AXIprotect XXL HC MB

390 - 400 Wp

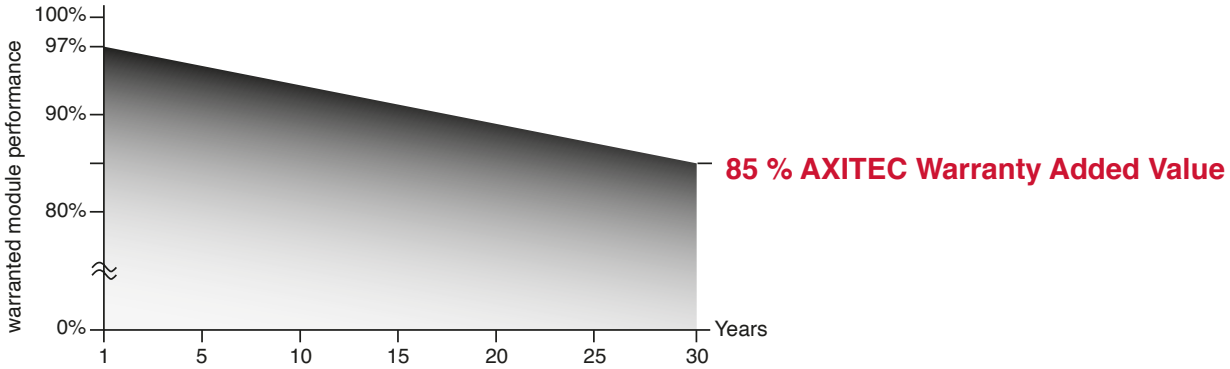
High performance solar module
108 halfcell, glas/glas, monocrystalline

Fig. similar 144MGEN220829A

The advantages:

- 15 Years — 15 years Manufacturer‘s warranty
- HC — High module performance through Half-Cut-technology and selected materials
- PID less — PID reduced trough glas/glas-Technologie
- Wp — Guaranteed positive power tolerance from 0-5 Wp by individual measurement
- 100% — 100 % visual electroluminescence inspection in production
- Safe — Increased safety trough improved fire protection
- Frame — High stability due to innovative frame design
- 30 Years — 30 years Manufacturer‘s guarantee

Exclusive linear AXITEC high performance guarantee!



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AXIprotect XXL HC MB 390 - 400 Wp

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

Type	Nominal output Pmpp	Nominal voltage Umpp	Nominal current Impp	Short circuit current Isc	Open circuit voltage Uoc	Module conversion efficiency
AC-390MG/108V	390 Wp	30.80 V	12.67 A	13.56 A	36.70 V	19.97 %
AC-395MG/108V	395 Wp	31.00 V	12.75 A	13.65 A	36.90 V	20.23 %
AC-400MG/108V	400 Wp	31.20 V	12.83 A	13.73 A	37.10 V	20.48 %

Design

Frontside	2.0 mm hardened, low-reflection white glass
Backside	2.0 mm hardened, low-reflection white glass
Cells	108 monocrystalline high efficiency cells
Film	Composite film (black)
Frame	30 mm black aluminium frame

Mechanical data

L x W x H	1722 x 1134 x 30 mm
Weight	26.0 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. 1.3 m, 4 mm²
Plug-in system	Plug/socket IP68, Stäubli EVO2 / EVO2 pluggable

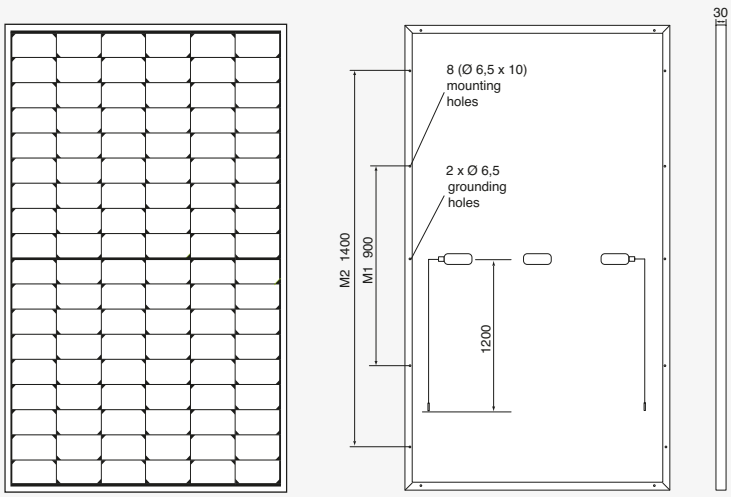

Fig. principle sketch

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 Uoc 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 Uoc	-0.28 %/K
Current Isc	0.045 %/K
Output Pmpp	-0.35 %/K

Low-light performance (Example for AC-400MG/108V)

I-U characteristic curve	Current Ipp	Voltage Upp
200 W/m²	2.62 A	30.03 V
400 W/m²	5.29 A	30.37 V
600 W/m²	7.90 A	30.61 V
800 W/m²	10.45 A	30.87 V
1000 W/m²	12.83 A	31.20 V

Packaging

Module pieces per palle	35 Stck.
Module pieces per HC-container	910 Stck.

Technical data are subject to change without prior notice, errors excepted. The measurement tolerances are +/-3%. Please be aware: All technical data provided in our data sheets are property of Axitec Energy GmbH & Co. KG and intended for information purposes for our customers only. We cannot accept any guarantee of completeness or accuracy. These data are prohibited for any kind of commercial use.