

# MAXIMA GxB 390 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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### Front view

**Back view** 

# **High Efficiency**

20% Module Efficiency (STC), 21.6% Efficiency with 10% Backside Power Boost, and 23.5% 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

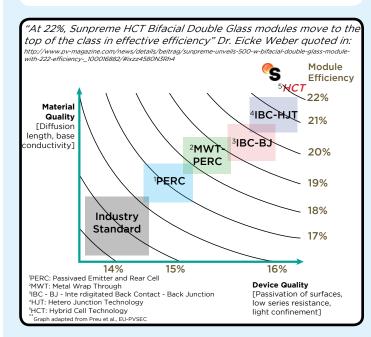
### 10 YEAR

PRODUCT WARRANTY

### **25 YEAR**

## POWER WARRANTY

Performance warranty obligations on GxB 370 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 390 Bifacial Solar Module

High Performance 72-cell Thin-Film enabled Solar Module

ELECTRICAL SPECIFICATIONS <sup>1</sup>	370	380	390
STC rated output $P_{MPP}(W)$	370	380	390
Cell Efficiency	21.7%	22.0%	22.3%
Module Efficiency STC	19.0%	19.5%	20.0%
Standard sorted output	-3%/+5%	-3%/+5%	-3%/+5%
Open Circuit Voltage V <sub>oc</sub> (V)	52.6	52.8	53.0
Short circuit current $I_{SC}$ (A)	9.30	9.34	9.38
Rated Voltage V <sub>MPP</sub> (V)	42.6	43.2	43.9
Rated Current I <sub>MPP</sub> (A) 1: Standard Test Conditions for front-face of panel: 1000 W/	8.7 /m², 25°C.	8.8	8.9

BI-FACIAL OUTPUT*			
With 10% Backside Power Boost			
Power Output (W)	407	418	429
Module Efficiency	21.0%	21.3%	21.6%
With 20% Backside Power Boost			
Power Output (W)	444	456	468
Module Efficiency *Backside boost for flush mount configuration is	22.9%	23.2%	23.5%

TEST OPERATING CONDITIONS				
Operating Temperature	- 40 to + 85°C			
Storage Temperature	- 40 to + 85°C			
Maximum Series Fuse	20 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 A - Type 3			

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TEMPERATURE COEFFICIENTS				
Temperature coefficient $P_{MPP}$	-0.28%/C			
Temperature coefficient I <sub>sc</sub>	+0.03%/C			
Temperature coefficient V <sub>oc</sub>	-0.23%/C			
Normal operating cell temperature (NOCT)°C	46C +/- 2			

## WARRANTY

10 year extended product warranty95% power warranty first 5 years

-0.6% 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, SEC, and TUV











## **MECHANICAL SPECIFICATIONS**

Dimensions	1,959 x 990 x 6 mm (6.43 x 3.25 x 0.02 ft)
Weight	27.3 kg (60.19 lbs)
Area	1.94m <sup>2</sup> (20.88 ft <sup>2</sup> )
Cell type	Bifacial 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	4mm <sup>2</sup> x 1.2 m cable: MC4 or MC4 compatible Tyco connectors
Clamps	Recommended Sunpreme 200mm

### **PACKAGING**

Modules per crate	26
Crate per shipping container	22

