

AXIblackpremium XXL HC 400 - 420 Wp

High performance solar module

108 halfcell, monocrystalline



German-American-Engineering

The advantages:



15 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



25 years Performance guarantee

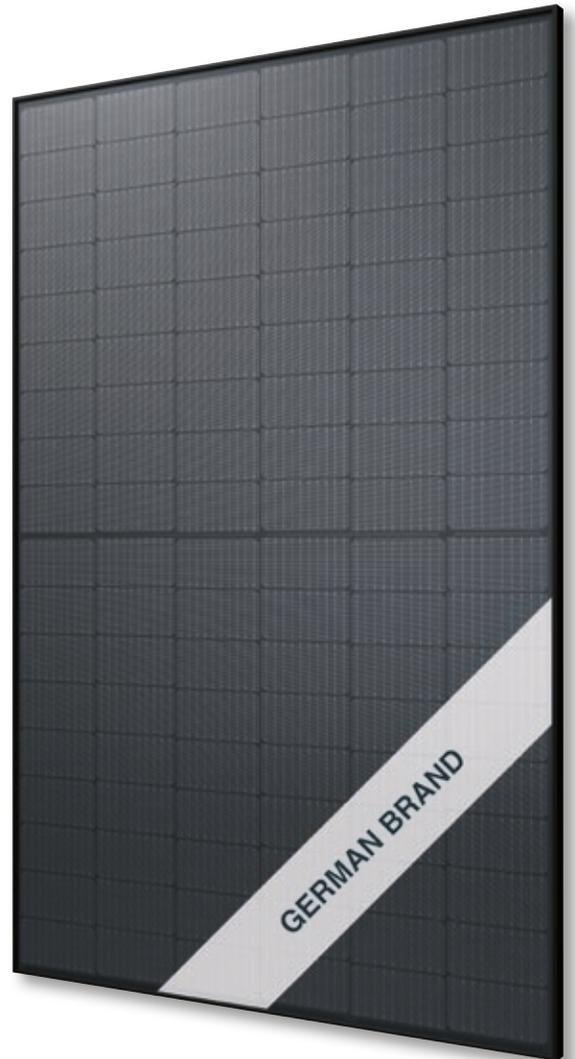
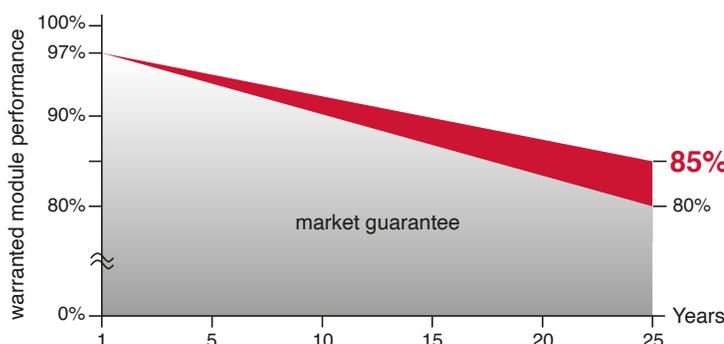


Fig. similar 108WHEN240805A

Exclusive linear AXITEC high performance guarantee!



85% AXITEC Warranty Added Value: up to 5% more power after 25 years



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

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Electrical data (at standard conditions (STC) irradiance 1000 watt/m², spectrum AM 1.5 at a cell temperature of 25°C)

Type	Nominal output P _{mpp}	Nominal voltage U _{mpp}	Nominal current I _{mpp}	Short circuit current I _{sc}	Open circuit voltage U _{oc}	Module conversion efficiency
AC-400MH/108VB	400 Wp	31.01 V	12.90 A	13.79 A	37.07 V	20.48 %
AC-405MH/108VB	405 Wp	31.21 V	12.98 A	13.87 A	37.23 V	20.74 %
AC-410MH/108VB	410 Wp	31.45 V	13.04 A	13.95 A	37.32 V	21.00 %
AC-415MH/108VB	415 Wp	31.61 V	13.13 A	14.02 A	37.45 V	21.25 %
AC-420MH/108VB	420 Wp	31.80 V	13.21 A	14.10 A	37.58 V	21.51 %

Design

Frontside	0.13 inch (3.2 mm) hardened, low-reflection white glass
Cells	108 monocrystalline high efficiency cells
Backside	Composite film
Frame	1.18 inch (30 mm) black aluminium frame

Mechanical data

L x W x H	67.80 x 44.65 x 1.18 inch (1722 x 1134 x 30 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

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_o 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 U _{oc}	-0.28 %/K
Current I _{sc}	0.045 %/K
Output P _{mpp}	-0.35 %/K

Low-light performance (Example for AC-420MH/108VB)

I-U characteristic curve	Current I _{pp}	Voltage U _{pp}
200 W/m ²	2.70 A	30.60 V
400 W/m ²	5.45 A	30.96 V
600 W/m ²	8.14 A	31.20 V
800 W/m ²	10.76 A	31.47 V
1000 W/m ²	13.21 A	31.80 V

Packaging

Module pieces per pallet	36
Module pieces per HC-container	936

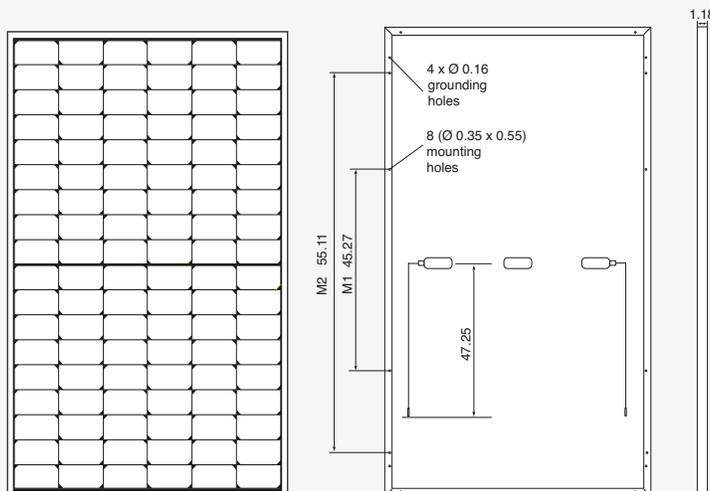


Fig. principle sketch

All dimensions in inch