx</mark>	HT4G (xxx	= P _{max})	
Power Output	Pmax	Wp	545	550	555
Module Efficiency		%	21.10	21.29	21.48
Tolerance		W	0/+5	0/+5	0/+5
Short Circuit Current	lsc	А	13.83	13.89	13.95
Open Circuit Voltage	Voc	V	50.00	50.20	50.40
Rated Current	Imp	А	13.07	13.13	13.19
Rated Voltage	Vmp	V	41.70	41.90	42.10
Fuse Rating		А	30A	30A	30A
System Voltage		V	1,500	1,500	1,500

545	550	555
681	688	694
41.8	42.0	42.2
16.30	16.37	16.44
50.1	50.3	50.5
17.25	17.32	17.39
	545 681 41.8 16.30 50.1	681 688 41.8 42.0 16.30 16.37 50.1 50.3

TEMPERATURE COEFF	ICIENTS
Normal Operating Cell Temperature (NOCT)	44°C (±2%)
Temperature Coefficient of Pmax	-0.32%/°C
Temperature Coefficient of Voc	-0.29%/°C
Temperature Coefficient of Isc	0.045%/°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	2" at 51 mph (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	PERC, 182mm x 91mm, 144 (6x24)		
Cell Orientation	144 half-cut cells		
Module Dimension	2278(±2mm) x 1134(±2mm) x 30(±1mm)		
Weight	69.45 lbs. (31.5kg)		
Front / Back Glass	Single glass, 3.2mm AR coated tempered glass		
Frame	30mm Anodized		
Junction Box	Protection class IP68 with 3 bypass-diodes		
Cable	1.2m, wire 4mmx ² (12AMG)		
Connector	Staübli EVO2 MC4		

SHIPPING INFORMATION				
Container	Pallet	Modules	550W BIN	Total Weight
40'	20	720	396 kW	51,588 lbs. / 23,400 kg

PALLET [36 PANELS]						
Weight	Height	Width	Length			
2759.4 lbs.	50 in	47.2 in	90.6 in			
(1170 kg)	(1271 mm)	(1120 mm)	(2300 mm)			