MSX N-Type 108HC

Mono-facial High Efficiency N-type





Positive Power Tolerance 0 to +3%

Class leading power output



FRAME-TO-FRAME WARRANTY

Degradation guaranteed not to exceed 1% in year 1 and 0.45% annually from years 2 to 25 with 88.0% capacity guaranteed in year 25. For more information, visit www.missionsolar.com/warranty

CERTIFICATIONS





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

American Solar Built for the Long Haul

Mission Solar Energy, headquartered in San Antonio, Texas, offers high-quality, American-made solar modules designed specifically for residential and commercial rooftops. Engineered for maximum efficiency and durability in real-world conditions, our modules combine sleek aesthetics with best-in-class performance to power homes and businesses for decades to come.

America's Module Company®



High Power Output

- Achieves 22.3% efficiency with advanced high-density interconnect technology
- Multi-busbar design improves current flow and reduces resistance for better energy



Built for Tough Conditions

- Enhanced cell processing and material control for longterm durability
- Resists corrosion and degradation in harsh environments
 —salt spray, ammonia, sand, humidity, and high heat
- Certified for 5400 Pa front load and 5400 Pa back load for mechanical strength



More Energy, More of the Time

- Proven performance in low light and at challenging angles, verified by third-party testing
- Specialized glass design maintains output even in cloudy or shifting weather
- Low temperature coefficient (-0.29%)



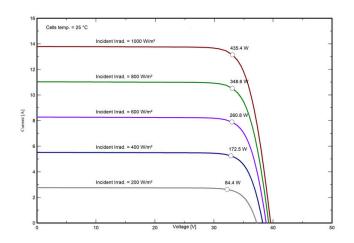


MSX N-Type 108HC

[UNITS: MM/IN] A4.73 11.14 Pront Sides Back sides 1.1 Front Corner 2.1 Drainage (x8) 3.1 GND (x2) 4.1 Mounting (x4) 5.5 Frame profile

CURRENT-VOLTAGE CURVE

MSX10-xxxHN0B: 435W, 108 CELL SOLAR MODULE



CERTIFICATIONS AND TESTS			
IEC	61215, 61730, 61701		
UL	61730		





Mission Solar Energy

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ELECTRICAL SPECIFICATION					
PRODUCT TYPE	MSX1	l0-xxx	HN0B (xxx	= Pmax)	
Power Output	Pmax	Wp	435	440	445
Module Efficiency		%	22.3	22.5	22.8
Tolerance		%	0/+3	0/+3	0/+3
Short Circuit Current	lsc	Α	13.79	13.9	14.02
Open Circuit Voltage	Voc	V	39.56	39.62	39.69
Rated Current	lmp	Α	13.07	13.19	13.31
Rated Voltage	Vmp	V	33.31	33.37	33.44
Fuse Rating		Α	30	30	30
System Voltage		V	1,500	1,500	1,500

TEMPERATURE COEFFICIENTS			
Normal Operating Cell Temperature (NOCT)	45°C		
Temperature Coefficient of Pmax	-0.29%/°C		
Temperature Coefficient of Voc	-0.25%/°C		
Temperature Coefficient of Isc	0.05%/°C		

OPERATING CONDITIONS			
Maximum System Voltage	1,500 Vdc		
Operating Temperature Range	-40°F to 185°F (-40°C to +85°C)		
Maximum Series Fuse Rating	30A		
Fire Safety Classification	Type 1		
Front & Back Load (UL Standard)	Up to 5,400 Pa front and 5,400 Pa back load. Tested to UL 61730		

^{*}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 i-TOPCon Monocrystalline		
Cell Orientation	108 cells		
Module Dimension	1722 mm x 1134 mm x 35 mm		
Weight	46.96 lbs. (21.3 kg)		
Front Glass	3.2 mm AR Coating Tempered Glass		
Frame	35 mm Anodized Aluminum, Black		
Encapsulant	Polyolefin Elastomer (POE)		
Junction Box	IP 68 Rated		
Cable	1.2 m, Wire 4 mm² (12AWG)		
Connector	MC4 EV02 / Staubli EVO-2A		

SHIPPING INFORMATION				
Truck Load	Ship To	Pallets	Modules	435W Bin
53'	Most States	28	840	365.4 kW
Double Stack: (Horizontal Orientation): 30 modules per pallet				

PALLET [30 MODULES]					
Weight	Height	Width	Length		
1,360 lbs.	44.25 in	47.25 in	70 in		
(617 kg)	(112.4 cm)	(120 cm)	(177.8 cm)		