

SLG-X Bifacial











360 Wp 72 Cell

Ultra-High-Efficiency Bifacial PV Module Clear Backsheet



航 📓 Fraunhofer



REVOLUTIONIZING NORTH AMERICAN BIFACIAL TECHNOLOGY

Silfab's Bifacial 360 ultra-high-efficiency modules are optimized with premium N-Type bifacial cells up to 21.5% front efficiency (23.2% module efficiency with up to 30% back side contribution). Designed to be architecturally distinct and delivering low-degradation and maximum power density.

REVOLUTIONIZING NORTH AMERICAN OUALITY

Silfab's fully-automated manufacturing facility ensures precision engineering is applied at every step. Superior reliability and performance combine to produce the lowest defect rate in the industry.

REVOLUTIONIZING NORTH AMERICAN CUSTOMIZED SERVICE

Silfab's 100% North American based team leverage just-in-time manufacturing to deliver unparalleled on-time delivery and flexible project solutions.



HIGHEST BIFACIAL FACTOR

85% of bifaciality factor ($\epsilon_{ff rear} = \epsilon_{ff front} \times 0.85$), using an N-type cell compared to the $\approx 50\%$ bifaciality factor of a P-type cell.

ENSURES MAXIMUM POWER

360 Wp (front side STC) equal to 451.9 Wpe (Watt Peak Equivalent) with 30% Bifacial gain.

PID RESISTANT

Anti PID (Potential Induced Degradation) technology.

HIGHEST AUTOMATION

With over 35 years of industry experience, Silfab's technical team are pioneers in PV technology and are dedicated to an innovative approach that provides superior manufacturing processes including: infra-red cell sorting, glass washing, automated soldering and meticulous cell alignment.

1000 VOLTS

Designed for high-voltage systems of up to 1000 V. 1500 V guoted upon request.

ARCHITECTURAL DESIGN

Esthetically designed for premium installations.

🔢 LID NEAR ZERO Virtually no LID (Light Induced Degradation) resulting in more power in year one vs. conventional technology.

REAR FACE UP TO 30%

Rear face contribution up to +30%.

BUILT BY INDUSTRY EXPERTS

The Silfab Bifacial PV module introduces technology developed in partnership with the German institute of research ISC Konstanz and Silfab Solar.

🕇 30-YEAR GUARANTEE

100% EL testing = Bankable 30-year performance warranty and the lowest defect rate in the industry at 44 PPM.

LINEAR POWER PERFORMANCE **GUARANTEE**

Over 88.4% guarantee at the end of the 30th year. Lower power reduction (<0.3%) compared to standard 0.8%/year.

POSITIVE TOLERANCE

(-0/+5W) module sorting achieves the maximum electrical performance of the PV system.

44 PPM DEFECT RATE*

Silfab's long-term experience on process and PV technology combined with top quality materials, independent supply chain management, strict guality controls and 100% EL testing = lower defect.*As of December 31, 2016.

AVAILABLE IN

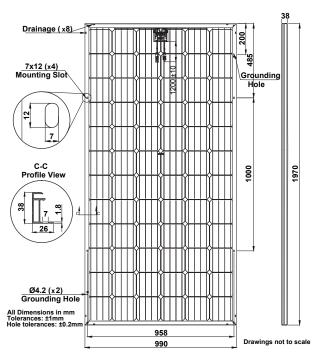
Silver Frame Only Black Frame on **Special Request**



SLG-X 360 Bifacial (72 Cell)		STC at Front + Irradiance % on back side				
Electrical Specifications	STC at Front	15%	20%	25%	30%	NOCT at Front
Pmp (W)	360.0	405.9	421.2	436.5	451.9	274.5
Imp (A)	8.9	9.95	10.33	10.68	11.04	6.8
Vmp (V)	40.3	39.44	39.46	39.52	39.53	40.3
lsc (A)	9.7	10.57	10.98	11.38	11.77	7.7
Voc (V)	47.5	47.81	47.86	47.90	47.98	47.0
Efficiency	18.46%	20.81%	21.60%	22.38%	23.17%	17.6%

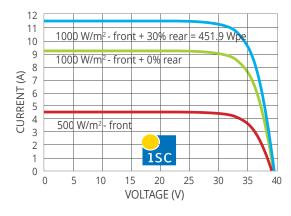
Measurement conditions: STC 1000 W/m2 · AM 1.5 · Temperature 25 °C · NOCT 800 W/m² · AM 1.5 · Temperature 20 °C · Measurement uncertainty \leq 3% · Sun simulator calibration reference modules from Fraunhofer Institute. Electrical characteristics may vary by ±5% and power by -0/+5W.

Output Power Advantages	STD	Silfab
LID after first week of installation	3.0%	0.3%
Power degradation from 1st to 12th year	0.6%	0.4%
Power degradation from 13th to 30th year	0.75%	0.4%



Warning: Read the installation and User Manual before handling, installing and operating modules.

Typical I-V curve 360W



Third-party generated pan files from PV Evolution Labs available for download at: www.silfab.ca/downloads

- PV MODULE
- Pallet Count: 30Container Count: 750

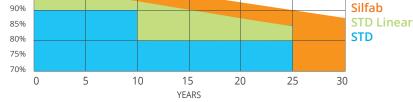


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Power Warranty Comparison

100%

95%



Temperature Coefficients (at 1000 W/m ²	, 25°C, AM1.5)	SILFAB SLG-X BIFACIAL	
Temperature Coefficient lsc	%/C	0.041	
Temperature Coefficient Voc	%/C	-0.280	
Temperature Coefficient Pmax	%/C	-0.415	
NOCT	°C	43 ± 2	
Operating Conditions		SILFAB SLG-X BIFACIAL	
Max system Voltage Vsys	1000 VDC	Safety Class II	
Max reverse Current lr	15A	Fire rating C	
Maximum surface load (wind/snow) Maximum static load, front 5400 Pa (112 lb/ft-sq) back 2400 Pa (50 lb/ft-sq)	Front 5400 Pa Back 2400 Pa	Permitted module temperature -40°C/+85°C	
Hail Impact Resistance	Ø 25 mm at 83 km/h		
Mechanical Properties and Components	SILFAB SLG-X BIFACIAL		
Module weight (± 1 kg)	kg	23	
Dimensions (H x L x D; ± 1mm)	mm	1970 x 990 x 38	
Cells		Bifacial N-type cell, monocrystalline, 4 busbar, 156.75 x 156.75 mm	
Glass	3.2 mm high transmittance, tempered, antireflective coating		
Encapsulant	PID-resistant POE		
Backsheet	Multilayer polyester-based		
Frame	Anodized Al		
Bypass Diodes	3 diodes-45V/12A		
Cables and connectors (see installation r	1200 mm ø 5.7 mm (4 mm²), MC4 compatible		
Warranties	SILFAB SLG-X BIFACIAL		
Module product warranty	12 years		
		30 years	
Linear power performance guarantee	≥ 99.3% end of 1st year ≥ 95% end of 12 th year ≥ 88.4% end of 30 th year		
Certifications		SILFAB SLG-X BIFACIAL	
Product	ULC ORD C1703, UL 1703, CEC listed		
		UL Fire Rating: Type 2 (Type 1 on request)	
Factory	ISO 9001:2008		