

430 - 450 Wp

high quality german solar brand

AXIpremium XL HC

High performance solar module 144 halfcell, monocrystalline



German-American-Engineering

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

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





(PHOTOVOLTAIC MODULE OVER 600 VOLTS) 5JK4 E487509 144MHUSA210203A



AXIpremium XL HC 430 - 450 Wp

Electrical data (at standard conditions (STC) irradiance 1000 watt/m², spectrum AM 1.5 at a cell temperature of 25°C)

Туре	Nominal output Pmpp	Nominal voltage Umpp	Nominal current	Short circuit current Isc	Open circuit voltage Uoc	Module conversion efficiency
AC-430MH/144V	430 Wp	40.60 V	10.60 A	11.19 A	49.20 V	19.78 %
AC-435MH/144V	435 Wp	40.80 V	10.67 A	11.26 A	49.40 V	20.01 %
AC-440MH/144V	440 Wp	41.00 V	10.74 A	11.33 A	49.60 V	20.24 %
AC-445MH/144V	445 Wp	41.20 V	10.81 A	11.40 A	49.80 V	20.47 %
AC-450MH/144V	450 Wp	41.40 V	10.88 A	11.47 A	50.00 V	20.70 %

Design

Frontside 0.13 inch (3.2 mm) hardened, low-reflection white glass

Cells 144 monocrystalline high efficiency cells

Backside Composite film

Frame 1.38 inch (35 mm) silver aluminium frame

Mechanical data

L x W x H 82.44 x 40.87 x 1.38 inch (2094 x 1038 x 35 mm)

Weight 52.47 lbs (23.8 kg) with frame

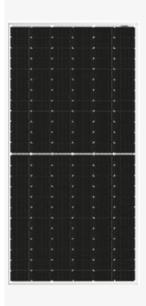
Mechanical load

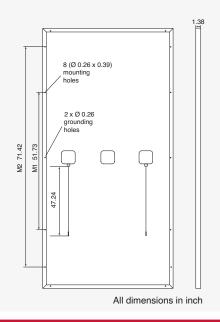
Design load (pressure/suction) 33.3 PSF / 33.3 PSF Test load (pressure/suction) 50 PSF / 50 PSF

Power connection

Socket Protection Class IP68
Wire 47.24 inch, AWG 11

Plug-in system Plug/socket IP68, Stäubli EVO2





Limit values

System voltage 1500 VDC (UL) 1000 VDC (IEC)
Module Fire Performance TYPE 1 (UL 1703)

or CLASS C (IEC 61730)

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 Vo 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-450MH/144V)

I-U characteristic curve	Current Ipp	Voltage Upp
200 W/m ²	2.22 A	39.84 V
400 W/m ²	4.49 A	40.30 V
600 W/m ²	6.70 A	40.62 V
800 W/m ²	8.86 A	40.97 V
1000 W/m ²	10.88 A	41.40 V

Packaging

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