



390 - 410 Wp

AXITEC
high quality german solar brand

AXIpremium X HC

High performance solar module
144 halfcell, full-square, monocrystalline

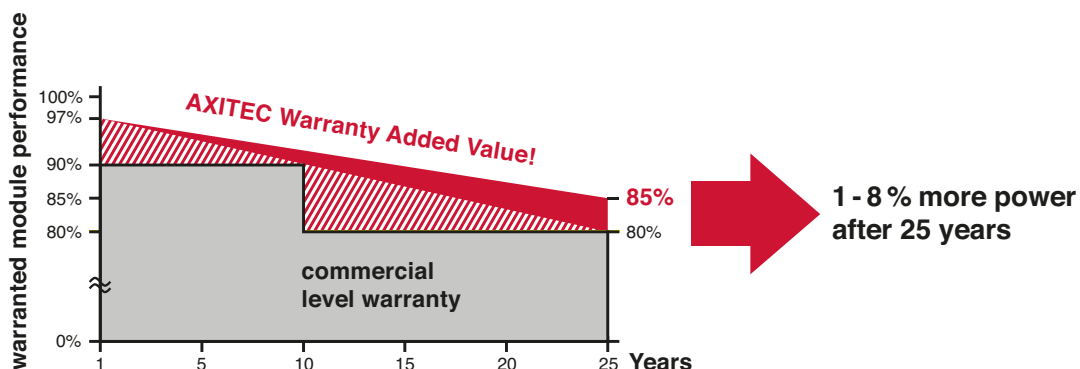
The advantages:

- 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



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



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	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

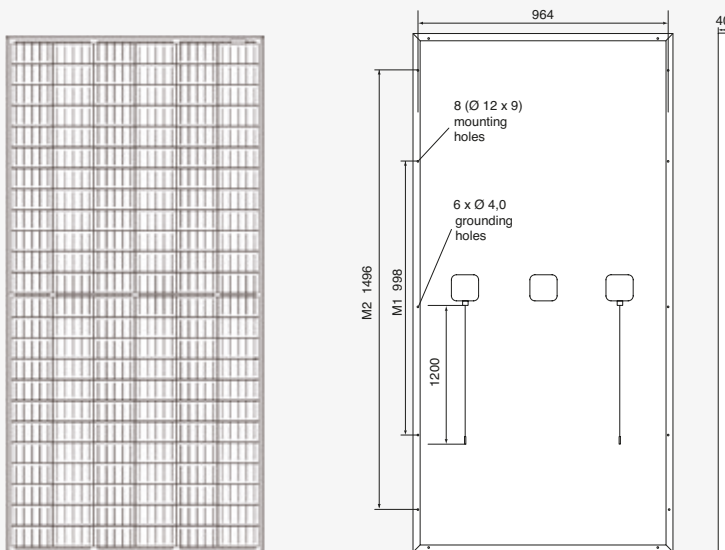
Frontside	3,2 mm hardened, low-reflection white glass
Cells	144 monocrystalline high efficiency cells
Backside	Composite film
Frame	40 mm silver aluminium frame

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 ²
Plug-in system	Plug/socket IP67



All dimensions in mm

Limit values

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

(No external voltages greater than U_{oc} 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 U _{oc}	-0,28 %/K
Current I _{sc}	0,048 %/K
Output P _{mpp}	-0,36 %/K

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

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

Packaging

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