**AXIpremium X HC**

High performance solar module  
120 halfcell, full-square, monocrystalline

The advantages:

- **15 Years** 15 years manufacturer’s warranty
- Highest module performance through Half-Cut-technology and tested materials
- Guaranteed positive power tolerance from 0-5 Wp by individual measurement
- Maximum 5400 Pa snow load
- 100% electroluminescence inspection
- High stability due to AXITEC-Soft-Grip-Seam aluminium frame construction
- 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!**

- 1 - 8 % more power after 25 years

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AXIpremium X HC 320 - 345 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-320MH/120V</td>
<td>320 Wp</td>
<td>33,21 V</td>
<td>9,64 A</td>
<td>10,11 A</td>
<td>40,25 V</td>
<td>18,96 %</td>
</tr>
<tr>
<td>AC-325MH/120V</td>
<td>325 Wp</td>
<td>33,45 V</td>
<td>9,73 A</td>
<td>10,18 A</td>
<td>40,37 V</td>
<td>19,26 %</td>
</tr>
<tr>
<td>AC-330MH/120V</td>
<td>330 Wp</td>
<td>33,74 V</td>
<td>9,79 A</td>
<td>10,25 A</td>
<td>40,49 V</td>
<td>19,56 %</td>
</tr>
<tr>
<td>AC-335MH/120V</td>
<td>335 Wp</td>
<td>33,98 V</td>
<td>9,87 A</td>
<td>10,31 A</td>
<td>40,65 V</td>
<td>19,85 %</td>
</tr>
<tr>
<td>AC-340MH/120V</td>
<td>340 Wp</td>
<td>34,19 V</td>
<td>9,96 A</td>
<td>10,39 A</td>
<td>40,82 V</td>
<td>20,15 %</td>
</tr>
<tr>
<td>AC-345MH/120V</td>
<td>345 Wp</td>
<td>34,45 V</td>
<td>10,02 A</td>
<td>10,47 A</td>
<td>40,98 V</td>
<td>20,45 %</td>
</tr>
</tbody>
</table>

**Design**
- Frontside: 3.2 mm hardened, low-reflection white glass
- Cells: 120 monocrystalline high efficiency cells
- Backside: Composite film
- Frame: 35 mm silver aluminium frame

**Mechanical data**
- L x W x H: 1684 x 1002 x 35 mm
- Weight: 19,0 kg with frame

**Power connection**
- Socket: Protection Class IP68
- Wire: approx. 1,1 m, 4 mm²
- Plug-in system: Plug/socket IP68, Stäubli EVO2 / EVO2 pluggable

**Limit values**
- System voltage: 1500 VDC
- NOCT (nominal operating cell temperature)*: 45°C +/-2K
- Max. load-carrying capacity: 5400 N/m²
- Reverse current feed IR: 20,0 A
- Permissible operating temperature: -40°C to 85°C / -40F to 185F

(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: -0.29 %/K
- Current Isc: 0,04 %/K
- Output Pmpp: -0.39 %/K

**Low-light performance** (Example for AC-345MH/120V)

<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>2.05 A</td>
<td>33,15 V</td>
</tr>
<tr>
<td>400 W/m²</td>
<td>4.13 A</td>
<td>33,54 V</td>
</tr>
<tr>
<td>600 W/m²</td>
<td>6.17 A</td>
<td>33,80 V</td>
</tr>
<tr>
<td>800 W/m²</td>
<td>8.16 A</td>
<td>34,09 V</td>
</tr>
<tr>
<td>1000 W/m²</td>
<td>10.02 A</td>
<td>34,45 V</td>
</tr>
</tbody>
</table>

**Packaging**
- Module pieces per pallet: 30
- Module pieces per HC-container: 780

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 Energy GmbH & Co.KG 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.