AXIblack premium XL HC

High performance solar module
120 halfcell, monocrystalline

German-American-Engineering

The advantages:

• 25 years Manufacturer's warranty

• High module performance through
  Half-Cut-technology and selected materials

• Guaranteed positive power tolerance
  from 0-5 Wp by individual measurement

• 100% visual electroluminescence inspection
  in production

• High stability due to innovative frame design

• 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
**AXIblack premium XL HC** 350 - 370 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-350MH/120VB</td>
<td>350 Wp</td>
<td>33.60 V</td>
<td>10.42 A</td>
<td>11.15 A</td>
<td>40.10 V</td>
<td>19.21 %</td>
</tr>
<tr>
<td>AC-355MH/120VB</td>
<td>355 Wp</td>
<td>33.80 V</td>
<td>10.51 A</td>
<td>11.25 A</td>
<td>40.30 V</td>
<td>19.49 %</td>
</tr>
<tr>
<td>AC-360MH/120VB</td>
<td>360 Wp</td>
<td>34.00 V</td>
<td>10.59 A</td>
<td>11.35 A</td>
<td>40.50 V</td>
<td>19.76 %</td>
</tr>
<tr>
<td>AC-365MH/120VB</td>
<td>365 Wp</td>
<td>34.20 V</td>
<td>10.68 A</td>
<td>11.43 A</td>
<td>40.70 V</td>
<td>20.04 %</td>
</tr>
<tr>
<td>AC-370MH/120VB</td>
<td>370 Wp</td>
<td>34.40 V</td>
<td>10.76 A</td>
<td>11.52 A</td>
<td>40.90 V</td>
<td>20.31 %</td>
</tr>
</tbody>
</table>

**Design**

- **Frontside**: 0.13 inch (3.2 mm) hardened, low-reflection white glass
- **Cells**: 120 monocrystalline high efficiency cells
- **Backside**: Composite film
- **Frame**: 1.38 inch (35 mm) black aluminium frame

**Mechanical data**

- L x W x H: 69.09 x 40.87 x 1.38 inch (1755 x 1038 x 35 mm)
- Weight: 42.99 lbs (19.5 kg) with frame

**Mechanical load**

- Design load (pressure/suction): 75.3 PSF / 33.3 PSF
- Test load (pressure/suction): 113 PSF / 50 PSF

**Power connection**

- Socket: Protection Class IP68
- Wire: 47.24 inch, AWG 11
- Plug-in system: Plug/socket IP68, Stäubli EVO2

**Limit values**

- System voltage: 1500 VDC (UL) 1500 VDC (IEC)
- Module Fire Performance: TYPE 1 (UL 1703) or CLASS C (IEC 61730)
- NOCT (nominal operating cell temperature): 45°C +/-2K
- Reverse current feed IR: 20.0 A
- Permissible operating temperature: -40°C to 85°C / -40F to 185F

*NOCT, irradiance 800 W/m²; AM 1.5; wind speed 1 m/s; Temperature 20°C

**Temperature coefficients**

- Voltage Uoc: -0.27 %/K
- Current Isc: 0.048 %/K
- Output Pmpp: -0.35 %/K

**Low-light performance** (Example for AC-370MH/120VB)

<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>2.20 A</td>
<td>33.11 V</td>
</tr>
<tr>
<td>400 W/m²</td>
<td>4.44 A</td>
<td>33.49 V</td>
</tr>
<tr>
<td>600 W/m²</td>
<td>6.63 A</td>
<td>33.75 V</td>
</tr>
<tr>
<td>800 W/m²</td>
<td>8.76 A</td>
<td>34.04 V</td>
</tr>
<tr>
<td>1000 W/m²</td>
<td>10.76 A</td>
<td>34.40 V</td>
</tr>
</tbody>
</table>

**Packaging**

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

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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.