



390 - 410 Wp

AXITEC
high quality german solar brand

AXIpremium XXL HC

High performance solar module
108 halfcell, monocrystalline

The advantages:

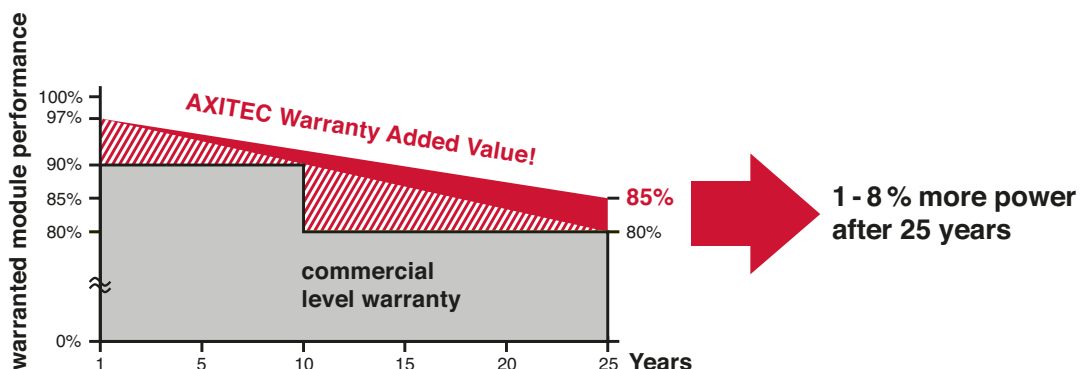
- 15** Years 15 years Manufacturer's warranty
- HC** High module performance through Half-Cut-technology and selected materials
- Wp** Guaranteed positive power tolerance from 0-5 Wp by individual measurement
- 100%** 100% visual electroluminescence inspection in production
- Frame** High stability due to innovative frame design
- IP 68** High quality junction box and connector systems



Fig. similar 108MHEN210225A

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



AXIpremium XXL HC 390 - 410 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	20.20 %
AC-400MH/108V	400 Wp	31.20 V	12.83 A	13.73 A	37.10 V	20.46 %
AC-405MH/108V	405 Wp	31.40 V	12.90 A	13.81 A	37.30 V	20.72 %
AC-410MH/108V	410 Wp	31.60 V	12.98 A	13.88 A	37.50 V	20.97 %

Design

Frontside	3.2 mm hardened, low-reflection white glass
Cells	108 monocrystalline high efficiency cells
Backside	Composite film
Frame	35 mm silver aluminium frame

Mechanical data

L x W x H	1724 x 1134 x 35 mm
Weight	22.0 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 / EVO2 pluggable

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

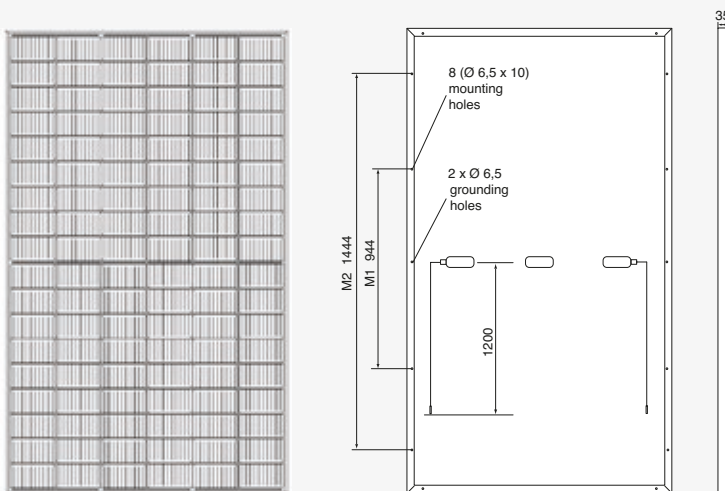
Voltage U _{oc}	-0.28 %/K
Current I _{sc}	0.045 %/K
Output P _{mp}	-0.35 %/K

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	30
Module pieces per HC-container	780



All dimensions in mm



430 - 455 Wp

AXITEC
high quality german solar brand

AXIpremium XL HC

High performance solar module
144 halfcell, monocrystalline

The advantages:

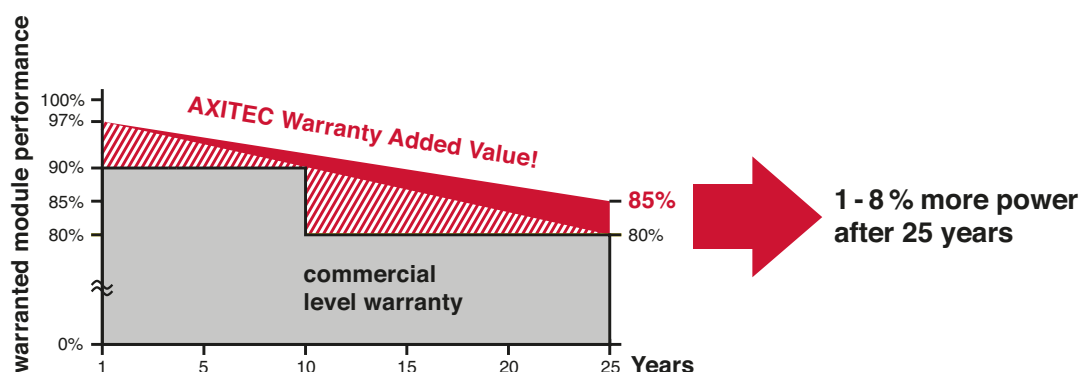
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- HC** High module performance through Half-Cut-technology and selected materials
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- Frame** High stability due to innovative frame design
- IP 68** High quality junction box and connector systems



144MHEN210209A
Fig. similar

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



AXIpremium XL HC 430 - 455 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-430MH/144V	430 Wp	40.59 V	10.60 A	11.21 A	49.22 V	19.78 %
AC-435MH/144V	435 Wp	40.79 V	10.67 A	11.28 A	49.42 V	20.01 %
AC-440MH/144V	440 Wp	40.99 V	10.74 A	11.35 A	49.62 V	20.24 %
AC-445MH/144V	445 Wp	41.19 V	10.81 A	11.41 A	49.86 V	20.47 %
AC-450MH/144V	450 Wp	41.39 V	10.88 A	11.48 A	50.10 V	20.70 %
AC-455MH/144V	455 Wp	41.61 V	10.94 A	11.54 A	50.34 V	20.93 %

Design

Frontside	3.2 mm hardened, low-reflection white glass
Cells	144 monocrystalline high efficiency cells
Backside	Composite film
Frame	35 mm silver aluminium frame

Mechanical data

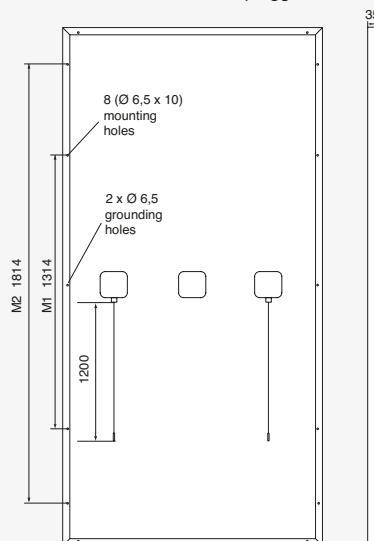
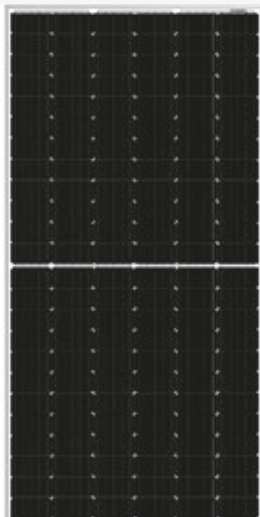
L x W x H	2094 x 1038 x 35 mm
Weight	23.8 kg with frame

Mechanical load

Design load (pressure/suction)	1600 Pa / 1600 Pa
Test load (pressure/suction)	2400 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



All dimensions in mm

Limit values

System voltage	1500 VDC
NOCT (nominal operating cell temperature)*	45°C +/-2K
Reverse current feed IR	20.0 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}	-0.27 %/K
Current I _{sc}	0.048 %/K
Output P _{mpp}	-0.35 %/K

Low-light performance (Example for AC-455MH/144V)

I-U characteristic curve	Current I _{pp}	Voltage U _{pp}
200 W/m ²	2,24 A	40.05 V
400 W/m ²	4,51 A	40.51 V
600 W/m ²	6,74 A	40.82 V
800 W/m ²	8,91 A	41.17 V
1000 W/m ²	10,94 A	41.61 V

Packaging

Module pieces per pallet	30
Module pieces per HC-container	660