

# AXIpremium XXL HC BLK

## 390 - 415 Wp

High performance solar module  
108 halfcell, monocrystalline

### The advantages:

- 15 Years** 15 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
- 25 Years** 25 years Manufacturer's guarantee

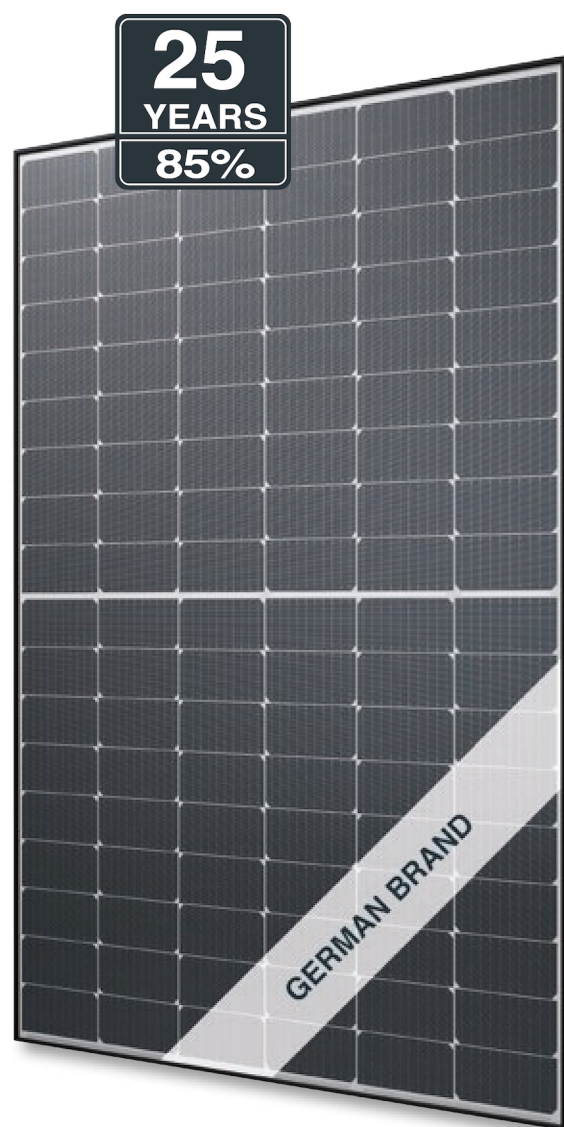
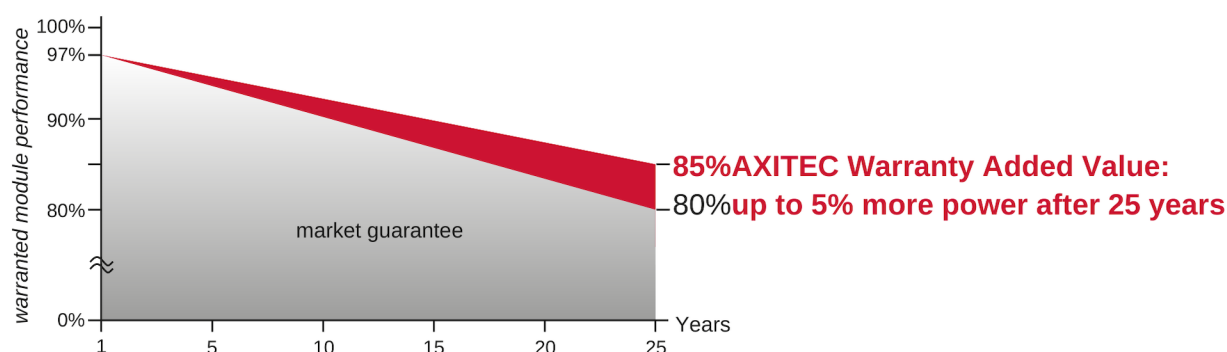


Fig. similar 06MHEN220707A

### Exclusive linear AXITEC high performance guarantee!



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**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> W <sub>pp</sub>	Nominal voltage U <sub>mpp</sub> V	Nominal current I <sub>mpp</sub> A	Short circuit current I <sub>sc</sub> A	Open circuit voltage U <sub>oc</sub> V	Module conversion efficiency
AC-390MH/108V	390 Wp	30.80 V	12.67 A	13.56 A	36.70 V	19.97 %
AC-395MH/108V	395 Wp	31.00 V	12.75 A	13.65 A	36.90 V	20.23 %
AC-400MH/108V	400 Wp	31.20 V	12.83 A	13.73 A	37.10 V	20.48 %
AC-405MH/108V	405 Wp	31.40 V	12.90 A	13.81 A	37.30 V	20.74 %
AC-410MH/108V	410 Wp	31.60 V	12.98 A	13.88 A	37.50 V	21.00 %
AC-415MH/108V	415 Wp	31.80 V	13.06 A	13.96 A	37.70 V	21.25 %

## 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	1722 x 1134 x 30 mm
Weight	21.8 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 EVO2 / EVO2 pluggable

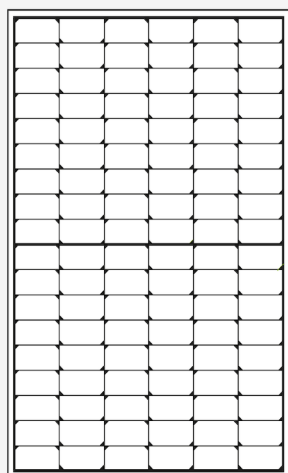
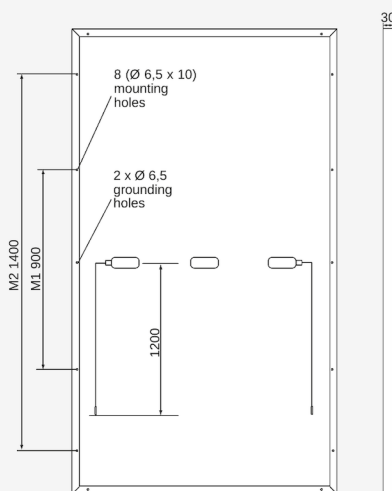


Fig. principle sketch



All dimensions in mm

## Limit values

System voltage	1500 VDC
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	35
Module pieces per HC-container	910

