

AXIblackpremium XXL HC 400 - 410 Wp

High performance solar module
108 halfcell, monocrystalline

The advantages:








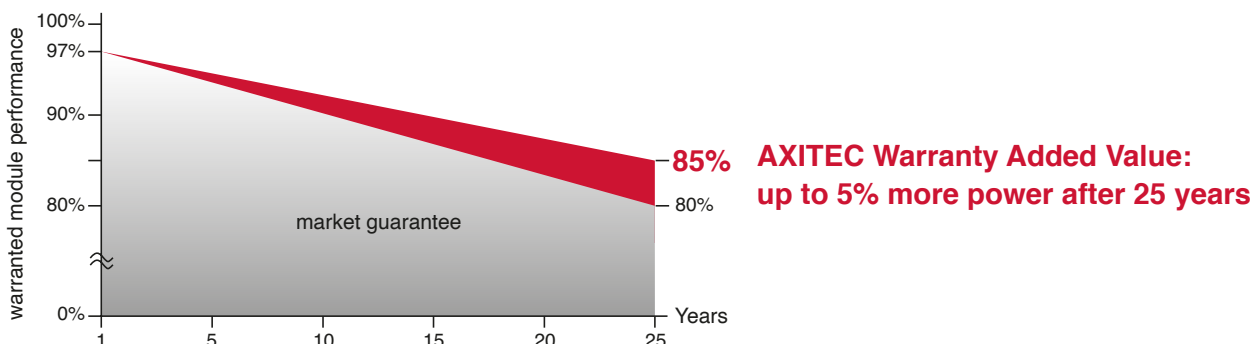
-  15 years Manufacturer's warranty
-  High module performance through Half-Cut-technology and selected materials
-  Guaranteed positive power tolerance from 0-5 Wp by individual measurement
-  100% visual electroluminescence inspection in production
-  High stability due to innovative frame design
-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



Fig. similar 08MHEN221025A

Exclusive linear AXITEC high performance guarantee!



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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-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 %

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 ²
Plug-in system	Plug/socket IP68, Stäubli EVO2 / EVO2 pluggable

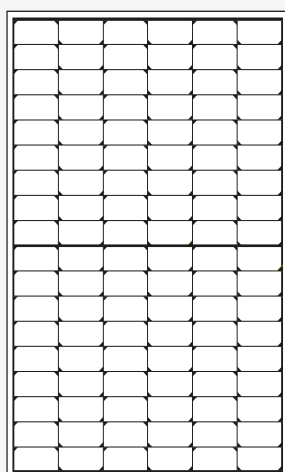
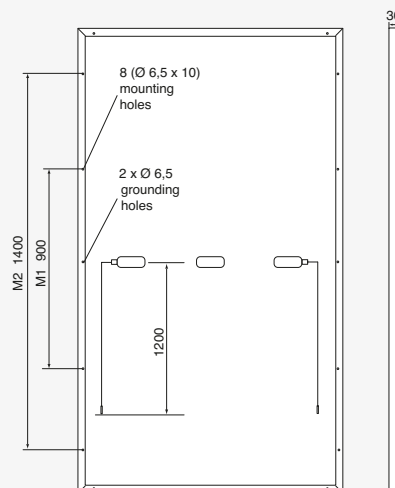


Fig. principle sketch



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
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(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-410MH/108V)

I-U characteristic curve	Current I _{pp}	Voltage U _{pp}
200 W/m ²	2.65 A	30.41 V
400 W/m ²	5.35 A	30.76 V
600 W/m ²	8.00 A	31.00 V
800 W/m ²	10.57 A	31.27 V
1000 W/m ²	12.98 A	31.60 V

Packaging

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

