Sunmodule® Plus
SW 285-300 MONO (33mm frame, 5 busbar)

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

Sunmodule Plus:
Positive performance tolerance

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

Glass with anti-reflective coating

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

solarworld.com
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SW 285-300 MONO (33mm frame, 5 busbar)

PERFORMANCE UNDER STANDARD TEST CONDITIONS (STC)*

<table>
<thead>
<tr>
<th></th>
<th>SW 285</th>
<th>SW 290</th>
<th>SW 295</th>
<th>SW 300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum power</td>
<td>$P_{\text{max}}$</td>
<td>285 Wp</td>
<td>290 Wp</td>
<td>295 Wp</td>
</tr>
<tr>
<td>Open circuit voltage</td>
<td>$V_{\text{oc}}$</td>
<td>39.7 V</td>
<td>39.9 V</td>
<td>40.0 V</td>
</tr>
<tr>
<td>Maximum power point voltage</td>
<td>$V_{\text{mpp}}$</td>
<td>31.3 V</td>
<td>31.4 V</td>
<td>31.5 V</td>
</tr>
<tr>
<td>Short circuit current</td>
<td>$I_{\text{sc}}$</td>
<td>9.84 A</td>
<td>9.97 A</td>
<td>10.10 A</td>
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<tr>
<td>Maximum power point current</td>
<td>$I_{\text{mpp}}$</td>
<td>9.20 A</td>
<td>9.33 A</td>
<td>9.45 A</td>
</tr>
<tr>
<td>Module efficiency</td>
<td>$n_{\text{mp}}$</td>
<td>17.00 %</td>
<td>17.30 %</td>
<td>17.59 %</td>
</tr>
</tbody>
</table>

PERFORMANCE AT 800 W/M², NOCT, AM 1.5

<table>
<thead>
<tr>
<th></th>
<th>SW 285</th>
<th>SW 290</th>
<th>SW 295</th>
<th>SW 300*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum power</td>
<td>$P_{\text{max}}$</td>
<td>213.1 Wp</td>
<td>217.1 Wp</td>
<td>220.5 Wp</td>
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<tr>
<td>Open circuit voltage</td>
<td>$V_{\text{oc}}$</td>
<td>36.4 V</td>
<td>36.6 V</td>
<td>36.7 V</td>
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<tr>
<td>Maximum power point voltage</td>
<td>$V_{\text{mpp}}$</td>
<td>28.7 V</td>
<td>28.8 V</td>
<td>28.9 V</td>
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<tr>
<td>Short circuit current</td>
<td>$I_{\text{sc}}$</td>
<td>7.96 A</td>
<td>8.06 A</td>
<td>8.17 A</td>
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<tr>
<td>Maximum power point current</td>
<td>$I_{\text{mpp}}$</td>
<td>7.43 A</td>
<td>7.54 A</td>
<td>7.64 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.

*Preliminary values, subject to change.

COMPONENT MATERIALS

- Cells per module: 60
- Cell type: Mono crystalline 5 bus bar
- Cell dimensions: 6.17 in x 6.17 in
- Weight: 39.7 lbs (18.0 kg)

THERMAL CHARACTERISTICS

- NOCT: 46°C
- $T_{\text{cl}}$: 0.04 %/K
- $T_{\text{cv}}$: -0.30 %/K
- $T_{\text{cp}}$: -0.41 %/K
- Operating temp: -40°C to +85°C

ADDITIONAL DATA

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

PARAMETERS FOR OPTIMAL SYSTEM INTEGRATION

- Maximum system voltage SC II / NEC: 1000 V
- Maximum reverse current: 25 A
- Number of bypass diodes: 3
- Design loads*: Two rail system - 113 psf downward, 64 psf upward
- Design loads*: Three rail system - 178 psf downward, 64 psf upward
- Design loads*: Edge mounting - 178 psf downward, 41 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.