

Maxima GxB 520 Bifacial Module A Trusted Quality Brand in Solar



High Performance

Bifacial technology generates power from both the front and back faces of the module, resulting in up to 20% higher energy harvest (kWh).Our HCT cells packaged in frameless double glass modules yield higher power and do not suffer from light-induced degradation (LID) or potential induced degradation (PID).



Robust Quality & Reliability

Double glass modules designed for durability. Certified to international certification body standards: IEC, UL, and CEC listed. Manufactured according to the International Quality Management System ISO9001.



Extreme Climate Performance

As temperatures rise, our patented Hybrid Cell Technology produces more power [kW] than conventional crystalline silicon solar panels at the same elevated temperature.



Guaranteed Performance

All modules have a 15 year product warranty and 30 year power output warranty.



Thin profile double-glass construction provides superior aesthetics that are a perfect complement to roofs, carports, and canopies.

About Sunpreme

Sunpreme is an innovative solar PV module manufacturer headquartered in Sunnyvale, California with manufacturing facilities in the United States and China. We provide high quality, reliable and aesthetically superior modules to residential, commercial, and utility customers globally. Sunpreme solar systems are delivering clean energy on 5 continents.

Sunpreme solar panels are designed and engineered in Silicon Valley, CA, USA.

Hybrid Cell Technology

Sunpreme modules use our patented Hybrid Cell Technology platform that utilize enabling thin-film materials on surface engineered Silicon substrate to achieve high-efficiency power output and reliable energy production for increased project returns.

Unlike conventional crystalline silicon cell technologies, Sunpreme uses highly scalable process to deliver high output solar power at very competitive Levelized Cost of Energy (LCOE).



Back View

High Efficiency

Front View

20.5% Module Efficiency (STC) 22.3% Module Efficiency with 10% Backside Power Boost 24.2% Module Efficiency with 20% Backside Power Boost

Bifacial Energy Boost

Harvests sun from the backside to increase power output up to 20%

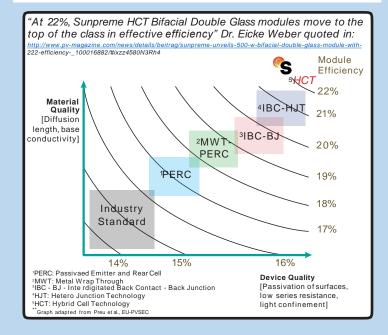
Double-Glass Frameless Design

Sunpreme Design is more robust, and does not require module grounding

15 YEAR PRODUCT WARRANTY

30 YEAR

POWER WARRANTY





Maxima GxB 520 Bifacial Solar Module

High Performance Thin-Film enabled SolarModule

ELECTRICAL SPECIFICATIONS¹

STC rated output P _{mpp} (W)	500	510	520	
Cell Efficiency	21.5%	21.8%	22.0%	
Module Efficiency	19.3%	19.7%	20.1%	
Standard sorted output	-3%/5%	-3%/5%	-3%/5%	
Open Circuit Voltage V _{oc} (V)	70.5	71.0	71.5	
Short circuit current I _{sc} (A)	9.30	9.40	9.50	
Rated Voltage V _{mpp} (V)	57.1	57.6	58.1	
Rated Current I _{mpp} (A)	8.9	8.9	9.0	
	C 1.400	22111 + 221		

1: Standard Test Conditions for front-face of panel: 1000 W/m², 25 $^\circ\text{C}$

BIFACIAL OUTPUT*

With 10% Backside PowerBoost				
Power Output (W)	550	561	572	
Module Efficiency	21.2%	21.7%	22.1%	
With 20% Backside PowerBoost				
Power Output (W)	600	612	624	
Module Efficiency	23.2%	23.6%	24.1%	
*Backside boost for flush mount configuration is \leq 5%, resulting in I _{sc} \leq 9.56-9.77A				
TEST OPERATING CONDITIONS				
Operating Temperature		-40 to 8	85°C	
Storage Temperature		-40 to 85°C		
Maximum Series Fuse		20 A		
Maximum System Voltage	1,500 VDC (UL & IEC			
Power/Sq. Ft. w/ 20% backside power boost		22.4 W/Sq. Foot		
Maximum load capacity	125 m	3,600 PA (ph/200 km/h	(snow load) wind rating	
Fire Class	Class A – Type 3			
TEMPERATURE COEFFICIENTS				
Temperature coefficients P _{mpp}		-	0.3%/C	
Temperature coefficients I _{sc}				
Temperature coefficients V_{oc}		-0.24%/C		
ormal operating cell temperature (NOCT)° 45°C +/- 2° (C +/- 2° C		

WARRANTY

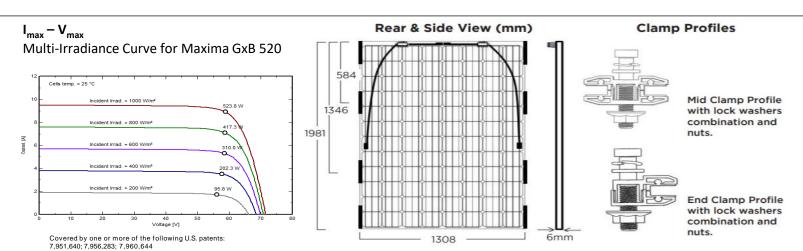
15-year extended product warranty
97.5% power warranty first 5 years
-0.5% per year degradation for the following 25 years

CERTIFICATION

Certified to IEC 61646, IEC 61730-01, IEC 61730-02, IEC 61701, UL 1703 and CEC(in progress), ISO 9001, ISO 14001, CE Mark, FSEC, MCS, SEC, and TUV



MECHANICAL SPECIFICATIONS					
Dimensions	1981 x 1308 x 6 mm (6.50 x 4.29 x 0.02 ft)				
Weight	36.3 kg (80 lbs)				
Area	2.59 m ² (27.9 ft ²)				
Cell Type	Bifacial Hybrid Cell Technology (HCT)				
Module Type	96, Frameless double glass design with tempered glass				
Glass	Tempered 2.9 mm anti-reflective coating, low iron				
Junction Box	IP-67 rated; 1000V UL/IEC, 3 diodes				
Cables	4 mm ² x 1.2 m cable with MC4 connectors or MC4 compatible connectors				
Clamps	Sunpreme 200mm				
PACKAGING					
Modules per crate 20					
Crate per shipping container 16					



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