



385 - 400 Wp

**AXITEC®**

## AXIblackpremium XXL HC

High performance solar module

108 halfcell, monocrystalline



German-American-Engineering

The advantages:

- 25 Years** 25 years Manufacturer's warranty
- HC** High module performance through Half-Cut-technology and selected materials
- Wp** Guaranteed positive power tolerance from 0-5 Wp by individual measurement
- 100%** 100 % visual electroluminescence inspection in production
- Frame** High stability due to innovative frame design
- IP 68** High quality junction box and connector systems

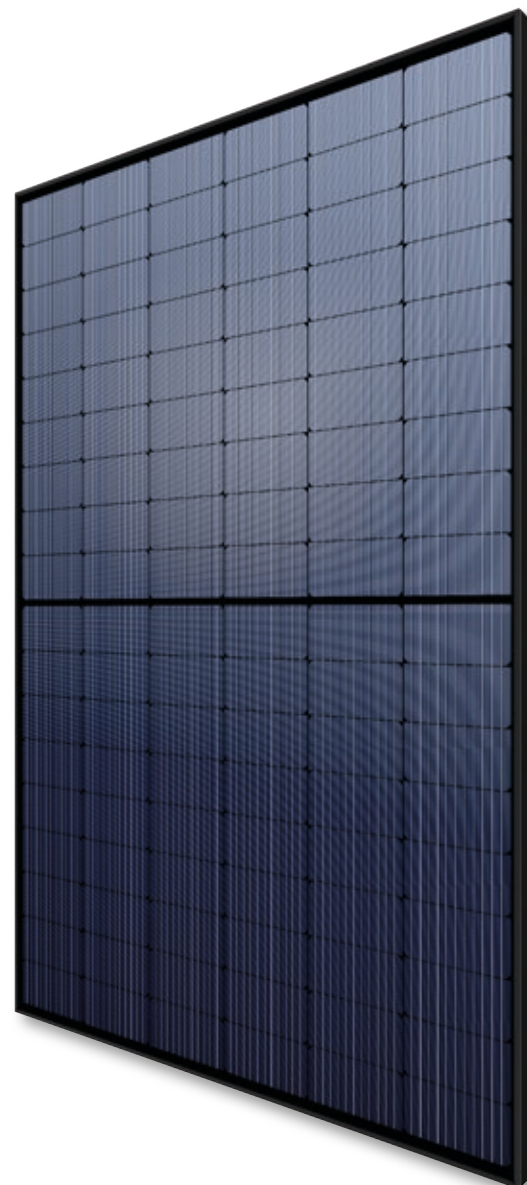
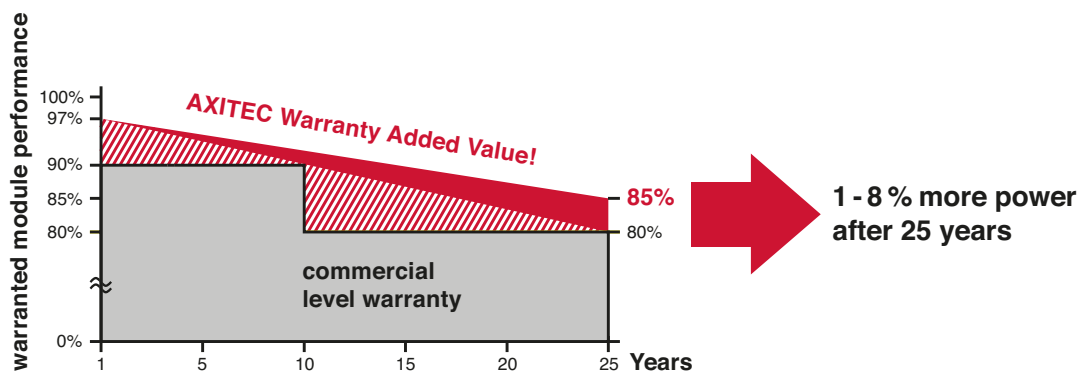


Fig. similar 108MHUSA220608A

### 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



Conforms to UL STD No.1703  
Certified to ULC/ORD Std. C1703

## AXIblackpremium XXL HC 385 - 400 Wp

**Electrical data** (at standard conditions (STC) irradiance 1000 watt/m<sup>2</sup>, spectrum AM 1.5 at a cell temperature of 25°C)

Type	Nominal output P <sub>mpp</sub>	Nominal voltage U <sub>mpp</sub>	Nominal current I <sub>mpp</sub>	Short circuit current I <sub>sc</sub>	Open circuit voltage U <sub>oc</sub>	Module conversion efficiency
AC-385MH/108VB	385 Wp	30.44 V	12.65 A	13.52 A	36.70 V	19.72 %
AC-390MH/108VB	390 Wp	30.64 V	12.73 A	13.61 A	36.85 V	19.97 %
AC-395MH/108VB	395 Wp	30.84 V	12.81 A	13.70 A	36.98 V	20.23 %
AC-400MH/108VB	400 Wp	31.01 V	12.90 A	13.79 A	37.07 V	20.48 %

### Design

Frontside	0.13 inch (3.2 mm) hardened, low-reflection white glass
Cells	108 monocrystalline high efficiency cells
Backside	Composite film
Frame	1.38 inch (35 mm) black aluminium frame

### Mechanical data

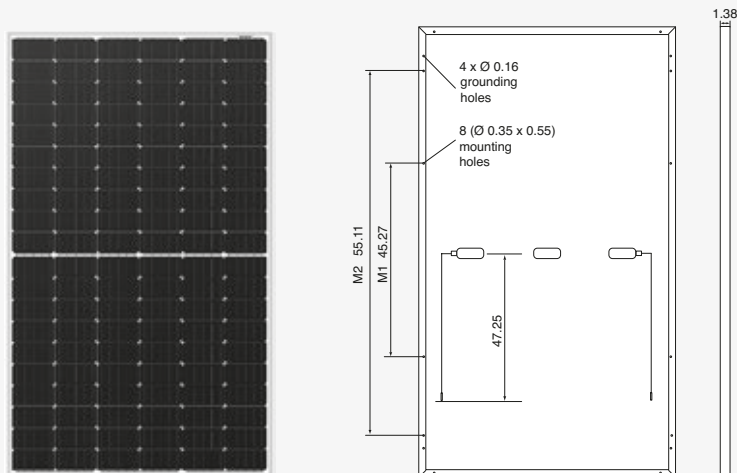
L x W x H	67.80 x 44.65 x 1.38 inch (1722 x 1134 x 35 mm)
Weight	47.40 lbs (21.5 kg) with frame

### 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	47.25 inch, AWG 12
Plug-in system	Plug/socket IP68, Stäubli MC4 / Stäubli EVO2



All dimensions in inch

### 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	25.0 A

Permissible operating temperature	-40°C to 85°C / -40F to 185F
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(No external voltages greater than V<sub>o</sub> may be applied to the module)

\* NOCT, irradiance 800 W/m<sup>2</sup>; AM 1.5; wind speed 1 m/s; Temperature 20°C

### Temperature coefficients

Voltage U <sub>oc</sub>	-0.28 %/K
Current I <sub>sc</sub>	0.045 %/K
Output P <sub>mpp</sub>	-0.35 %/K

### Low-light performance (Example for AC-400MH/108VB)

I-U characteristic curve	Current I <sub>pp</sub>	Voltage U <sub>pp</sub>
200 W/m <sup>2</sup>	2.64 A	29.84 V
400 W/m <sup>2</sup>	5.32 A	30.19 V
600 W/m <sup>2</sup>	7.95 A	30.42 V
800 W/m <sup>2</sup>	10.51 A	30.68 V
1000 W/m <sup>2</sup>	12.90 A	31.01 V

### Packaging

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