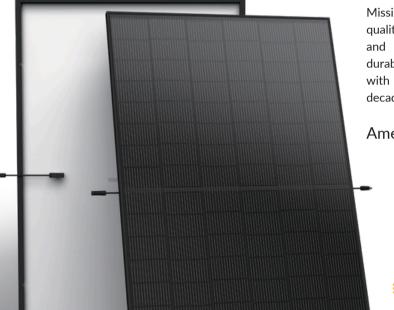




Positive Power Tolerance

Class leading power output

-0 to +5W



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®



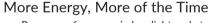
High Power Output

- Achieves up to 22.3% efficiency with advanced highdensity 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 5400Pa front load and 5400 Pa back load for mechanical strength



- Proven performance in low light and at challenging angles, verified by third-party testing
- Specialized glass design maintain output even in cloudy or shifting weather
- Low temperature coefficient (-0.29%) and up to 25% extra energy from rear-side production depending on surface reflectivity

FRAME-TO-FRAME WARRANTY

Degradation guaranteed not to exceed 1% in year 1 and 0.4% annually from years 2 to 25 with 89.4% 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.

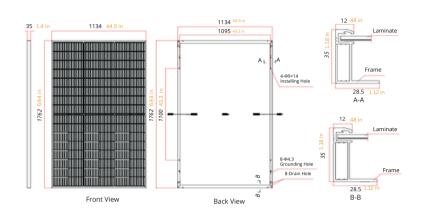




MST N-Type 96HC

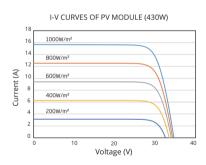
BASIC DIMENSIONS

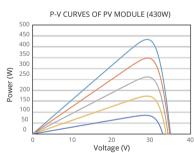
[UNITS: MM/IN]



CURRENT-VOLTAGE CURVE

MST435HN6B: 435W, 96 CELL SOLAR MODULE





CERTIFICATIONS AND TESTS

IEC	61215, 61730, 61701
UI	617.3.0





Mission Solar Energy

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

ELECTRICAL SPECIFICATION					
PRODUCT TYPE	MSTx	xxHN	6B (xxx = P	max)	
Power Output	Pmax	Wp	435	440	445
Module Efficiency		%	21.8	22.0	22.3
Tolerance			0/+5	0/+5	0/+5
Short Circuit Current	lsc	Α	15.96	16.01	16.07
Open Circuit Voltage	Voc	V	34.5	34.8	35.1
Rated Current	Imp	Α	14.99	15.02	15.08
Rated Voltage	Vmp	٧	29.1	29.3	29.5
Fuse Rating		Α	30A	30A	30A
System Voltage		٧	1,500	1,500	1,500

TEMPERATURE COEFFICIENTS			
Normal Operating Cell Temperature (NOCT)	43°C (±2°C)		
Temperature Coefficient of Pmax	-0.29%/°C		
Temperature Coefficient of Voc	-0.24%/°C		
Temperature Coefficient of Isc	0.04%/°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	Type 1* or Type 2		
Front & Back Load (UL Standard)	Up to 5,400 Pa front and 5,400 Pa back load. Tested to UL 61730		
Hai			

*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	96 cells	
Module Dimension	1762mm x 1134mm x 35mm	
Weight	47.4 lbs. (21.5kg)	
Front Glass	3.2mm AR Coating Tempered Glass	
Frame	35mm Anodized Aluminum Alloy, Black	
Encapsulant	Ethylene vinyl acetate (EVA)	
Junction Box	IP 68 Rated	
Cable	1.2m, Wire 4mm2 (12AWG)	
Connector	MC4 EV02 / TS4 Plus / TS4*	

SHIPPING INFORMATION				
Truck Load	Ship To	Pallets	Modules	435W Bin
53'	Most States	26	806	330.46 kW

Double Stack: (Horizontal Orientation): 31 modules per pallet

PALLET [31 MODULES]				
Weight	Height	Width	Length	
1,610 lbs.	51 in	47 in	70 in	
(730 kg)	(129.5 cm)	(119.4 cm)	(119.4 cm)	