







## AXIpremium XXL HC BLK 400 - 415 Wp

High performance solar module  
108 halfcell, monocrystalline



German-Australian-Engineering

### The advantages:

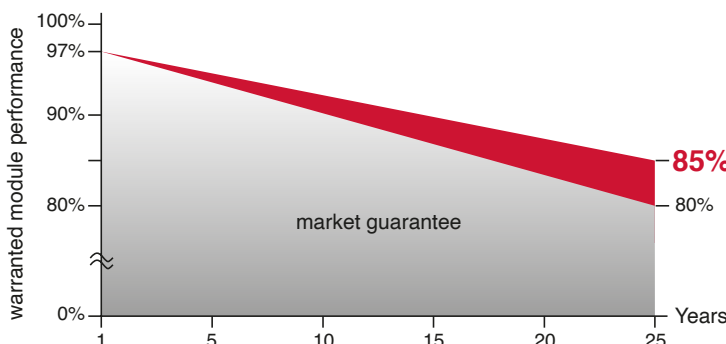
-  25 years Manufacturer's Product Warranty \*
-  High module performance through Half-Cut-technology and selected materials
-  Guaranteed positive power tolerance from 0-5 Wp by individual measurement
-  100% visual electroluminescence inspection in production
-  High stability due to innovative frame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

\*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-AUS220818A

### Exclusive linear AXITEC high performance guarantee!



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



# AXIpremium XXL HC BLK 400 - 415 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> (± 3 %)	Nominal voltage U <sub>mpp</sub> (± 2 %)	Nominal current I <sub>mpp</sub> (± 2 %)	Short circuit current I <sub>sc</sub> (± 2 %)	Open circuit voltage U <sub>oc</sub> (± 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	30 mm black aluminium frame

## Mechanical data

L x W x H	1724 x 1134 x 30 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 <sup>2</sup>
Plug-in system	Plug/socket IP68, Stäubli MC4 PV-KST4-EVO 2 / PV-KBT4-EVO 2

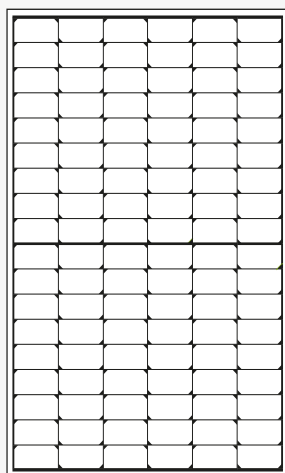
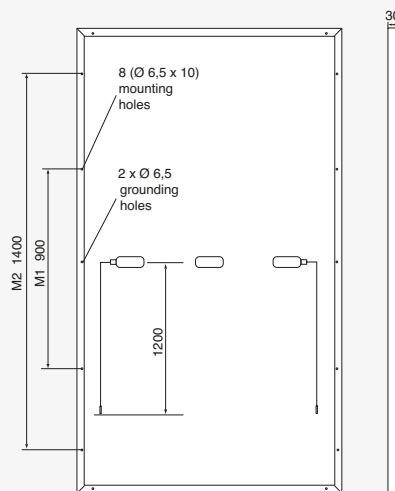


Fig. principle sketch



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<sub>oc</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>mp</sub>	-0.35 %/K

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

I-U characteristic curve	Current I <sub>pp</sub>	Voltage U <sub>pp</sub>
200 W/m <sup>2</sup>	2.67 A	30.60 V
400 W/m <sup>2</sup>	5.38 A	30.96 V
600 W/m <sup>2</sup>	8.04 A	31.20 V
800 W/m <sup>2</sup>	10.64 A	31.47 V
1000 W/m <sup>2</sup>	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

