

AXIprotect XXL HC MB

390 - 400 Wp

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

The advantages:









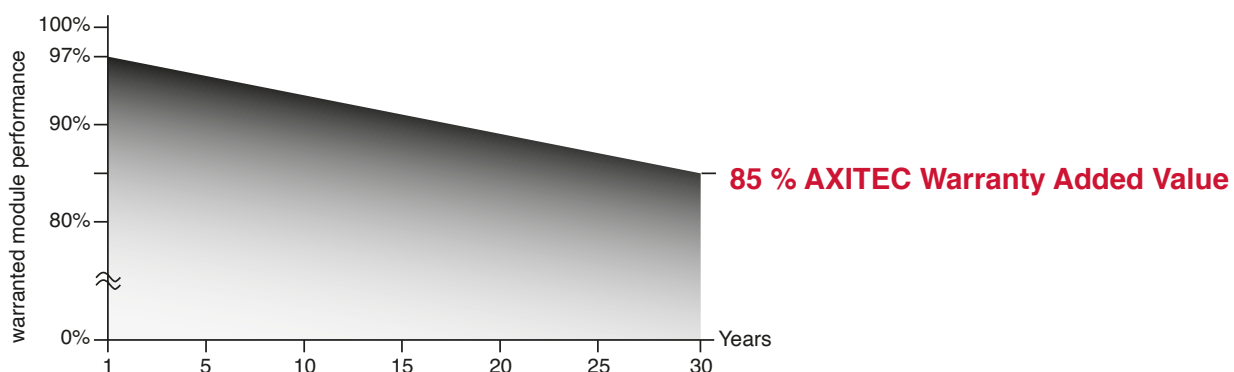
- 
15 Years
15 years Manufacturer's warranty
- 
HC
High module performance through Half-Cut-technology and selected materials
- 
PID less
PID reduced trough glas/glas-Technologie
- 
+ Wp
Guaranteed positive power tolerance from 0-5 Wp by individual measurement
- 
100%
100% visual electroluminescence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



Fig. similar 144MGEN221025A

Exclusive linear AXITEC high performance guarantee!



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 P _{mpp}	Nominal voltage U _{mpp}	Nominal current I _{mpp}	Short circuit current I _{sc}	Open circuit voltage U _{oc}	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 mm ²
Plug-in system	Plug/socket IP68, Stäubli EVO2 / EVO2 pluggable

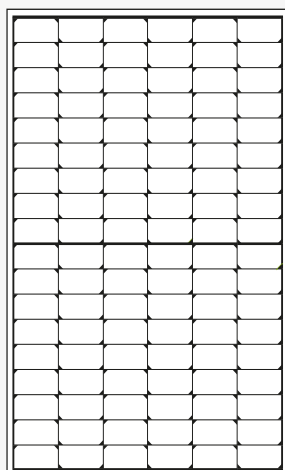
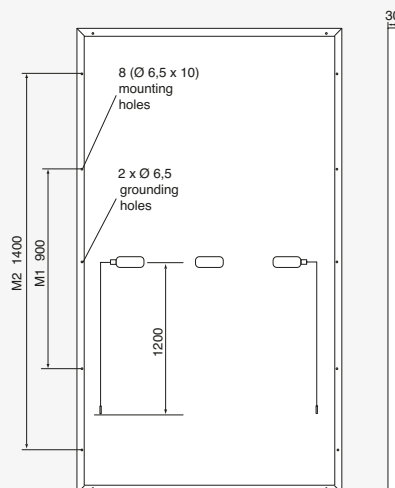


Fig. principle sketch



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_{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 _{mpp}	-0.35 %/K

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

I-U characteristic curve	Current I _{pp}	Voltage U _{pp}
200 W/m ²	2.62 A	30.03 V
400 W/m ²	5.29 A	30.37 V
600 W/m ²	7.90 A	30.61 V
800 W/m ²	10.45 A	30.87 V
1000 W/m ²	12.83 A	31.20 V

Packaging

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