AXIpremium X HC

144 cell full-square 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
**AXIpremium X HC** 395 - 410 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 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-400MH/144S</td>
<td>400 Wp</td>
<td>40.77 V</td>
<td>9.81 A</td>
<td>10.64 A</td>
<td>48.55 V</td>
<td>19.88 %</td>
</tr>
<tr>
<td>AC-405MH/144S</td>
<td>405 Wp</td>
<td>40.95 V</td>
<td>9.89 A</td>
<td>10.71 A</td>
<td>48.73 V</td>
<td>20.13 %</td>
</tr>
<tr>
<td>AC-410MH/144S</td>
<td>410 Wp</td>
<td>41.12 V</td>
<td>9.97 A</td>
<td>10.79 A</td>
<td>48.91 V</td>
<td>20.38 %</td>
</tr>
</tbody>
</table>

**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 79.06 x 39.45 x 1.57 inch (2008 x 1002 x 40 mm)

Weight 51.81 lbs (23.5 kg) with frame

**Power connection**

Socket Protection Class IP68

Wire 43.3 inch, AWG 11

Plug-in system Plug/socket IP68, Stäubli MC4

**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 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

**Temperature coefficients**

Voltage Uoc -0.29 %/K

Current Isc 0.04 %/K

Output Pmp -0.39 %/K

**Low-light performance** (Example for AC-400M/144S)

<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>1.96 A</td>
<td>38.53 V</td>
</tr>
<tr>
<td>400 W/m²</td>
<td>3.90 A</td>
<td>39.23 V</td>
</tr>
<tr>
<td>600 W/m²</td>
<td>5.85 A</td>
<td>40.15 V</td>
</tr>
<tr>
<td>800 W/m²</td>
<td>7.84 A</td>
<td>40.43 V</td>
</tr>
<tr>
<td>1000 W/m²</td>
<td>9.81 A</td>
<td>40.77 V</td>
</tr>
</tbody>
</table>

**Packaging**

Module pieces per pallet 25

Module pieces per HC-container 550

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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.