

AXIpremium XXL HC BLK 400 - 415 Wp

High performance solar module
108 halfcell, monocrystalline



German-Australian-Engineering

The advantages:

25
Years 25 years Manufacturer's Product 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

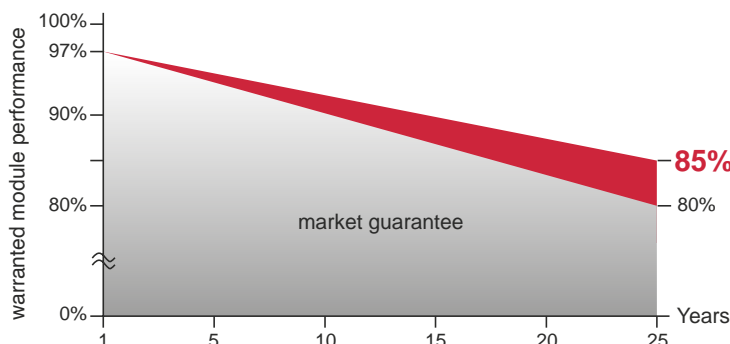
IP 68 High quality junction box and connector systems

*Subject to the terms and conditions contained in the applicable AXITEC Energy Australia Pty Ltd Warranty Statement. This 25-year limited product warranty is only available for residential rooftop installations within Australia with a maximum capacity of 40 kWp.



Fig. similar 08MH-AUS20905A

Exclusive linear AXITEC high performance guarantee!



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



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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} (± 3 %)	Nominal voltage U _{mpp} (± 2 %)	Nominal current I _{mpp} (± 2 %)	Short circuit current I _{sc} (± 2 %)	Open circuit voltage U _{oc} (± 2 %)	Module conversion efficiency
AC-400MH/108VAU	400 Wp	31.20 V	12.83 A	13.73 A	37.10 V	20.46 %
AC-405MH/108VAU	405 Wp	31.40 V	12.90 A	13.81 A	37.30 V	20.72 %
AC-410MH/108VAU	410 Wp	31.60 V	12.98 A	13.88 A	37.50 V	20.97 %
AC-415MH/108VAU	415 Wp	31.80 V	13.06 A	13.96 A	37.70 V	21.23 %

Design

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

Mechanical data

L x W x H	1724 x 1134 x 35 mm
Weight	22.0 kg with frame

Mechanical load

Design load (pressure/suction)	3600 Pa / 1600 Pa
Test load (pressure/suction)	5400 Pa / 2400 Pa

Power connection

Socket	Protection Class IP68
Wire	approx. 1.2 m, 4 mm ²
Plug-in system	Plug/socket IP68, Stäubli MC4 PV-KST4-EVO 2 / PV-KBT4-EVO 2

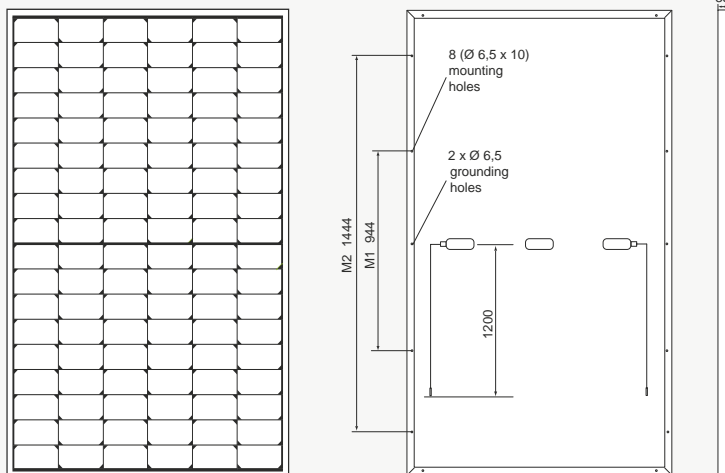


Fig. principle sketch

All dimensions in mm

Limit values

System voltage	1500 VDC
Module Fire Performance	CLASS C
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

(No external voltages greater than U_{oc} 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 _{mp}	-0.35 %/K

Low-light performance (Example for AC-415MH/108V)

I-U characteristic curve	Current I _{pp}	Voltage U _{pp}
200 W/m ²	2.67 A	30.60 V
400 W/m ²	5.38 A	30.96 V
600 W/m ²	8.04 A	31.20 V
800 W/m ²	10.64 A	31.47 V
1000 W/m ²	13.06 A	31.80 V

Packaging

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

country of origin:
made in People's Republic of China

