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).

www.sunpreme.com | info@sunpreme.com
Sunpreme: +1.866.245.1110

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.

“At 22%, Sunpreme HCT Bifacial Double Glass modules move to the top of the class in effective efficiency” Dr. Eicke Weber quoted in:

Material Quality
[Diffusion length, base conductivity]

Device Quality
[Passivation of surfaces, low series resistance, light confinement]
Maxima GxB 390 Bifacial Solar Module
High Performance 72-cell Thin-Film enabled Solar Module

**ELECTRICAL SPECIFICATIONS**

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<th>370</th>
<th>380</th>
<th>390</th>
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<tr>
<td>STC rated output $P_{\text{MPP}}$ (W)</td>
<td>370</td>
<td>380</td>
<td>390</td>
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<tr>
<td>Cell Efficiency</td>
<td>21.7%</td>
<td>22.0%</td>
<td>22.3%</td>
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<tr>
<td>Module Efficiency STC</td>
<td>19.0%</td>
<td>19.5%</td>
<td>20.0%</td>
</tr>
<tr>
<td>Standard sorted output</td>
<td>-3%/+5%</td>
<td>-3%/+5%</td>
<td>-3%/+5%</td>
</tr>
<tr>
<td>Open Circuit Voltage $V_{\text{OC}}$ (V)</td>
<td>52.6</td>
<td>52.8</td>
<td>53.0</td>
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<tr>
<td>Short circuit current $I_{\text{SC}}$ (A)</td>
<td>9.30</td>
<td>9.34</td>
<td>9.38</td>
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<tr>
<td>Rated Voltage $V_{\text{MP}}$ (V)</td>
<td>42.6</td>
<td>43.2</td>
<td>43.9</td>
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<tr>
<td>Rated Current $I_{\text{MP}}$ (A)</td>
<td>8.7</td>
<td>8.8</td>
<td>8.9</td>
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**WARRANTY**
- 10 year extended product warranty
- 95% 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

**BI-FACIAL OUTPUT**

*With 10% Backside Power Boost*
- Power Output (W) 407
- Module Efficiency 21.0%

*With 20% Backside Power Boost*
- Power Output (W) 444
- Module Efficiency 22.9%

*Backside boost for flush mount configuration is ≤5%, resulting in $I_{\text{SC}}$ ≤ 9.56 – 9.77 A

**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

**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: 1.94m² (20.88 ft²)
- 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: 4mm² 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

**TEMPERATURE COEFFICIENTS**
- Temperature coefficient $P_{\text{MPP}}$: -0.28%/C
- Temperature coefficient $I_{\text{SC}}$: +0.03%/C
- Temperature coefficient $V_{\text{OC}}$: -0.23%/C
- Normal operating cell temperature (NOCT)*C: 46°C +/- 2

**I_max - V_max** (72 cell Version)

**Rear View (mm)**

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<tr>
<th>434</th>
<th>1,525</th>
<th>1,959</th>
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**Mounting method**
- Rail structure runs parallel to short-side of module if in portrait mount on roof top (0.9m cable length)
- Rail structure runs parallel to long-side of module in ground mount (1.2m cable length)

**Side View (mm)**

- A recommended clamp assembly
- Mid Clamp
- End clamp
- Retaining clip

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

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ECN approval in progress