For a Free Quote:

Web: EnergyPal.com/solar

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Solar Panel Guide Specification Data Sheet

Sunpreme
Maxima GxB 520
520

Also available on the web at EnergyPal.com/sunpreme-solar-panels/520



# Maxima GxB 520 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**

20.5% Module Efficiency (STC)
22.3% Module Efficiency with 10% Backside Power Boost
24.2% 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**

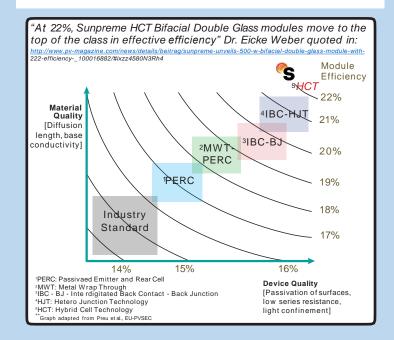
Sunpreme Design is more robust, and does not require module grounding

### **15 YEAR**

PRODUCT WARRANTY

### 30 YEAR

**POWER WARRANTY** 



Toll Free: +1.866.245.1110



### Maxima GxB 520 Bifacial Solar Module

High Performance Thin-Film enabled SolarModule

ELECTRICAL SPECIFICATIONS <sup>1</sup>			
STC rated output P <sub>mpp</sub> (W)	500	510	520
Cell Efficiency	21.5%	21.8%	22.0%
Module Efficiency	19.3%	19.7%	20.1%
Standard sorted output	-3%/5%	-3%/5%	-3%/5%
Open Circuit Voltage Voc (V)	70.5	71.0	71.5
Short circuit current I <sub>sc</sub> (A)	9.30	9.40	9.50
Rated Voltage V <sub>mpp</sub> (V)	57.1	57.6	58.1
Rated Current I <sub>mpp</sub> (A)	8.9	8.9	9.0
1: Standard Test Conditions for front-face of panel: 1000 W/m², 25°C			

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With 10% Backside PowerBoost			
Power Output (W)	550	561	572
Module Efficiency	21.2%	21.7%	22.1%
With 20% Backside PowerBoost			
Power Output (W)	600	612	624
Module Efficiency	23.2%	23.6%	24.1%

<sup>\*</sup>Backside boost for flush mount configuration is ≤5%, resulting in I<sub>sc</sub> ≤ 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	1,500 VDC (UL & IEC
Power/Sq. Ft. w/ 20% backside power be	oost 22.4 W/Sq. Foot
Maximum load capacity	3,600 PA (snow load) 125 mph/200 km/h wind rating
Fire Class	Class A – Type 3

-0.3%/C
+0.04%/C
-0.24%/C
45°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 SPECIFICATION	NS
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Dimensions	1981 x 1308 x 6 mm (6.50 x 4.29 x 0.02 ft)
Weight	36.3 kg (80 lbs)
Area	2.59 m <sup>2</sup> (27.9 ft <sup>2</sup> )
Cell Type	Bifacial Hybrid Cell Technology (HCT)
Module Type	96, Frameless double glass design with tempered glass

Glass	Tempered 2.9 mm anti-reflective
Glass	coating, low iron

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

4 mm<sup>2</sup> x 1.2 m cable with MC4 connectors or MC4 compatible Cables connectors

Clamps Sunpreme 200mm

### **PACKAGING**

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Modules per crate	20
Crate per shipping container	16

