Sunmodule®
SW 160/165/170/175/180/185 mono

The Sunmodule Plus heralds an innovative new module concept from SolarWorld. The Plus-sort (based on a SolarWorld flash report) and five watt model stepping ensures true, highest system efficiency and dispenses with the time-consuming task of sorting the modules on site. The fully automated production process at the SolarWorld factories creates a module quality that is consistently high, which in turn will ensure high yields for the long term.

The glass is set deep into the module frame and they are firmly attached to each other by silicone that is applied with continuous precision. This guarantees exceptional rigidity for the entire module and stops any possible loosening of the frame as a result of strong outward forces in cases such as sliding of heavy snow. Tests carried out in accordance with IEC 61215, applying loads up to 5.4 kN/m², confirm that the module can withstand high loads such as heavy accumulations of snow and ice.

The patented, flat and compact junction box provides perfect protection against corrosion, as well as a capacity to rapidly dissipate any excess heat providing lower operating temperature. The junction box is reliably connected by a solid, welded bond to guarantee lasting functionality. In addition, high-quality, robust cables with factory-equipped connectors are used. The ability to recycle the modules and a 25-year performance warranty are the finishing touches to this top-quality product.
Sunmodule®

SW 160/165/170/175/180/185 mono

**Performance under standard test conditions**

<table>
<thead>
<tr>
<th></th>
<th>SW 160</th>
<th>SW 165</th>
<th>SW 170</th>
<th>SW 175</th>
<th>SW 180</th>
<th>SW 185</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maximum power</strong></td>
<td>160 Wp</td>
<td>165 Wp</td>
<td>170 Wp</td>
<td>175 Wp</td>
<td>180 Wp</td>
<td>185 Wp</td>
</tr>
<tr>
<td><strong>Open circuit voltage</strong></td>
<td>43.8 V</td>
<td>44.0 V</td>
<td>44.2 V</td>
<td>44.4 V</td>
<td>44.6 V</td>
<td>44.8 V</td>
</tr>
<tr>
<td><strong>Maximum power point voltage</strong></td>
<td>31.0 V</td>
<td>31.3 V</td>
<td>31.5 V</td>
<td>31.8 V</td>
<td>32.0 V</td>
<td>32.3 V</td>
</tr>
<tr>
<td><strong>Maximum power point current</strong></td>
<td>5.02 A</td>
<td>5.10 A</td>
<td>5.20 A</td>
<td>5.50 A</td>
<td>5.50 A</td>
<td>5.50 A</td>
</tr>
</tbody>
</table>

**Thermal characteristics**

- **NOCT**: 46°C
- **TC Isc**: 0.036 %/K
- **TC Voc**: -0.33 %/K

**System integration parameters**

- **Maximum system voltage SC II**: 1,000 V DC
- **Maximum reverse current**: Do not apply external voltages larger than Voc to the module

**Additional data**

- **Power tolerance**: +/- 1 %
- **Junction box**: IP 65
- **Connector**: MC type 4

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**Component materials**

- **Cells per module**: 72
- **Cell type**: monocrystalline silicon
- **Cell dimensions**: 125 x 125 mm

**Construction**

- **Front**: tempered glass
- **2**: crystalline solar cells embedded in EVA (ethylene-vinyl acetate)
- **3**: Rear: Tedlar

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SolarWorld AG reserves the right to make specification changes without notice. This data sheet complies with the requirements of EN 50380.