AXIpremium

60 cell monocrystalline High performance solar module

The advantages:

- **15 Years** 15 years manufacturer’s warranty
- **P-Max** Highest performance due to specifically selected technologies and materials
- **Wp** Guaranteed positive power tolerance from 0-5 Wp by individual measurement
- **5,400 Pa** Maximum 5400 Pa snow load
- **100%** 100% electroluminescence inspection
- **Soft Grip** High stability due to AXITEC-Soft-Grip-Seam aluminium frame construction
- **IP 67** High quality junction box and connector systems

Exclusive linear AXITEC high performance guarantee!

- 15 years manufacturer’s guarantee on 90% of the nominal performance
- 25 years manufacturer’s guarantee on 85% of the nominal performance

AXITEC Warranty Added Value!

- **warranted module performance**
- **AXITEC Warranty Added Value!**
- **1 - 8% more power after 25 years**

100% 97% 90% 85% 80%

0% 5 10 15 20 25 Years

commercial level warranty

AXITEC Warranty Added Value!
### Distributed by:

**Limit values**
- System voltage: 1000 VDC
- NOCT (nominal operating cell temperature)*: 45°C +/-2K
- Max. load-carrying capacity: 5400 N/m²
- Reverse current feed IR: 16,0 A
- Permissible operating temperature: -40°C to 85°C / -40°F to 185°F

(No external voltages greater than Uoc may be applied to the module)

* NOCT, irradiance 800 W/m²; AM 1.5; wind speed 1 m/s; Temperature 20°C

### Temperature coefficients
- Voltage Uoc: -0,30 %/K
- Current Isc: 0,04 %/K
- Output Pmpp: -0,40 %/K

### Low-light performance (Example for AC-300M/156-60S)

<table>
<thead>
<tr>
<th>Current Ipp</th>
<th>Voltage Upp</th>
</tr>
</thead>
<tbody>
<tr>
<td>200 W/m²</td>
<td>2,15 A</td>
</tr>
<tr>
<td>400 W/m²</td>
<td>3,71 A</td>
</tr>
<tr>
<td>600 W/m²</td>
<td>6,05 A</td>
</tr>
<tr>
<td>800 W/m²</td>
<td>7,57 A</td>
</tr>
<tr>
<td>1000 W/m²</td>
<td>9,34 A</td>
</tr>
</tbody>
</table>

### Packaging
- Module pieces per pallet: 30
- Module pieces per HC-container: 840

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**Electrical data** (at standard conditions (STC) irradiance 1000 watt/m², spectrum AM 1.5 at a cell temperature of 25°C)

<table>
<thead>
<tr>
<th>Type</th>
<th>Nominal output</th>
<th>Nominal voltage</th>
<th>Nominal current</th>
<th>Short circuit current</th>
<th>Open circuit voltage</th>
<th>Module conversion efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-280M/156-60S</td>
<td>280 Wp</td>
<td>31,50 V</td>
<td>8,95 A</td>
<td>9,55 A</td>
<td>39,45 V</td>
<td>17,21 %</td>
</tr>
<tr>
<td>AC-285M/156-60S</td>
<td>285 Wp</td>
<td>31,59 V</td>
<td>9,09 A</td>
<td>9,68 A</td>
<td>39,56 V</td>
<td>17,52 %</td>
</tr>
<tr>
<td>AC-290M/156-60S</td>
<td>290 Wp</td>
<td>31,71 V</td>
<td>9,16 A</td>
<td>9,70 A</td>
<td>39,70 V</td>
<td>17,83 %</td>
</tr>
<tr>
<td>AC-295M/156-60S</td>
<td>295 Wp</td>
<td>31,80 V</td>
<td>9,29 A</td>
<td>9,75 A</td>
<td>39,95 V</td>
<td>18,13 %</td>
</tr>
<tr>
<td>AC-300M/156-60S</td>
<td>300 Wp</td>
<td>32,16 V</td>
<td>9,34 A</td>
<td>9,82 A</td>
<td>40,08 V</td>
<td>18,44 %</td>
</tr>
<tr>
<td>AC-305M/156-60S</td>
<td>305 Wp</td>
<td>32,49 V</td>
<td>9,39 A</td>
<td>9,89 A</td>
<td>40,14 V</td>
<td>18,75 %</td>
</tr>
<tr>
<td>AC-310M/156-60S</td>
<td>310 Wp</td>
<td>32,88 V</td>
<td>9,43 A</td>
<td>9,98 A</td>
<td>40,22 V</td>
<td>19,05 %</td>
</tr>
</tbody>
</table>

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**Design**
- Frontside: 3,2 mm hardened, low-reflection white glass
- Cells: 60 monocrystalline high efficiency cells 156 mm x 156 mm (6”)
- Backside: Composite film
- Frame: 35 mm silver anodized aluminium frame

**Mechanical data**
- L x W x H: 1640 x 992 x 35 mm
- Weight: 16,0 kg with frame

**Power connection**
- Socket: Protection Class IP67 (3 bypass diodes)
- Wire: approx. 1,1 m, 4 mm²
- Plug-in system: Plug/socket IP67

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Technical data are subject to change without prior notice, errors excepted.

The measurement tolerances are +/-3%