



395 - 410 Wp

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**AXITEC**<sup>®</sup>  
high quality german solar brand

## AXIpremium X HC

144 cell full-square monocrystalline  
High performance solar module

German engineered – made for America

**15**  
Years 15 years manufacturer's warranty  
Five more years than industry standard

**HC** Highest module performance through  
Half-Cut-technology and tested materials

**+**  
Wp Positive power tolerance from 0-5 Wp  
Higher guaranteed yield

**↓**  
50 PSF Snow load of up to 50 psf  
Stable module for a long life in extreme conditions

**100%** 100 % electroluminescence inspection  
Micro crack and hotspot free modules

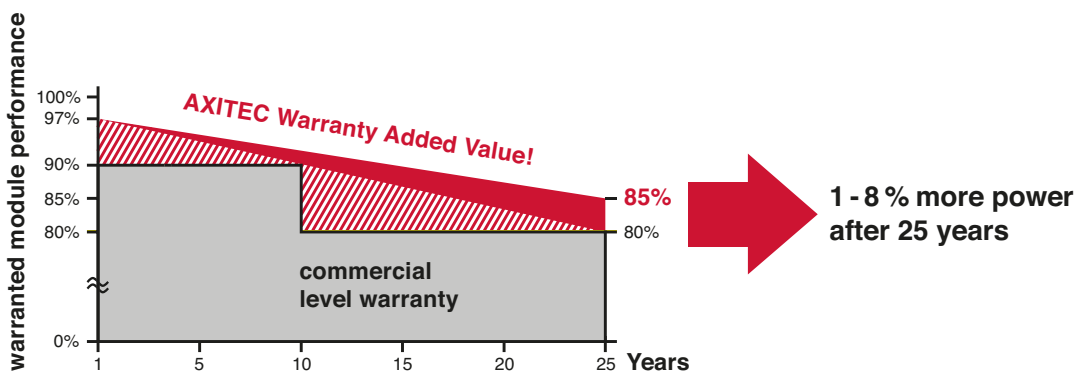
**IP 68** High quality junction box and connector  
system for a longer life time



Fig. similar 144MHUSA200415A

### 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

# AXIpremium X HC 395 - 410 Wp

**Electrical data** (at standard conditions (STC) irradiance 1000 watt/m<sup>2</sup>, spectrum AM 1.5 at a cell temperature of 25°C)

Type	Nominal output P <sub>mpp</sub>	Nominal voltage U <sub>mpp</sub>	Nominal current I <sub>mpp</sub>	Short circuit current I <sub>sc</sub>	Open circuit voltage U <sub>oc</sub>	Module conversion efficiency
AC-395MH/144S	395 Wp	40.55 V	9.74 A	10.59 A	48.37 V	19.63 %
AC-400MH/144S	400 Wp	40.77 V	9.81 A	10.64 A	48.55 V	19.88 %
AC-405MH/144S	405 Wp	40.95 V	9.89 A	10.71 A	48.73 V	20.13 %
AC-410MH/144S	410 Wp	41.12 V	9.97 A	10.79 A	48.91 V	20.38 %

## Design

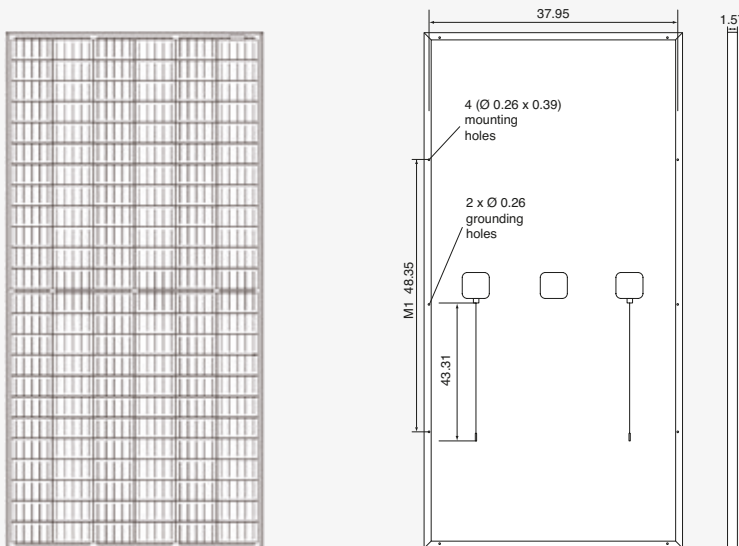
Frontside	0.13 inch (3.2 mm) hardened, low-reflection white glass
Cells	144 monocrystalline high efficiency cells
Backside	Composite film
Frame	1.57 inch (40 mm) silver aluminium frame

## Mechanical data

L x W x H	79.06 x 39.45 x 1.57 inch (2008 x 1002 x 40 mm)
Weight	51.81 lbs (23.5 kg) with frame

## Power connection

Socket	Protection Class IP68
Wire	43.3 inch, AWG 11
Plug-in system	Plug/socket IP68, Stäubli MC4



All dimensions in inch

## Limit values

System voltage	1000 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
Max. load-carrying capacity	50 PSF
Reverse current feed IR	20.0 A
Permissible operating temperature	-40°C to 85°C / -40F to 185F

(No external voltages greater than V<sub>o</sub> may be applied to the module)

\* NOCT, irradiance 800 W/m<sup>2</sup>; AM 1.5; wind speed 1 m/s; Temperature 20°C

## Temperature coefficients

Voltage U <sub>oc</sub>	-0.29 %/K
Current I <sub>sc</sub>	0.04 %/K
Output P <sub>mpp</sub>	-0.39 %/K

## Low-light performance (Example for AC-400M/144S)

I-U characteristic curve	Current I <sub>pp</sub>	Voltage U <sub>pp</sub>
200 W/m <sup>2</sup>	1.96 A	38.53 V
400 W/m <sup>2</sup>	3.90 A	39.23 V
600 W/m <sup>2</sup>	5.85 A	40.15 V
800 W/m <sup>2</sup>	7.84 A	40.43 V
1000 W/m <sup>2</sup>	9.81 A	40.77 V

## Packaging

Module pieces per pallet	25
Module pieces per HC-container	550