



390 - 405 Wp

AXITEC
high quality german solar brand

AXIworldblackpremium XXL HC

High performance solar module
108 halfcell, monocrystalline

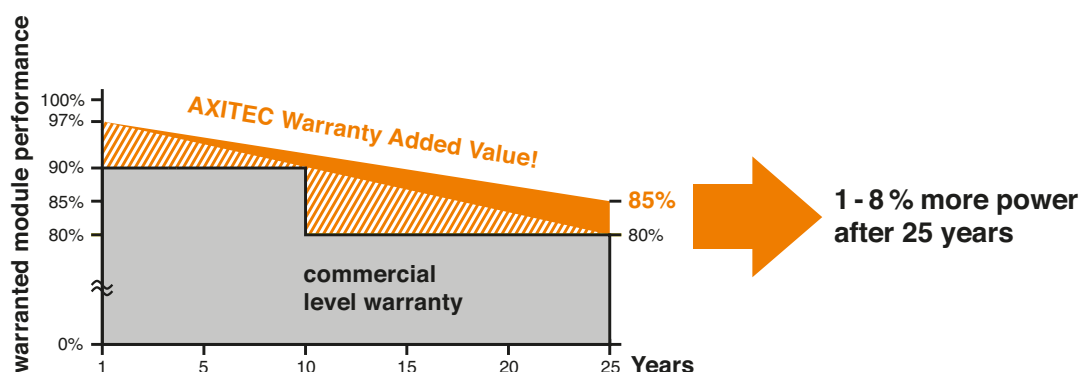
The advantages:

- 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
- IP 68** High quality junction box and connector systems



Exclusive linear AXITEC high performance guarantee!

- 15 years manufacturer's guarantee on 90% of the nominal performance
- 25 years manufacturer's guarantee on 85% of the nominal performance





AXIworldblackpremium XXL HC 390 - 405 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-390MH/108V	390 Wp	30.80 V	12.67 A	13.56 A	36.70 V	19.95 %
AC-395MH/108V	395 Wp	31.00 V	12.75 A	13.65 A	36.90 V	20.25 %
AC-400MH/108V	400 Wp	31.20 V	12.83 A	13.73 A	37.10 V	20.50 %
AC-405MH/108V	405 Wp	31.40 V	12.90 A	13.81 A	37.30 V	20.76 %

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

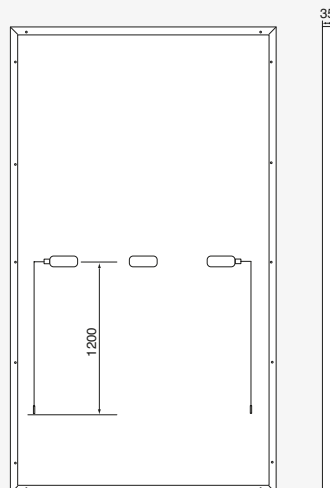
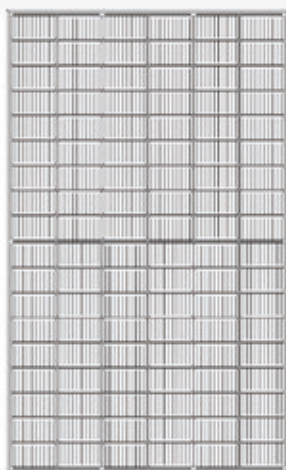
L x W x H	1722 x 1133 x 35 mm
Weight	21.0 kg with frame

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 EVO2



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-405MH/108V)

I-U characteristic curve	Current I _{pp}	Voltage U _{pp}
200 W/m ²	2.64 A	30.22 V
400 W/m ²	5.32 A	30.57 V
600 W/m ²	7.95 A	30.81 V
800 W/m ²	10.51 A	31.07 V
1000 W/m ²	12.90 A	31.40 V