430 - 460 Wp

AXIpremium XL HC

High performance solar module
144 halfcell, monocrystalline

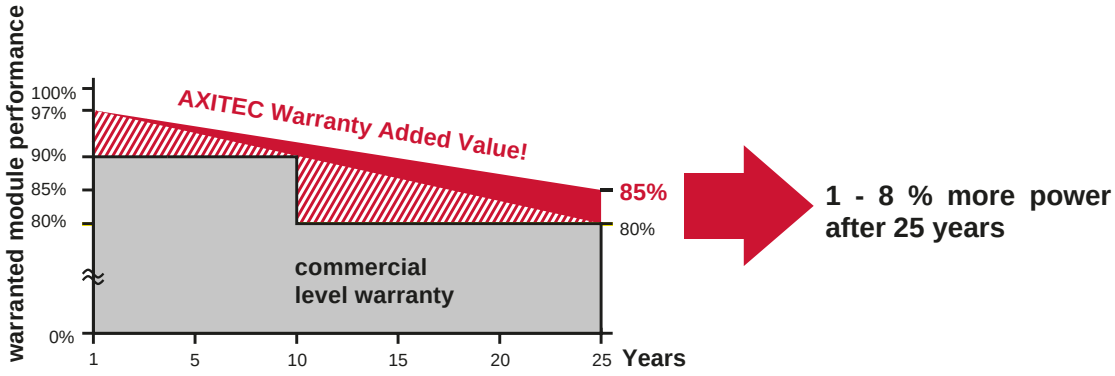
The advantages:

- 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

Fig. similar 144MHEN220228A

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



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AXIpremium XL HC 430 - 460 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 Nominal voltage Nominal current Short circuit current Open circuit voltage Module conversion Pmpp Umpp Impp Isc Uoc 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 %
AC-460MH/144V	460 Wp 42.00 V 10.96 A 11.65 A 50.40 V 21.16 %

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

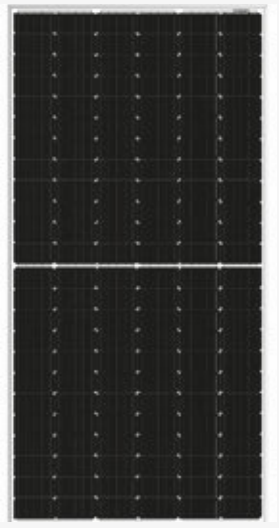
Design load (pressure/suction) 3600 Pa / 1600 Pa *

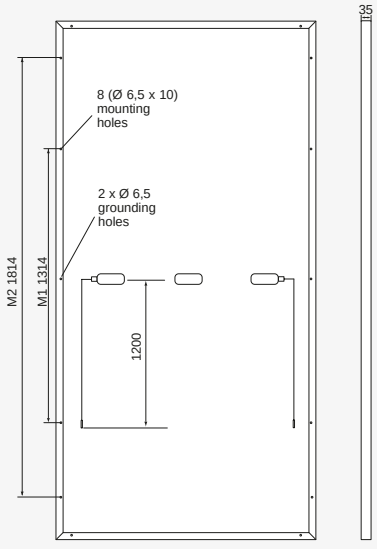
Test load (pressure/suction) 5400 Pa / 2400 Pa *

* depending on the type of installation according to the installation instructions

Power connection

Socket	Protection Class IP68
Wire	approx. 1.2 m, 4 mm2
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 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	-0.27 %/K
Current Isc	0.048 %/K
Output Pmpp	-0.35 %/K

Low-light performance (Example for AC-460MH/144V)

I-U characteristic curve Current Ipp Voltage Upp

200 W/m2 2.24 A 40.42 V

400 W/m2 4.52 A 40.89 V

600 W/m2 6.75 A 41.21 V

800 W/m2 8.93 A 41.56 V

1000 W/m2 10.96 A 42.00 V

Packaging

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

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.