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Solar Panel Guide Specification Data Sheet

Sunpreme Maxima GxB 490-510 Frameless GxB 490

Also available on the web at EnergyPal.com/sunpreme-solar-panels/gxb-490



MAXIMA GxB 500 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 bifacial 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 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 Toll Free: +1.866.245.1110



High Efficiency

19.3 % Module Efficiency (STC),21.2 % efficiency with 10% Backside Power Boost,23.1 % 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

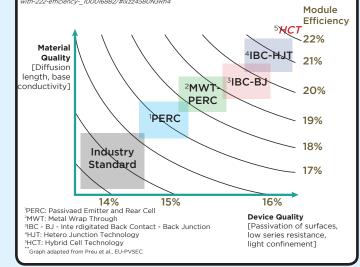
15 YEAR

PRODUCT WARRANTY

30 YEAR

POWER WARRANTY

"At 22%, Sunpreme HCT Bifacial Double Glass modules move to the top of the class in effective efficiency" Dr. Eicke Weber quoted in: http://www.pv-magazine.com/news/details/beitrag/sunpreme-unveils-500-w-bifacial-double-glass-modulewith-222-efficiency__100/0882/#itizz45800/8R4





Maxima GxB 500 Bifacial Solar Module

High Performance 96-cell Thin-Film enabled Solar Module

| ELECTRICAL SPECIFICATIONS ¹ | 490 | 500 | 510 |
|--|-------------------------|---------|---------|
| STC rated output P _{MPP} (W) | 490 | 500 | 510 |
| Cell Efficiency | 21.2% | 21.5% | 21.8% |
| Module Efficiency STC | 18.9% | 19.3% | 19.7% |
| Standard sorted output | -3%/+5% | -3%/+5% | -3%/+5% |
| Open Circuit Voltage V _{oc} (V) | 70.0 | 70.5 | 71.0 |
| Short circuit current I_{sc} (A) | 9.2 | 9.3 | 9.4 |
| Rated Voltage $V_{_{MPP}}$ (V) | 56.5 | 57.1 | 57.6 |
| Rated Current I _{MPP} (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) | 539 | 550 | 561 |
| Module Efficiency | 20.8% | 21.2% | 21.7% |
| With 20% Backside Power Boost | | | |
| Power Output (W) | 588 | 600 | 612 |
| Module Efficiency | 22.7% | 23.1% | 23.6% |
| * Backside boost for flush mount configuration is <5%, resulting in I $_{ m sc}$ <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 | 21.5 W / Sq. Foot |
| Maximum load capacity | 3,600 Pa (snow load) 125 mph (wind rating) |
| Fire Class | Class A - Type 3 |
| TEMPERATURE COEFFICIENTS | |
| Temperature coefficient P _{MPP} | -0.30%/C |
| Temperature coefficient I _{sc} | +0.04%/C |
| Temperature coefficient V _{oc} | -0.24%/C |
| Normal operating cell temperature (NOCT)°C | 45C +/- 2 |

WARRANTY

| 15 | year | product | warranty | |
|----|------|---------|----------|--|
|----|------|---------|----------|--|

97.5% power warranty first 5 years

-0.5% per year degradation for the following 25 years

CERTIFICATION

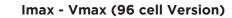
Certified to IEC 61646, IEC 61730-01, IEC 61730-02, IEC 61701, UL 1703, ISO 9001, ISO 14001, CEC, CE Mark, FSEC, MCS, and TUV

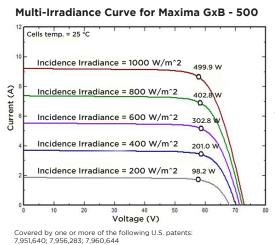


MECHANICAL SPECIFICATIONS

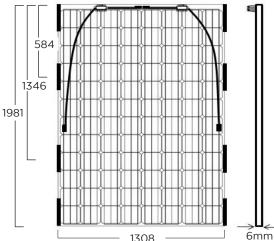
| Dimensions | 1,981 x 1,308 x 6 mm (6.50 x 4.29 x 0.02 ft) | |
|--------------|--|--|
| Weight | 36.3 kg (80.0 lbs) | |
| Area | 2.59m ² (27.90 ft ²) | |
| Cell type | Bifacial Hybrid Cell Technology (HCT) | |
| Module type | 96 Cells, Frameless double glass design with tempered glass, no grounding required | |
| Glass | Tempered 2.9mm anti-reflective coating, low-iron | |
| Junction Box | Tyco IP-67 rated; 1,000V UL/IEC, 3 diodes (2 units) | |
| Cables | 4mm ² x 1.2 m cable: MC4 or MC4 compatible Tyco connectors | |
| Clamps | Recommended Sunpreme 200mm | |
| PACKAGING | | |
| | | |

| Modules per crate | 20 |
|------------------------------|----|
| Crate per shipping container | 16 |









Clamp Profiles



Mid Clamp Profile with lock washers combination and nuts.

End Clamp Profile with lock washers combination and nuts.

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