



390 - 410 Wp

www.axitecsolar.us

AXITEC[®]
high quality german solar brand

AXIpremium X HC

144 cell full-square monocrystalline
High performance solar module

German engineered – made for America

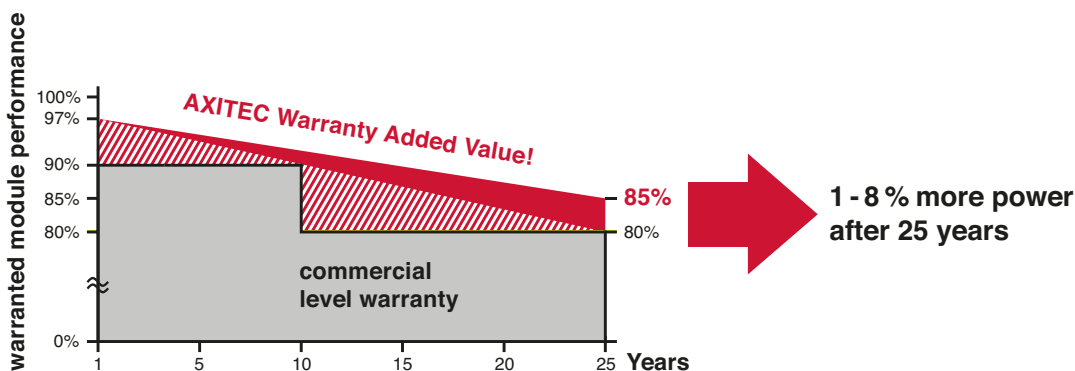
- 15**
Years 15 years manufacturer's warranty
Five more years than industry standard
- HC** Highest module performance through
Half-Cut-technology and tested materials
- Wp** Positive power tolerance from 0-5 Wp
Higher guaranteed yield
- 50 PSF** Snow load of up to 50 psf
Stable module for a long life 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 144MHUSA191104A

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 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/144S	390 Wp	40.50 V	9.64 A	10.21 A	48.30 V	19.38 %
AC-395MH/144S	395 Wp	40.80 V	9.69 A	10.33 A	48.52 V	19.63 %
AC-400MH/144S	400 Wp	41.12 V	9.74 A	10.46 A	48.81 V	19.88 %
AC-405MH/144S	405 Wp	41.43 V	9.79 A	10.59 A	49.50 V	20.13 %
AC-410MH/144S	410 Wp	41.75 V	9.83 A	10.72 A	49.79 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	78.06 x 39.45 x 1.57 inch (2008 x 1002 x 40 mm)
Weight	50.71 lbs (23.0 kg) with frame

Power connection

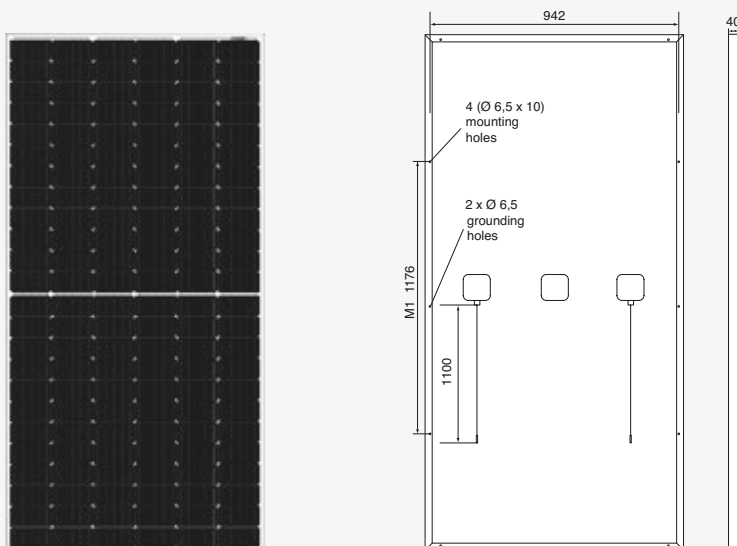
Socket	Protection Class IP68
Wire	43.3 inch, AWG 11
Plug-in system	Plug/socket IP68, MC4

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_o may be applied to the module)

* NOCT, irradiance 800 W/m²; AM 1.5; wind speed 1 m/s; Temperature 20°C



All dimensions in inch

Temperature coefficients

Voltage U _{oc}	-0.29 %/K
Current I _{sc}	0.04 %/K
Output P _{mpp}	-0.39 %/K

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

I-U characteristic curve	Current I _{pp}	Voltage U _{pp}
200 W/m ²	1.98 A	37.40 V
400 W/m ²	4.27 A	38.04 V
600 W/m ²	6.12 A	40.88 V
800 W/m ²	7.694 A	41.06 V
1000 W/m ²	9.74 A	41.12 V

Packaging

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