**AXIpremium HC**

144 cell monocrystalline  
High performance solar module

German engineered – made for America

- 15 years manufacturer’s warranty
- Five more years than industry standard
- Highest module performance through  
  Half-Cut-technology and tested materials
- Positive power tolerance from 0-5 Wp
- Higher guaranteed yield
- Snow load of up to 50 psf
- Stable module for a long life in extreme conditions
- 100 % electroluminescence inspection
- Micro crack and hotspot free modules
- 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

100% warranted module performance

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**370 - 385 Wp**
Design

Frontside: 0.13 inch (3.2 mm) hardened, low-reflection white glass.

Cells: 144 monocrystalline high efficiency cells.

Backside: Composite film.

Frame: 1.57 inch (40 mm) silver aluminium frame.

Mechanical data

L x W x H: 78.74 x 39.06 x 1.57 inch (2000 x 992 x 40 mm).

Weight: 49.82 lbs (22.6 kg) with frame.

Power connection

Socket: Protection class IP68.

Wire: 43.3 inch, AWG 11.


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 (Wp)</th>
<th>Nominal voltage (V)</th>
<th>Nominal current (A)</th>
<th>Short circuit current (A)</th>
<th>Open circuit voltage (V)</th>
<th>Module conversion efficiency (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AC-370MH/144S</td>
<td>370 Wp</td>
<td>39.60 V</td>
<td>9.35 A</td>
<td>9.85 A</td>
<td>47.40 V</td>
<td>18.65%</td>
</tr>
<tr>
<td>AC-375MH/144S</td>
<td>375 Wp</td>
<td>39.81 V</td>
<td>9.43 A</td>
<td>9.93 A</td>
<td>47.61 V</td>
<td>18.90%</td>
</tr>
<tr>
<td>AC-380MH/144S</td>
<td>380 Wp</td>
<td>40.02 V</td>
<td>9.50 A</td>
<td>10.01 A</td>
<td>47.80 V</td>
<td>19.15%</td>
</tr>
<tr>
<td>AC-385MH/144S</td>
<td>385 Wp</td>
<td>40.21 V</td>
<td>9.58 A</td>
<td>10.08 A</td>
<td>48.00 V</td>
<td>19.41%</td>
</tr>
</tbody>
</table>

Limit values

System voltage: 1000 VDC (UL) 1000 VDC (IEC).

Module Fire Performance:
- TYPE 1 (UL 1703)
- CLASS C (IEC 61730)

NOCT (nominal operating cell temperature)*: 45°C +/-2K

Max. load-carrying capacity: 50 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

Voltage coefficients:
- Voltage Uoc: -0.29 %/K
- Current Isc: 0.04 %/K
- Output Pmpp: -0.39 %/K

Low-light performance (Example for AC-370MH/144S)

<table>
<thead>
<tr>
<th>I-U characteristic curve (W/m²)</th>
<th>Current Isc (A)</th>
<th>Voltage Upp (V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>200 W/m²</td>
<td>1.86 A</td>
<td>37.85 V</td>
</tr>
<tr>
<td>400 W/m²</td>
<td>3.80 A</td>
<td>38.20 V</td>
</tr>
<tr>
<td>600 W/m²</td>
<td>5.69 A</td>
<td>38.45 V</td>
</tr>
<tr>
<td>800 W/m²</td>
<td>7.61 A</td>
<td>38.70 V</td>
</tr>
<tr>
<td>1000 W/m²</td>
<td>9.35 A</td>
<td>39.60 V</td>
</tr>
</tbody>
</table>

Packaging

Module pieces per pallet: 25

Module pieces per HC-container: 550

Technical data are subject to change without prior notice, errors excepted. The measurement tolerances are +/-3%. Please be aware: All technical data provided in our data sheets are property of Axitec LLC and intended for information purposes for our customers only. We cannot accept any guarantee of completeness or accuracy. These data are prohibited for any kind of commercial use.