**Sunmodule**

**SW 340-350 XL MONO**

- TUV Power controlled:
  - Lowest measuring tolerance in industry

- Every component is tested to meet
  - 3 times IEC requirements

- Designed to withstand heavy accumulations of snow and ice

- Available with either 1000 V or 1500 V maximum voltage rating

- 25-year linear performance warranty
  - and 10-year product warranty

- Glass with anti-reflective coating

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**World-class quality**

Fully-automated production lines and seamless monitoring of the process and material ensure the quality that the company sets as its benchmark for its sites worldwide.

**SolarWorld Plus-Sorting**

Plus-Sorting guarantees highest system efficiency. SolarWorld only delivers modules that have greater than or equal to the nameplate rated power.

**25-year linear performance guarantee and extension of product warranty to 10 years**

SolarWorld guarantees a maximum performance digression of 0.7% p.a. in the course of 25 years, a significant added value compared to the two-phase warranties common in the industry, along with our industry-first 10-year product warranty.*

*in accordance with the applicable SolarWorld Limited Warranty at purchase. [www.solarworld.com/warranty](http://www.solarworld.com/warranty)

solarworld.com
**PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)**

<table>
<thead>
<tr>
<th></th>
<th>SW 340</th>
<th>SW 345</th>
<th>SW 350</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum power ( P_{\text{max}} )</td>
<td>340 Wp</td>
<td>345 Wp</td>
<td>350 Wp</td>
</tr>
<tr>
<td>Open circuit voltage ( V_{\text{oc}} )</td>
<td>47.6 V</td>
<td>47.8 V</td>
<td>48.0 V</td>
</tr>
<tr>
<td>Maximum power point voltage ( V_{\text{mpp}} )</td>
<td>38.0 V</td>
<td>38.2 V</td>
<td>38.4 V</td>
</tr>
<tr>
<td>Short circuit current ( I_{\text{sc}} )</td>
<td>9.69 A</td>
<td>9.75 A</td>
<td>9.82 A</td>
</tr>
<tr>
<td>Maximum power point current ( I_{\text{mpp}} )</td>
<td>9.01 A</td>
<td>9.10 A</td>
<td>9.17 A</td>
</tr>
<tr>
<td>Module efficiency ( \eta_{\text{m}} )</td>
<td>17.04 %</td>
<td>17.29 %</td>
<td>17.54 %</td>
</tr>
</tbody>
</table>

**PERFORMANCE AT 800 W/m², NOCT, AM 1.5**

<table>
<thead>
<tr>
<th></th>
<th>SW 340</th>
<th>SW 345</th>
<th>SW 350</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum power ( P_{\text{max}} )</td>
<td>259.3 Wp</td>
<td>263.8 Wp</td>
<td>267.2 Wp</td>
</tr>
<tr>
<td>Open circuit voltage ( V_{\text{oc}} )</td>
<td>41.5 V</td>
<td>41.8 V</td>
<td>42.0 V</td>
</tr>
<tr>
<td>Maximum power point voltage ( V_{\text{mpp}} )</td>
<td>34.9 V</td>
<td>35.2 V</td>
<td>35.4 V</td>
</tr>
<tr>
<td>Short circuit current ( I_{\text{sc}} )</td>
<td>8.05 A</td>
<td>8.10 A</td>
<td>8.16 A</td>
</tr>
<tr>
<td>Maximum power point current ( I_{\text{mpp}} )</td>
<td>7.42 A</td>
<td>7.50 A</td>
<td>7.56 A</td>
</tr>
</tbody>
</table>

Minor reduction in efficiency under partial load conditions at 25°C: at 200 W/m², 100% of the STC efficiency (1000 W/m²) is achieved.

**COMPONENT MATERIALS**

- **Cells per module**: 72
- **Cell type**: Monocrystalline
- **Cell dimensions**: 6.17 in x 6.17 in (156.75 x 156.75 mm)
- **Front**: Low-iron tempered glass with ARC (EN 12150)
- **Frame**: Clear anodized aluminum
- **Weight**: 47.6 lbs (21.6 kg)

**THERMAL CHARACTERISTICS**

- **NOCT**: 46°C
- **
  \( TCI_{\text{oc}} \): 0.042 % /°C
- **
  \( TCV_{\text{oc}} \): -0.304 % /°C
- **
  \( TCP_{\text{mpp}} \): -0.43 % /°C
- **Operating temp**: -40 to +85°C

**ADDITIONAL DATA**

- **Power sorting**: -0 Wp/+5 Wp
- **J-Box**: IP65
- **Connector**: PV wire per UL4703 with H4/UTX connectors
- **Module fire performance**: (UL 1703) Type 1

**PARAMETERS FOR OPTIMAL SYSTEM INTEGRATION**

- **Maximum system voltage NEC**: 1000 V or 1500 V - Specify when ordering
- **Maximum system voltage SC II**: 1000 V
- **Maximum reverse current**: 25 A
- **Number of bypass diodes**: 3
- **Design loads**
  - **Two rail system**: 113 psf downward, 64 psf upward
  - **Edge mounting**: 178 psf downward, 23 psf upward

*Please refer to the Sunmodule installation instructions for the details associated with these load cases.

- Compatible with both “Top-Down” and “Bottom” mounting methods
- **Grounding Locations**: 4 locations along the length of the module in the extended flange.

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All units provided are imperial; SI units provided in parentheses.
SolarWorld AG reserves the right to make specification changes without notice.