WORLDS 2nd GENERATION SOLAR PANEL

SOLAIR WORLD™ INTERNATIONAL

MAXIMA GxB 300 SL 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 (PIO).

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 1509001.

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 SolAir World International
SolAir World International is a partner to a leading solar panel manufacturer with 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.

SolAir World International solar panels are designed and engineered in Silicon Valley, CA, USA.

Hybrid Cell Technology
Our modules use a 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, we are using highly scalable process to deliver high output solar power at very competitive Levelized Cost of Energy (LCOE).

FIRST NEW TECHNOLOGICAL IMPROVEMENT IN 10 YEARS

SL for Super Light Thin Glass

Front view | Back View

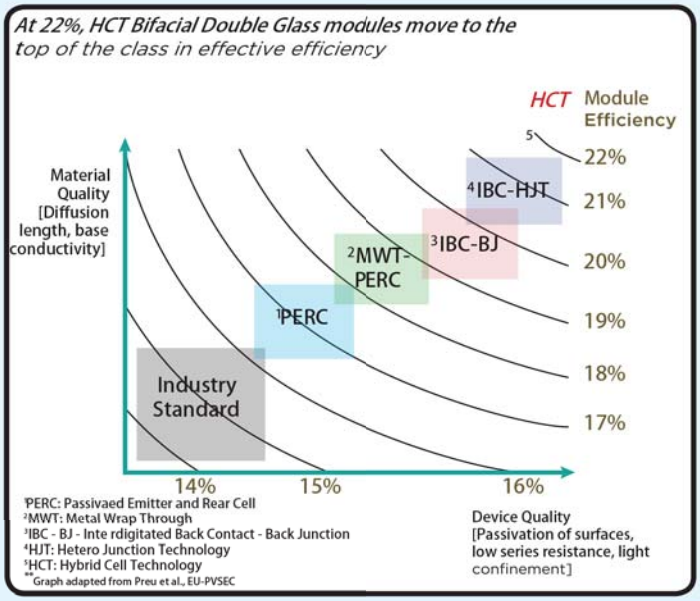
High Efficiency
18.2% Module Efficiency (STC),
20.1 % Efficiency with 10% Backside Power Boost, and
22% with 20% Backside Power Boost

Bifacial Energy Boost
Harvests sun from the backside to increase power output up to 20%

Double-Glass Frameless Design
Our Design is more robust, and does not require module grounding

10 YEAR
PRODUCT WARRANTY

25 YEAR
POWER WARRANTY



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Maxima GxB 300 SL Bifacial Solar Module

High Performance 60-cell Thin-Film enabled Solar Module

ELECTRICAL SPECIFICATIONS [1]	290	300	310
STC rated output P_{MPP} (W)	290	300	310
Cell Efficiency	20.7%	21.3%	22.0%
Module Efficiency STC	17.6%	18.2%	19.0%
Standard sorted output	-3%/+5%	-3%/+5%	-3%/+5%
Open Circuit Voltage V_{OC} (V)	43.9	44.9	45.1
Short circuit current I_{SC} (A)	9.2	9.3	9.3
Rated Voltage V_{MPP} (V)	33.7	34.5	35.6
Rated Current I_{MPP} (A)	8.6	8.7	8.7

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

BI-FACIAL OUTPUT *			
With 10% Backside Power Boost			
Power Output (W)	319	330	341
Module Efficiency	19.5%	20.1%	20.8%
With 20% Backside Power Boost			
Power Output (W)	348	360	372
Module Efficiency	21.2%	22.0%	22.7%

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

TEST OPERATING CONDITIONS	
Operating Temperature	- 40 to + 85° C
Storage Temperature	- 40 to + 85° C
Maximum Series Fuse	15 A
Maximum System Voltage	600V UL / 1000VDC IEC
Power/Sq.Ft. w/ 20% backside power boost	20.3 W / Sq. Foot
Maximum load capacity	4,000 Pa (snow load) 150 mph wind rating
Fire Class	Class A - Type 10

TEMPERATURE COEFFICIENTS	
Temperature coefficient P_{MPP}	-0.28%/C
Temperature coefficient I_{SC}	+0.015%/C
Temperature coefficient V_{OC}	-0.21%/C
Normal operating cell temperature (NOCT)° C	46C +/- 2

WARRANTY

10 year extended product warranty

95% power warranty first 5 years

-0.6% or less per year degradation for the following 20 years

CERTIFICATION

Certified to UL 1703, IEC 61646, IEC 61730-01, IEC 61730-02, IEC 61701 standards, CEC & FSEC listed, and CE mark

MECHANICAL SPECIFICATIONS

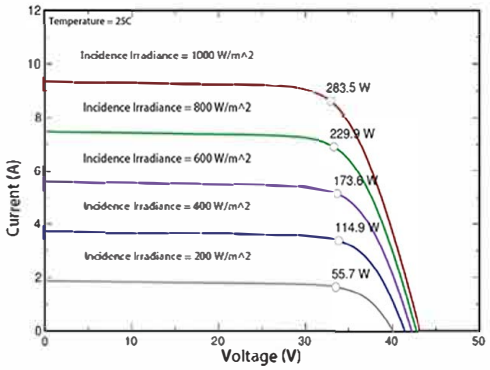
Dimensions	1,663 x 990 x 4.4 mm (5.46 x 3.25 x 0.015 ft)
Weight	18.0 kg (39.68 lbs)
Area	1.64 m^2 (17.7 ft^2)
Cell type	Bifacial Hybrid Cell Technology (HCT)
Module type	60 Cells, Frameless double glass design, no grounding required
Glass	Strengthened, 2.0mm, anti-reflective coating, low-iron
Junction Box	Tyco IP-67 rated; 1,000V UL/IEC, 3 diodes
Cables	4mm ^{2} x 0.9 m cable: MC4 or MC4 Compatible Tyco connectors MC4
Clamps	Recommended our 200mm

PACKAGING

Modules per crate	26
Crates per shipping container	28

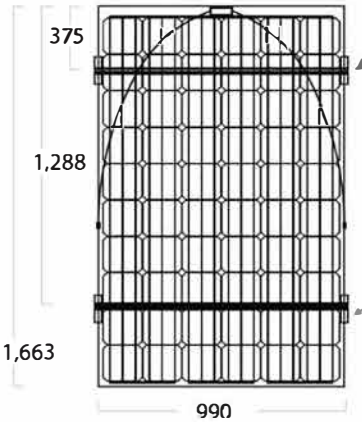
I_{max} - V_{max} (60 cell Version)

Multi-Irradiance Curve for Maxima GxB - 300SL



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

Rear View (mm)



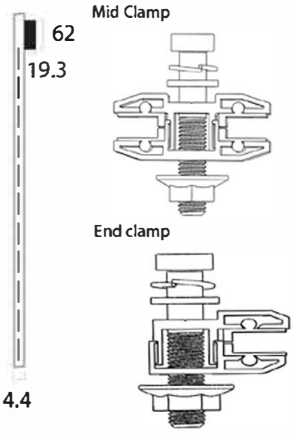
Mounting method

☒Rail structure runs parallel to short-side of module

☒Uniform mounting method for ground, roof, or carport installations

Retaining clip

Side View (mm)



A recommended clamp assembly

www.solairworld.com