

PERC Bifacial 132HC

P-type PERC Bifacial Dual Glass Monocrystalline Module

MISSION SOLAR
ENERGY

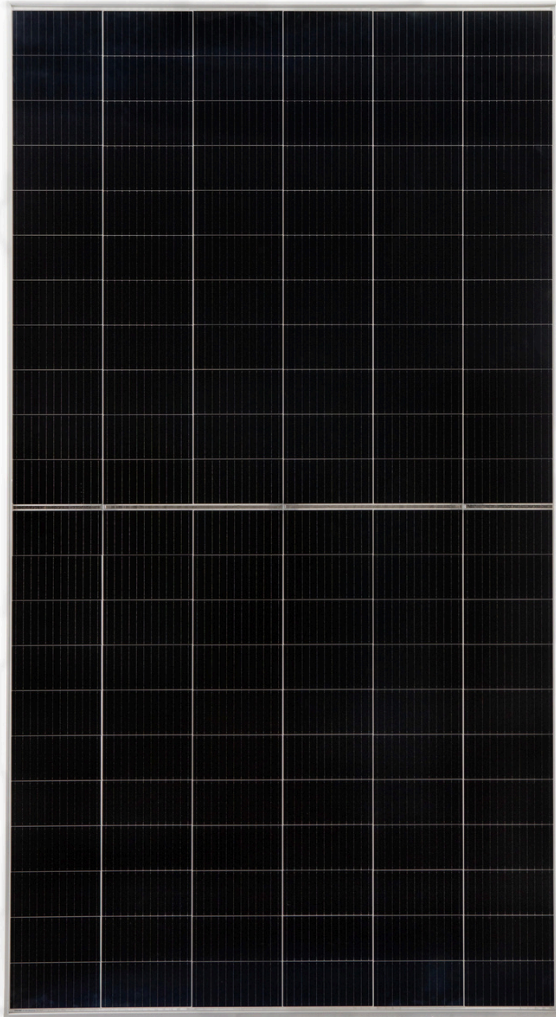


660-670W

Class leading power output

Positive
Power
Tolerance

-0 to +5W



American Solar Built for the Long Haul

Mission Solar Energy, headquartered in San Antonio, Texas, delivers American-made, high-quality solar modules engineered for exceptional power output and long-term reliability. Built to meet the demands of utility and commercial applications, every Mission Solar module is rigorously tested, fully certified, and exceeds industry standards for performance and durability.

America's Module Company®



Big Value for Your Bottom Line

- Lower LCOE and balance of system costs mean faster payback
- Compatible with most standard system components



Serious Power

- Delivers up to 21.6% efficiency with advanced interconnect technology
- Multi-busbar design improves light capture and current flow



Engineered for Durability

- Engineered to prevent performance loss through controlled cell and material processes
- Withstands challenging environments like high heat and humidity
- Rigorously tested for mechanical strength—5400 Pa front load, 2400 Pa back load



Made to Make More

- Proven performance in low light and at different angles, verified by third-party testing
- Glass design helps maintain output under cloudy or variable conditions
- Low temperature coefficient (-0.34%) and potential for up to 25% extra energy from rear-side production depending on surface reflectivity

FRAME-TO-FRAME WARRANTY

Degradation guaranteed not to exceed 2% in year 1 and 0.45% annually from years 2-30 with 84.95% capacity guaranteed in year 30. For more information, visit www.missionsolar.com/warranty

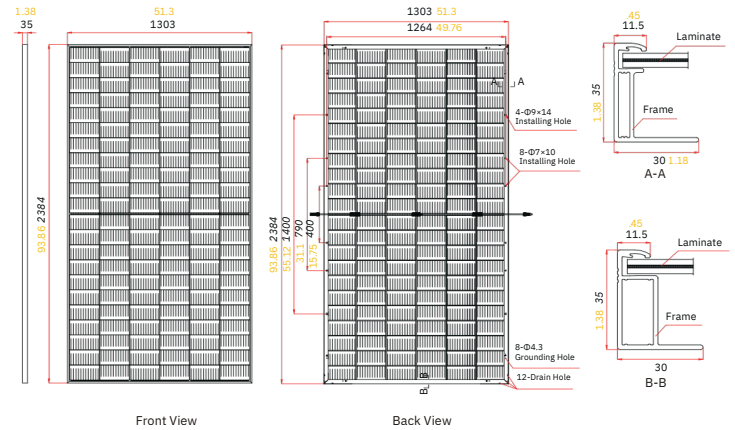
CERTIFICATIONS



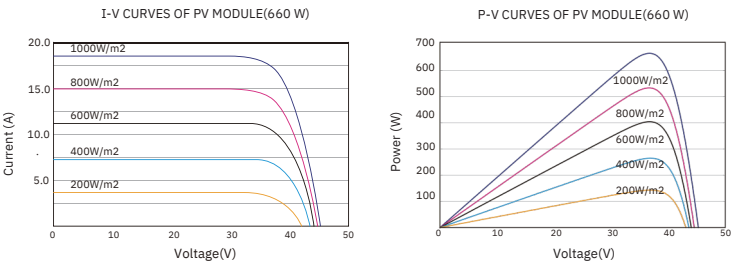
If you have questions or concerns about certification of our products in your area, please contact Mission Solar Energy.

BASIC DIMENSIONS					
PRODUCT TYPE	MST12xxxHP3G (xxx = Pmax)				
Peak Power Watts	Pmax	Wp	660	665	670
Module Efficiency		%	21.2	21.4	21.6
Tolerance			0/+5	0/+5	0/+5
Short Circuit Current	Isc	A	18.45	18.5	18.55
Open Circuit Voltage	Voc	V	45.9	46.1	46.3
Rated Current	Imp	A	17.35	17.39	17.43
Rated Voltage	Vmp	V	38.1	38.3	38.5
Fuse Rating		A	35	35	35
System Voltage		V	1,500	1,500	1,500

BASIC DIMENSIONS	
[UNITS: MM/IN]	



CURRENT-VOLTAGE CURVE	
MST12660HP3G: 660W, 132 CELL SOLAR MODULE	



CERTIFICATIONS AND TESTS	
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Mission Solar Energy

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Mission Solar Energy reserves the right to make specification changes without notice.

C-MKTG-0048 VERSION: 2 VERSION DATE: 08/27/2025

ELECTRICAL SPECIFICATION (BACKSIDE)					
Basic Power Gain			5%	5%	5%
Power Output	Pmax	Wp	693	698	704
Short Circuit Current	Isc	A	19.37	19.43	19.48
Open Circuit Voltage	Voc	V	45.9	46.1	46.3
Rated Current	Imp	A	18.22	18.26	18.3
Rated Voltage	Vmp	V	38.1	38.3	38.5

TEMPERATURE COEFFICIENTS	
Normal Operating Cell Temperature (NOCT)	43°C (±2°C)
Temperature Coefficient of Pmax	-0.34%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.04%/°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 Fire	35A
Safety Classification	Type 29 or Class C
Front & Back Load (UL Standard)	Up to 5,400 Pa front and 2,400 Pa back load.

MECHANICAL DATA	
Solar Cells	P-type PERC Monocrystalline (G12)
Cell Orientation	132 cells
Module Dimension	2384 mm x 1303 mm x 35 mm
Weight	85.3 lbs. (38.7 kg)
Front Glass	2.0 mm AR Coating Heat Strengthened Glass
Back Glass	2.0 mm Heat Strengthened Glass (White Coating)
Frame	35 mm Anodized Aluminum Alloy
Encapsulant	Polyolefin Elastomer (POE)
Junction Box	IP 68 Rated
Cable	Wire 4 mm ² (12AWG)
Connector	MC4 EV02 / TS4 Plus / TS4

SHIPPING INFORMATION				
Truck Load	Ship To	Pallets	Modules	670W Bin
53'	Most States	16	496	332.32 kW
Double Stack: (Horizontal Orientation): 31 modules per pallet				

PALLET [31 MODULES]			
Weight	Height	Width	Length
2,749 lbs. (1,247 kg)	98.74 in (250.8 cm)	44.29 in (112.5 cm)	52.17 in (132.5 cm)