290 - 300 Wp

AXIpremium

60 cell monocrystalline, 1000 V
High performance solar module

German engineered – made for America

15 years manufacturer’s warranty
Two 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!

1 - 8 % more power after 25 years

(Psq)
AXIPremium 290 - 300 Wp

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-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>

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

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 / -40F to 185F
(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>I-U characteristic curve</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

Technical data are subject to change without prior notice, errors excepted.
The measurement tolerances are +/-3%