



**390 - 410 Wp**

**AXITEC**  
high quality german solar brand

## AXIworldpremium X HC

144 halfcell full-square monocrystalline  
High performance solar module

The advantages:

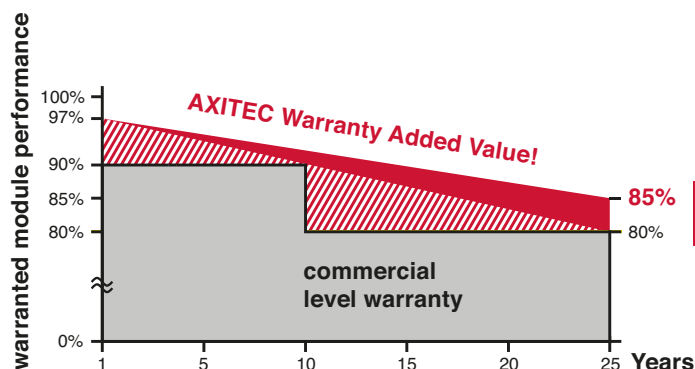
- 15** Years 15 years manufacturer's warranty
- HC** Highest module performance through Half-Cut-technology and tested materials
- Wp** Guaranteed positive power tolerance from 0-5 Wp by individual measurement
- 2.400 Pa** Maximum 2400 Pa snow load
- 100%** 100% electroluminescence inspection
- IP 67** High quality junction box and connector systems

**25**  
YEARS  
**85%**



**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



**1 - 8% more power after 25 years**



## AXIworldpremium X HC 390 - 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-390MH/144S	390 Wp	41.10 V	9.49 A	10.12 A	49.30 V	19.38 %
AC-395MH/144S	395 Wp	41.40 V	9.55 A	10.23 A	49.50 V	19.63 %
AC-400MH/144S	400 Wp	41.70 V	9.60 A	10.36 A	49.80 V	19.88 %
AC-405MH/144S	405 Wp	42.00 V	9.65 A	10.48 A	50.10 V	20.13 %
AC-410MH/144S	410 Wp	42.30 V	9.69 A	10.60 A	50.40 V	20.38 %

### Design

Frontside	3,2 mm hardened, low-reflection white glass
Cells	144 monocrystalline high efficiency cells
Backside	Composite film
Frame	40 mm silver aluminium frame

### Mechanical data

L x W x H	2008 x 1002 x 40 mm
Weight	22,5 kg with frame

### Power connection

Socket	Protection Class IP67
Wire	approx. 1,2 m, 4 mm <sup>2</sup>
Plug-in system	Plug/socket IP67

### Limit values

System voltage	1500 VDC
NOCT (nominal operating cell temperature)*	45°C +/-2K
Max. load-carrying capacity	2400 N/m <sup>2</sup>
Reverse current feed IR	20,0 A
Permissible operating temperature	-40°C to 85°C / -40F to 185F

(No external voltages greater than U<sub>oc</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

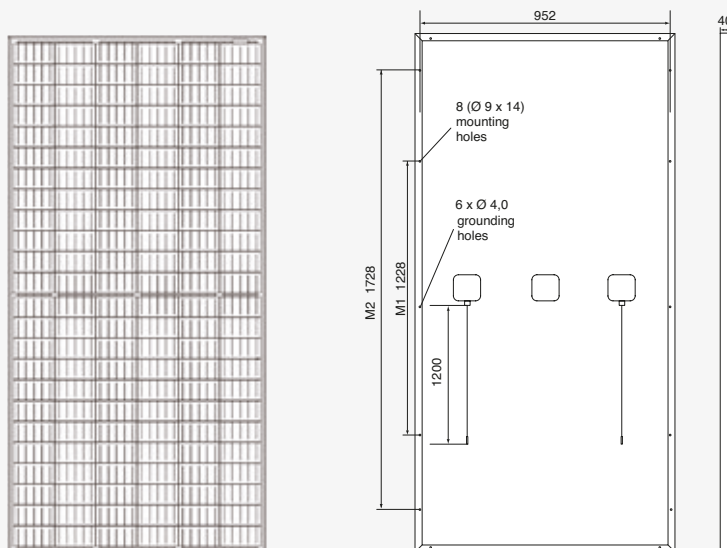
Voltage U <sub>oc</sub>	-0,28 %/K
Current I <sub>sc</sub>	0,048 %/K
Output P <sub>mpp</sub>	-0,36 %/K

### Low-light performance (Example for AC-410MH/144S)

I-U characteristic curve	Current I <sub>pp</sub>	Voltage U <sub>pp</sub>
200 W/m <sup>2</sup>	1,98 A	40,71 V
400 W/m <sup>2</sup>	4,00 A	41,18 V
600 W/m <sup>2</sup>	5,97 A	41,50 V
800 W/m <sup>2</sup>	7,89 A	41,86 V
1000 W/m <sup>2</sup>	9,69 A	42,30 V

### Packaging

Module pieces per pallet	27
Module pieces per HC-container	594



All dimensions in mm