MAXIMA GxB 350W 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). N-type cells packaged in frameless double glass modules yield higher power and do not suffer from light-induced degradation (LID) or potential induced degradation (PID).

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 in 9 different countries.

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

SmartSilicon Technology

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

Unlike conventional silicon or thin-film technologies, Sunpreme uses highly-scalable process to deliver high efficiency solar power at very competitive Levelized Cost of Energy (LCOE).

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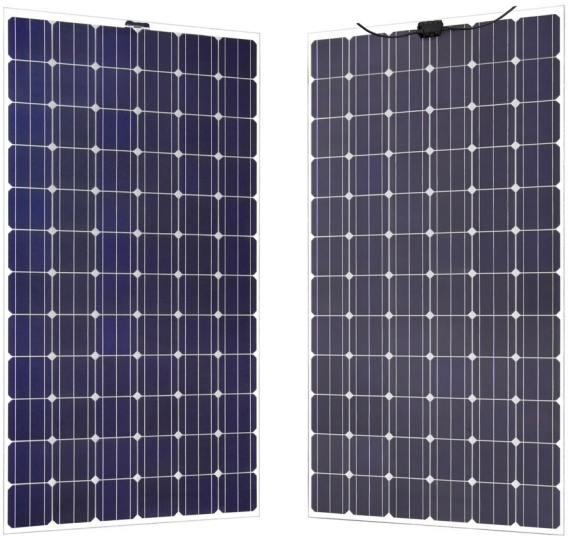


Front view **Back view**

High Efficiency

18% Module Efficiency (Mono-facial),
20% Efficiency with 10% Backside Power Boost, and over 21% with 20% Backside Power Boost

Bifacial Energy Boost

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

Dual-Glass Frameless Design

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

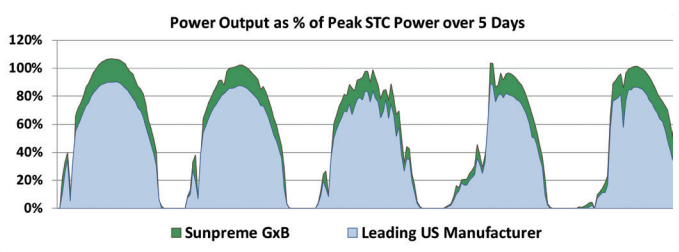
10 YEAR

PRODUCT WARRANTY

25 YEAR

POWER WARRANTY

In head-to-head testing with a leading US manufacturer, Sunpreme's Maxima GxB panel outperforms the competition with over 20% higher power output, exceeding the STC Power rating under real world conditions



Maxima GxB 350W Bifacial Solar Module

High Performance 72-cell N-type Solar Module

ELECTRICAL SPECIFICATIONS[1]	340	350	360
STC rated output P_{MPP} (W)	340	350	360
Cell Efficiency	20.5%	21.0%	21.5%
Module Efficiency STC	17.5%	18%	18.6%
Standard sorted output	-3%/+5%	-3%/+5%	-3%/+5%
Open Circuit Voltage V_{OC} (V)	51.4	51.8	52.2
Short circuit current I_{SC} (A)	9.0	9.1	9.2
Rated Voltage V_{MPP} (V)	41	41.6	42.4
Rated Current I_{MPP} (A)	8.3	8.4	8.5

1: Standard Test Conditions for front-face of panel: 1000 W/m², 25°C.

BI-FACIAL OUTPUT			
With 10% Backside Power Boost			
Power Output (W)	374	385	396
Module Efficiency	19.3%	19.8%	20.4%
With 20% Backside Power Boost			
Power Output (W)	408	420	432
Module Efficiency	21.0%	21.6%	22.3%

TEST OPERATING CONDITIONS	
Operating Temperature	- 40 to + 85°C
Storage Temperature	- 40 to + 85°C
Maximum Series Fuse	15 A
Maximum System Voltage	1,000VDC (UL & IEC)
Power/Sq.Ft. w/ 20% backside power boost	20.1 W / Sq. Foot
Maximum load capacity	5,400 Pa (snow load) 185 mph wind rating
Fire Class	Class C

TEMPERATURE COEFFICIENTS	
Temperature coefficient P_{MPP}	-0.31%/C
Temperature coefficient I_{SC}	+0.06%/C
Temperature coefficient V_{OC}	-0.27%/C
Normal operating cell temperature (NOCT)°C	46C +/- 2

WARRANTY (BACKED BY Munich RE)

10 year extended product warranty

95% power warranty first 5 years

-0.6% per year degradation for the following 20 years

CERTIFICATION

Certified to UL 1703, IEC 61646, IEC 61730-01, IEC 61730-02, IEC 61701 standards, CEC & FSEC listed, and CE mark

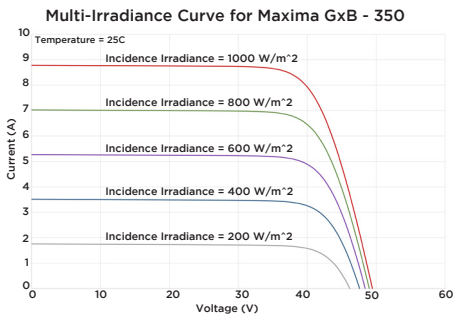
MECHANICAL SPECIFICATIONS

Dimensions	1,959 x 990 x 6 mm (6.43 x 3.25 x 0.02 ft)
Weight	27.3 kg
Area	1.94m² (20.88 ft²)
Cell type	Bifacial Mono N-type with proprietary SmartSilicon Hybrid Cell Technology (HCT)
Module type	72 Cells, Frameless double glass design with tempered glass, no grounding required
Glass	Tempered 2.9mm anti-reflective coating, low-iron
Junction Box	Tyco IP-67 rated; 1,000V UL/IEC, 3 diodes
Cables	4mm² x 0.9 m cable: MC4 or MC4 compatible Tyco connectors

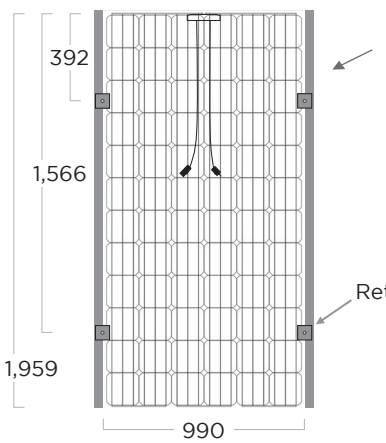
PACKAGING

Modules per crate	26
Crate per shipping container	22

I_{max} - V_{max} (72 cell Version)



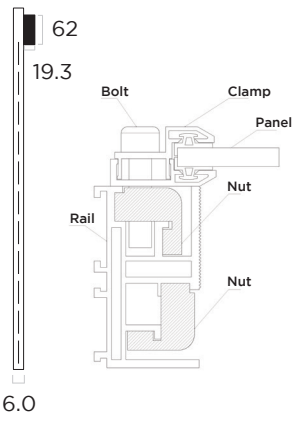
Rear View (mm)



Mounting method

- Rail structure runs parallel to long-side of module
- Compatible with bifacial module (minimizes back-side shading)
- Uniform mounting method for ground, roof, or carport installations

Side View (mm)



Covered by one or more of the following U.S. patents: 7,951,640; 7,956,283; 7,960,644