SLG-X
Bifacial

350 Wp 72 Cell

Ultra-High-Efficiency Bifacial PV Module Clear Backsheet

REVOLUTIONIZING NORTH AMERICAN BIFACIAL TECHNOLOGY
Silfab's Bifacial 350 ultra-high-efficiency modules are optimized with premium N-Type bifacial cells up to 21.5% front efficiency (22.5% 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 QUALITY
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 ($\varepsilon_{ff\ rear} = \varepsilon_{ff\ front}$ x 0.85), using an N-type cell compared to the ≈ 50% bifaciality factor of a P-type cell.

ENSURES MAXIMUM POWER
350 Wp (front side STC) equal to 439.3 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 quoted 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.

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.

LOWEST DEFECT RATE*
Total automation ensures strict quality control during each step of the process at our certified ISO manufacturing facility.
*82.56 ppm as per December 2017

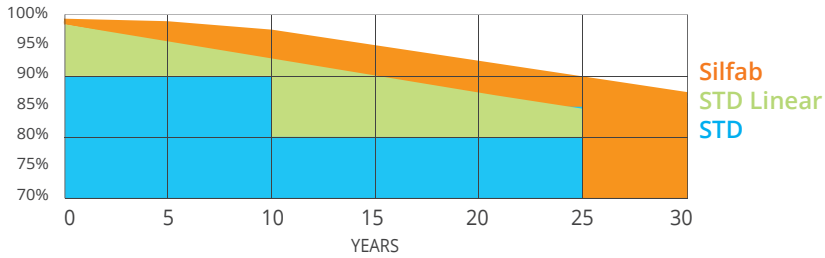
AVAILABLE IN
Silver Frame Only
Black Frame on Special Request

SLG-X 350 Bifacial (72 Cell)		STC at Front + Irradiance % on back side				
Electrical Specifications	STC at Front	15%	20%	25%	30%	NOCT at Front
Pmp (W)	350.0	394.7	409.5	424.3	439.3	266.9
Imp (A)	8.85	9.95	10.33	10.68	11.04	6.7
Vmp (V)	39.59	39.7	39.7	39.7	39.8	39.6
Isc (A)	9.38	10.57	10.98	11.38	11.77	7.5
Voc (V)	47.28	47.8	47.9	47.9	48.0	46.8
Efficiency	17.95%	20.24%	21.00%	21.76%	22.53%	17.1

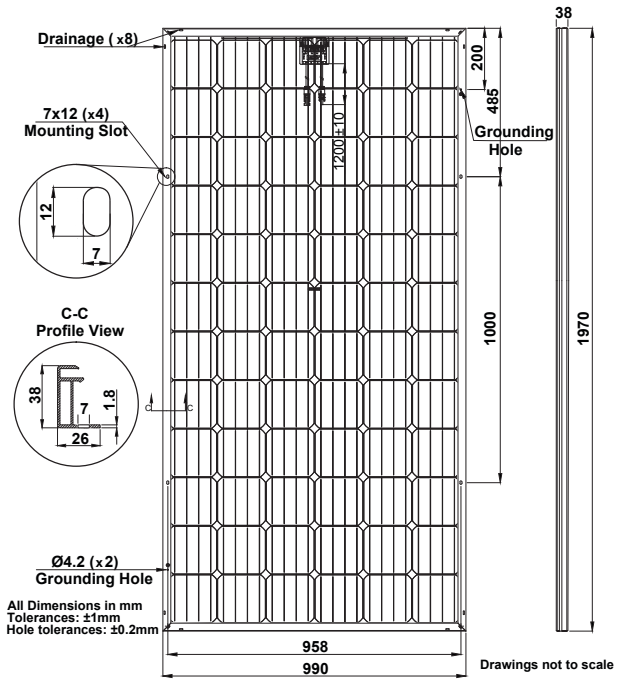
Measurement conditions: STC 1000 W/m2 • AM 1.5 • Temperature 25 °C • NOCT 800 W/m² • AM 1.5 • Temperature 20 °C • Measurement uncertainty ≤ 3% • Sun simulator calibration reference modules from Fraunhofer Institute. Electrical characteristics may vary by ±5% and power by -0/+5W.

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%

Power Warranty Comparison

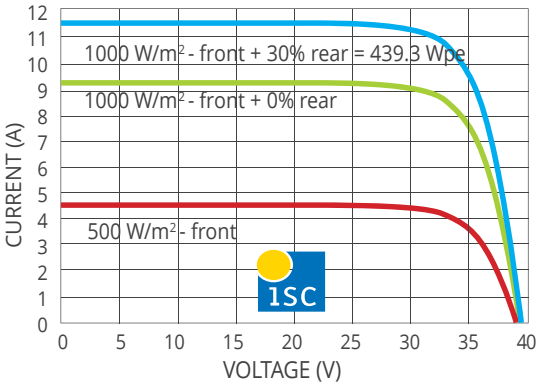


Temperature Coefficients (at 1000 W/m², 25°C, AM1.5)		SILFAB SLG-X BIFACIAL
Temperature Coefficient Isc	%/C	0.041
Temperature Coefficient Voc	%/C	-0.280
Temperature Coefficient Pmax	%/C	-0.415
NOCT	°C	43 ± 2
Operating Conditions		**SILFAB SLG-X BIFACIAL**
Max system Voltage Vsys	1000 VDC	Safety Class II
Max reverse Current Ir	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, 5 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/20A
Cables and connectors (see installation manual)		1200 mm ø 5.7 mm (4 mm²), MC4 compatible
Warranties		**SILFAB SLG-X BIFACIAL**
Module product warranty		12 years
Linear power performance guarantee		30 years ≥ 99.3% end of 1st year ≥ 95% end of 12th year ≥ 88.4% end of 30th year
Certifications		**SILFAB SLG-X BIFACIAL**
Product		ULC ORD C1703, UL 1703, CEC listed
		UL Fire Rating: Type 2 (Type 1 on request)
Factory		ISO9001:2015



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

Typical I-V curve 350W



Third-party generated pan files from Fraunhofer-Institute for Solar Energy Systems ISE are available for download at: www.silfabsolar.com/downloads

TOP PERFORMER 2017 DNV·GL PV MODULE RELIABILITY SCORECARD

- Modules Per Pallet: 25
- Pallets Per Truck: 30
- Modules Per Truck: 750

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