**AXIpremium**

60 cell monocrystalline
High performance solar module

German engineered – made for America

- 15 years manufacturer’s warranty
  Five more years than industry standard
- Highest performance due to specifically selected technologies and materials
- Positive power tolerance from 0-5 Wp
  Higher guaranteed yield
- Snow load of up to 113 psf
  Stable module for a long life in extreme conditions
- 100 % electroluminescence inspection
  Micro crack and hotspot free modules
- Axitec-Soft-Grip-Seam aluminum frame
  Higher stability and easier handling
- High quality junction box and connector system for a longer life time

**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!**

0% 100% 97% 90% 85% 80%

1 - 8 % more power after 25 years

(Ultrasafe Module over 600 Volts)

E487509
**AXIpremium 290 - 300 Wp**

**Design**
- **Frontside**: 0.13 inch (3.2 mm) hardened, low-reflection white glass
- **Cells**: 60 monocrystalline high efficiency cells 6 inch (156 x 156 mm)
- **Backside**: Composite film
- **Frame**: 1.38 inch (35 mm) silver anodized aluminium frame

**Mechanical data**
- **L x W x H**: 64.57 x 39.06 x 1.38 inch (1640 x 992 x 35 mm)
- **Weight**: 39.68 lbs (18.0 kg) with frame

**Power connection**
- **Socket**: Protection Class IP67 (3 bypass diodes)
- **Wire**: 43.3 inch, AWG 11
- **Plug-in system**: Plug/socket IP67

**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 Pmpp</th>
<th>Nominal voltage Umpp</th>
<th>Nominal current Impp</th>
<th>Short circuit current Isc</th>
<th>Open circuit voltage Uoc</th>
<th>Module conversion efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-290M/60S</td>
<td>290 Wp</td>
<td>32.01 V</td>
<td>9.06 A</td>
<td>9.54 A</td>
<td>39.42 V</td>
<td>17.83 %</td>
</tr>
<tr>
<td>AC-300M/60S</td>
<td>300 Wp</td>
<td>32.37 V</td>
<td>9.27 A</td>
<td>9.74 A</td>
<td>39.72 V</td>
<td>18.44 %</td>
</tr>
</tbody>
</table>

**Limit values**
- **System voltage**: 1000 VDC (UL) 1000 VDC (IEC)
- **Module Fire Performance**: TYPE 1 (UL 1703) or CLASS C (IEC 61730)
- **NOCT (nominal operating cell temperature)**: 45°C +/−2K
- **Max. load-carrying capacity**: 113 PSF
- **Reverse current feed IR**: 20.0 A
- **Permissible operating temperature**: -40°C to 85°C / -40°F to 185°F
- **(No external voltages greater than Vo 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/60S)

<table>
<thead>
<tr>
<th>Irradiance (W/m²)</th>
<th>Current Ipp</th>
<th>Voltage Upp</th>
</tr>
</thead>
<tbody>
<tr>
<td>200 W/m²</td>
<td>2.15 A</td>
<td>30.17 V</td>
</tr>
<tr>
<td>400 W/m²</td>
<td>3.71 A</td>
<td>31.20 V</td>
</tr>
<tr>
<td>600 W/m²</td>
<td>6.05 A</td>
<td>31.81 V</td>
</tr>
<tr>
<td>800 W/m²</td>
<td>7.57 A</td>
<td>32.10 V</td>
</tr>
<tr>
<td>1000 W/m²</td>
<td>9.27 A</td>
<td>32.37 V</td>
</tr>
</tbody>
</table>

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

All dimensions in inch

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

The measurement tolerances are +/-3%