



370 - 385 Wp

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

## AXIpremium HC

144 cell monocrystalline  
High performance solar module

German engineered – made for America

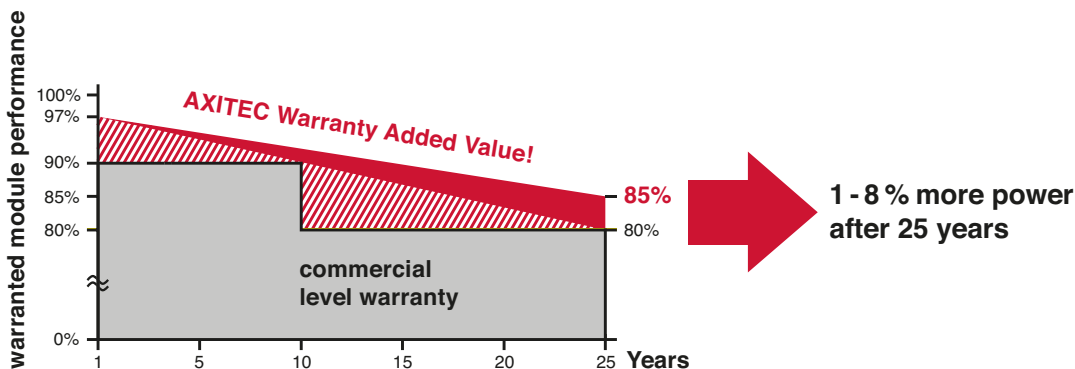
- 15**  
Years 15 years manufacturer's warranty  
Five more years than industry standard
- HC** Highest module performance through  
Half-Cut-technology and tested materials
- +**  
Wp Positive power tolerance from 0-5 Wp  
Higher guaranteed yield
- ↓**  
50 PSF Snow load of up to 50 psf  
Stable module 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 144MHUSA200316A

### 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 HC 370 - 385 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-370MH/144S	370 Wp	39.60 V	9.35 A	9.85 A	47.40 V	18.65 %
AC-375MH/144S	375 Wp	39.81 V	9.43 A	9.93 A	47.61 V	18.90 %
AC-380MH/144S	380 Wp	40.02 V	9.50 A	10.01 A	47.80 V	19.15 %
AC-385MH/144S	385 Wp	40.21 V	9.58 A	10.08 A	48.00 V	19.41 %

### Design

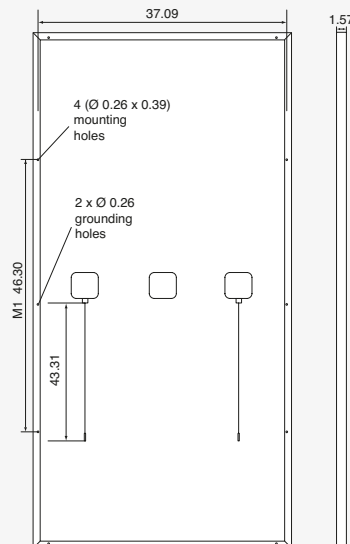
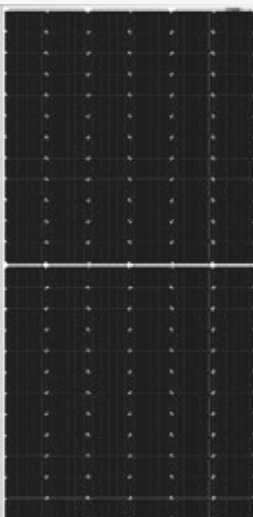
Frontside	0.13 inch (3.2 mm) hardened, low-reflection white glass
Cells	144 monocrystalline high efficiency cells
Backside	Composite film
Frame	1.57 inch (40 mm) silver aluminium frame

### Mechanical data

L x W x H	78.74 x 39.06 x 1.57 inch (2000 x 992 x 40 mm)
Weight	49.82 lbs (22.6 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>mp</sub>	-0.39 %/K

### Low-light performance (Example for AC-370M/144S)

I-U characteristic curve	Current I <sub>pp</sub>	Voltage U <sub>pp</sub>
200 W/m <sup>2</sup>	1.86 A	37.85 V
400 W/m <sup>2</sup>	3.80 A	38.20 V
600 W/m <sup>2</sup>	5.69 A	38.45 V
800 W/m <sup>2</sup>	7.61 A	38.70 V
1000 W/m <sup>2</sup>	9.35 A	39.60 V

### Packaging

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