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.

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.

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 ($\varepsilon_{\text{rear}} = \varepsilon_{\text{front}} \times 0.85$), 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)  

<table>
<thead>
<tr>
<th>Electrical Specifications</th>
<th>STC at Front</th>
<th>Irradiance % on back side</th>
<th>NOCT at Front</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pmp (W)</td>
<td>350.0</td>
<td>15%</td>
<td>266.9</td>
</tr>
<tr>
<td>Imp (A)</td>
<td>9.95</td>
<td>20%</td>
<td>95%</td>
</tr>
<tr>
<td>Vmp (V)</td>
<td>39.7</td>
<td>25%</td>
<td>90%</td>
</tr>
<tr>
<td>Isc (A)</td>
<td>9.38</td>
<td>30%</td>
<td>75%</td>
</tr>
<tr>
<td>Voc (V)</td>
<td>47.28</td>
<td>40%</td>
<td>50%</td>
</tr>
<tr>
<td>Efficiency</td>
<td>17.95%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

- LID after first week of installation: 3.0% vs. 0.3%
- Power degradation from 1st to 12th year: 0.6% vs. 0.4%
- Power degradation from 13th to 30th year: 0.75% vs. 0.4%

Power Warranty Comparison

<table>
<thead>
<tr>
<th>Year</th>
<th>STD</th>
<th>Silfab</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>95%</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>90%</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>85%</td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>80%</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>75%</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>70%</td>
<td></td>
</tr>
</tbody>
</table>

Temperature Coefficients (at 1000 W/m², 25°C, AM1.5)  

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature Coefficient Isc</td>
<td>-0.041%/°C</td>
</tr>
<tr>
<td>Temperature Coefficient Voc</td>
<td>-0.415%/°C</td>
</tr>
<tr>
<td>Temperature Coefficient Pmax</td>
<td>-0.415%/°C</td>
</tr>
<tr>
<td>NOCT</td>
<td>43 ± 2°C</td>
</tr>
</tbody>
</table>

Mechanical Properties and Components

- Module weight (± 1 kg): 23 kg
- Dimensions (H x L x D; ± 1mm): 1970 x 990 x 38 mm
- 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

- Module product warranty: 12 years
- Linear power performance guarantee: 
  - ≥ 99.3% end of 1st year
  - ≥ 95% end of 12th year
  - ≥ 88.4% end of 30th year

Certifications

- Product: ULC ORD C1703, UL 1703, CEC listed
- UL Fire Rating: Type 2 (Type 1 on request)
- Factory: ISO9001:2015

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

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