



# 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 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.



### **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 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).



**Front View** 

**Back View** 

### **High Efficiency**

20.1% Module Efficiency (STC)

22.1% Module Efficiency with 10% Backside Power Boost

24.1% 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**

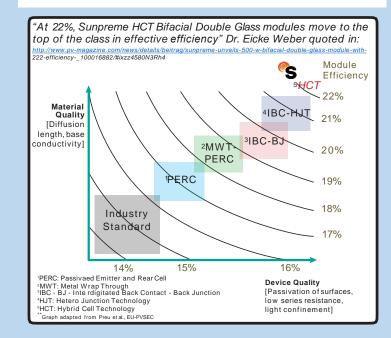
Sunpreme Design is more robust, and does not require module grounding

### 15 YEAR

PRODUCT WARRANTY

### 30 YEAR

POWER WARRANTY



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### Maxima GxB 390 Bifacial Solar Module

High Performance 72-cell Thin-Film enabled Solar Module

<b>ELECTRICAL SPECIFICATIONS</b>			
STC rated output P <sub>mpp</sub> (W)	370	380	390
Cell Efficiency	21.6%	21.8%	22.0%
Module Efficiency	19.1%	19.6%	20.1%
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 <sub>sc</sub> (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)	8.7	8.8	8.9

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

BIFACIAL OUTPUT*			
With 10% Backside PowerBoost			
Power Output (W)	407	418	429
Module Efficiency	21.0%	21.6%	22.1%
With 20% Backside PowerBoost			
Power Output (W)	444	456	468
Module Efficiency	22.9%	23.5%	24.1%

<sup>\*</sup>Backside boost for flush mount configuration is  $\leq$ 5%, resulting in I<sub>sc</sub>  $\leq$  9.56-9.77A

### **TEST OPERATING CONDITIONS**

Operating Temperature	-40 to 85°C
Storage Temperature	-40 to 85°C
Maximum Series Fuse	20 A
Maximum System Voltage	1,000 VDC (UL & IEC
Power/Sq. Ft. w/ 20% backside power b	oost 22.4 W/Sq. Foot
Maximum load capacity	5,400 PA (snow load) 185 mph/300 km/h wind rating
Fire Class	Class A – Type 3

TEMPERATURE COEFFICIENTS	
Temperature coefficients P <sub>mpp</sub>	-0.28%/C
Temperature coefficients I <sub>sc</sub>	+0.03%/C
Temperature coefficients V <sub>oc</sub>	-0.23%/C
Normal operating cell temperature (NOCT)°	46°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 1959 x 990 x 6 mm (6.43 x 3.24 x 0.02 ft) Weight 27.4 kg (60.5 lbs)

Area 1.96 m<sup>2</sup> (21.1 ft<sup>2</sup>)

Cell Type Bifacial Hybrid Cell Technology (HCT)

Module Type 72 Cells, Frameless double glass design

with tempered glass

Glass Tempered 2.9 mm anti-reflective

coating, low iron

Junction Box Tyco IP-67 rated; 1000V UL/IEC,

3 diodes

4 mm<sup>2</sup> x 1.2 m cable with MC4

Cables connectors or MC4 compatible

connectors

Clamps Sunpreme 200mm

### **PACKAGING**

Modules per crate	26
Crate per shipping container	22

#### Side View (mm) Rear View (mm) Mounting method I<sub>max</sub> - V<sub>max</sub> (72 cell Version) Rail structure runs Multi-Irradiance Curve for Maxima GxB 390 parallel to short-side of PV module: Sunpreme, Inc., SNPM-GxB 390 module if in portrait mount on roof top Cells temp. = 25 °C (1.2 m cable length) Incident Irrad. = 1000 W/m Rail structure runs 1519 parallel to long side of module in ground mount 1959 ncident Irrad. = 600 W/m (1.2 m cable length) ncident Irrad. = 400 W/m ent Irrad = 200 W/r Retaining clip Voltage [V] End clamp Covered by one or more of the following U.S. patents: 6.0 7,951,640; 7,956,283; 7,960,644