AXIpremium HC BLK
25 year Edition

120 cell monocrystalline
High performance solar module

German engineered – made for America

- 25 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 113 psf
  Stable module for a long life in extreme conditions
- 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

PHOTOVOLTAIC MODULE
OVER 600 VOLTS) 5JK4
E487509

www.axitecsolar.us
**AXIpremium HC BLK 310 - 320 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-310MH/120S</td>
<td>310 Wp</td>
<td>32.58 V</td>
<td>9.52 A</td>
<td>9.95 A</td>
<td>39.58 V</td>
<td>18.66 %</td>
</tr>
<tr>
<td>AC-315MH/120S</td>
<td>315 Wp</td>
<td>32.79 V</td>
<td>9.61 A</td>
<td>10.04 A</td>
<td>39.74 V</td>
<td>18.96 %</td>
</tr>
<tr>
<td>AC-320MH/120S</td>
<td>320 Wp</td>
<td>33.03 V</td>
<td>9.69 A</td>
<td>10.13 A</td>
<td>39.92 V</td>
<td>19.26 %</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**: 65.94 x 39.06 x 1.38 inch (1675 x 992 x 35 mm)
- **Weight**: 40.79 lbs (18.5 kg) with frame

### Power connection
- **Socket**: Protection Class IP68
- **Wire**: 43.3 inch, AWG 11
- **Plug-in system**: Plug/socket IP68, Stäubli MC4

### 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 / -40°F to 185°F

### (No external voltages greater than Vo may be applied to the module)

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

### Low-light performance (Example for AC-310M1/120S)
- **I-U characteristic curve**
  - Current Ipp: 1.90 A, Voltage Upp: 30.75 V
  - Current Ipp: 3.86 A, Voltage Upp: 31.34 V
  - Current Ipp: 5.79 A, Voltage Upp: 31.77 V
  - Current Ipp: 7.67 A, Voltage Upp: 32.28 V

### 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%