



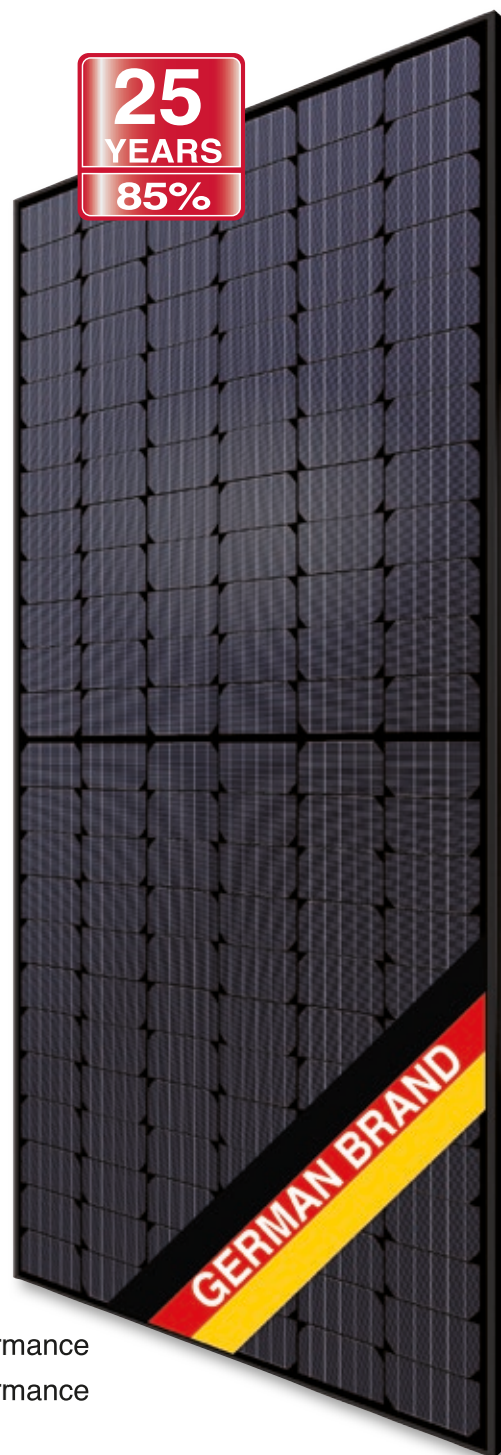
410 - 440 Wp

AXIblackpremium XL HC

144 halfcell monocrystalline
High performance solar module

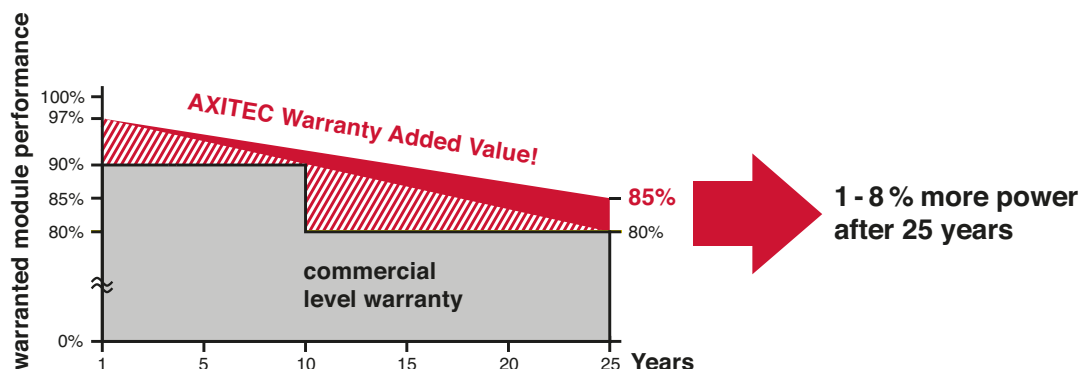
The advantages:

- 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 68** 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



AXIblackpremium XL HC 410 - 440 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-410MH/144V	410 Wp	39,80 V	10,31 A	10,90 A	48,40 V	18,43 %
AC-415MH/144V	415 Wp	40,00 V	10,38 A	10,98 A	48,60 V	18,65 %
AC-420MH/144V	420 Wp	40,20 V	10,45 A	11,04 A	48,80 V	18,88 %
AC-425MH/144V	425 Wp	40,39 V	10,53 A	11,13 A	49,02 V	19,10 %
AC-430MH/144V	430 Wp	40,59 V	10,60 A	11,21 A	49,22 V	19,33 %
AC-435MH/144V	435 Wp	40,79 V	10,67 A	11,28 A	49,42 V	19,55 %
AC-440MH/144V	440 Wp	40,99 V	10,74 A	11,35 A	49,62 V	19,78 %

Design

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

Mechanical data

L x W x H	2115 x 1052 x 40 mm
Weight	24,0 kg with frame

Power connection

Socket	Protection Class IP68
Wire	approx. 1,2 m, 4 mm ²
Plug-in system	Plug/socket IP68, Stäubli MC4 / MC4 pluggable

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}	0,04 %/K
Output P _{mpp}	-0,36 %/K

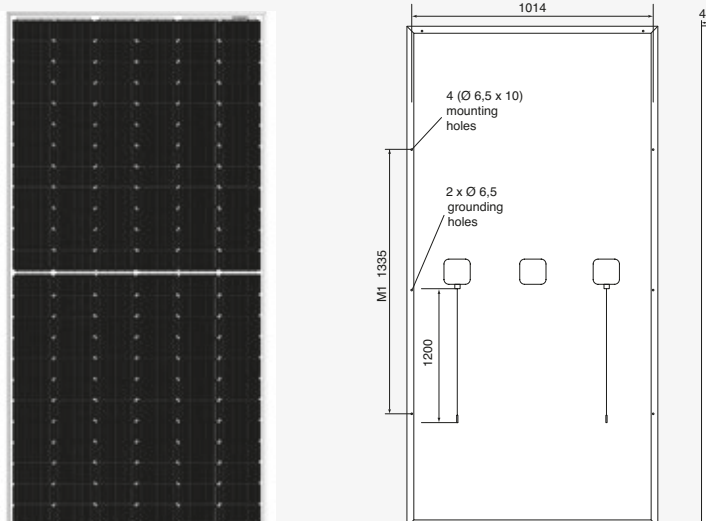
Low-light performance

 (Example for AC-430MH/144V)

I-U characteristic curve	Current I _{pp}	Voltage U _{pp}
200 W/m ²	2,21 A	38,36 V
400 W/m ²	4,29 A	39,42 V
600 W/m ²	6,43 A	39,95 V
800 W/m ²	8,57 A	40,13 V
1000 W/m ²	10,60 A	40,59 V

Packaging

Module pieces per pallet	26
Module pieces per HC-container	520



All dimensions in mm