

## MAXIMA GxB 310 SL 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 SmartSilicon hybrid cell technology produces more power [kW] than conventional crystalline silicon solar panels at the same elevated temperature.



#### **Guaranteed Performance**

All modules have a 10 year product warranty and 25 year power output warranty.



## **Superior Aesthetics**

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 utilizes 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).

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## **High Efficiency**

18.8% Module Efficiency (STC), 20.7% Efficiency with 10% Backside Power Boost, and 22.6% 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

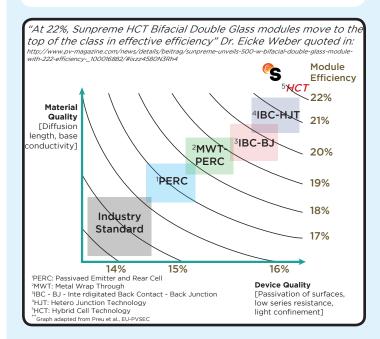
## 10 YEAR

PRODUCT WARRANTY

## **25 YEAR**

POWER WARRANTY

Performance warranty obligations on GxB 310 SL module(s), if produced and sold during the Policy Period [July 15th, 2014 to Dec 31st, 2016], have been insured by Sunpreme with a Munich Re Group insurer, reinsured by Munich Reinsurance, a AA- rated reinsurer. Only Sunpreme or designated successor have a direct claim against the insurer.





# Maxima GxB 310 SL Bifacial Solar Module

High Performance 60-cell Thin-Film enabled Solar Module

ELECTRICAL SPECIFICATIONS <sup>1</sup>	290	300	310
STC rated output P <sub>MPP</sub> (W)	290	300	310
Cell Efficiency	20.7%	21.3%	21.6%
Module Efficiency STC	17.6%	18.2%	18.8%
Standard sorted output	-3%/+5%	-3%/+5%	-3%/+5%
Open Circuit Voltage $V_{OC}$ (V)	43.9	44.9	45.1
Short circuit current $I_{SC}$ (A)	9.2	9.3	9.3
Rated Voltage V <sub>MPP</sub> (V)	33.7	34.5	35.6
Rated Current I <sub>MPP</sub> (A)  1: Standard Test Conditions for front-face of panel: 1000 W	8.6	8.7	8.7

BI-FACIAL OUTPUT			
With 10% Backside Power Boost			
Power Output (W)	319	330	341
Module Efficiency	19.5%	20.1%	20.7%
With 20% Backside Power Boost			
Power Output (W)	348	360	372
Module Efficiency *Backside boost for flush mount configuration is <5'	21.2% %, resulting in $I_{sc} \le$	<b>22.0%</b> 9.56 - 9.77 A	22.6%

TEST OPERATING CONDITIONS	
Operating Temperature	- 40 to + 85°C
Storage Temperature	- 40 to + 85°C
Maximum Series Fuse	15 A
Maximum System Voltage	600V UL / 1000VDC IEC
Power/Sq.Ft. w/ 20% backside power boost	20.3 W / Sq. Foot
Maximum load capacity	4,000 Pa (snow load) 150 mph wind rating
Fire Class	Class A - Type 10

TEMPERATURE COEFFICIENTS	
Temperature coefficient P <sub>MPP</sub>	-0.28%/C
Temperature coefficient I <sub>sc</sub>	+0.015%/C
Temperature coefficient V <sub>oc</sub>	-0.21%/C
Normal operating cell temperature (NOCT)°C	46C +/- 2

# WARRANTY 10 year extended product warranty 95% power warranty first 5 years -0.6% or less per year degradation for the

-0.6% or less per year degradation for the following 20 years

## **CERTIFICATION**

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









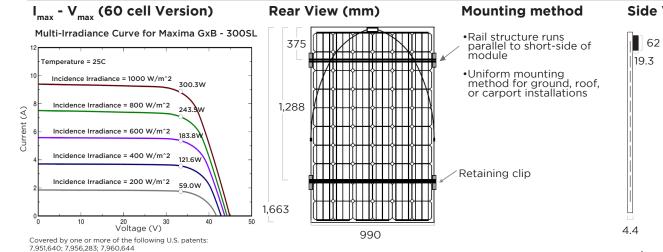


<b>MECHANICAL</b>	<b>SPECIFICATIONS</b>
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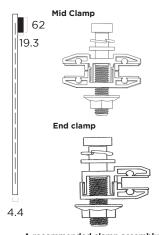
Dimensions	1,663 x 990 x 4.4 mm (5.46 x 3.25 x 0.015 ft)
Weight	18.0 kg (39.68 lbs)
Area	1.64 m <sup>2</sup> (17.7 ft <sup>2</sup> )
Cell type	Bifacial Hybrid Cell Technology (HCT)
Module type	60 Cells, Frameless double glass design, no grounding required
Glass	Strengthened, 2.0mm, anti- reflective coating, low-iron
Junction Box	Tyco IP-67 rated; 1,000V UL/IEC, 3 diodes
Cables	4mm <sup>2</sup> x 0.9 m cable: MC4 or MC4 Compatible Tyco connectors MC4
Clamps	Recommended Sunpreme 200mm

## **PACKAGING**

Modules per crate	26
Crates per shipping container	28



## Side View (mm)



A recommended clamp assembly