



430 - 455 Wp

AXITEC
high quality german solar brand

AXIpremium XL HC

144 halfcell monocrystalline
High performance solar module

The advantages:



15 years manufacturer's warranty



Highest module performance through
Half-Cut-technology and tested materials



Guaranteed positive power tolerance
from 0-5 Wp by individual measurement



Maximum 2400 Pa snow load



100 % electroluminescence inspection

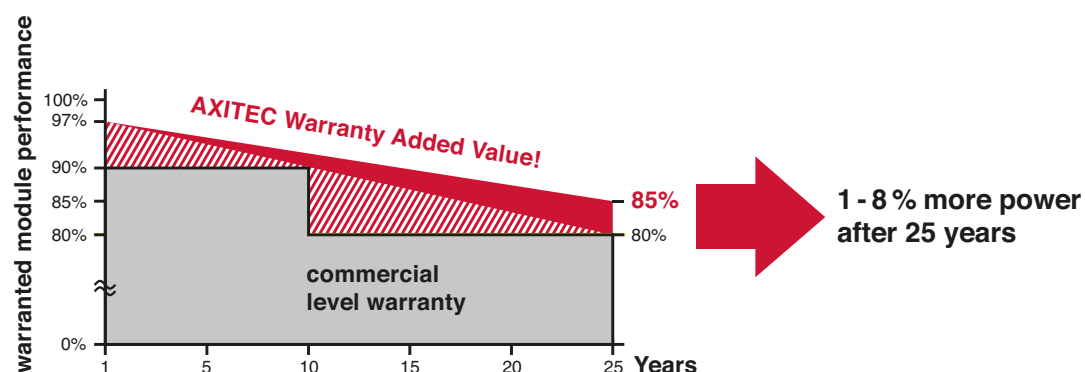


High quality junction box
and connector systems



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 XL HC 430 - 455 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-430MH/144S	430 Wp	40,59 V	10,60 A	11,21 A	49,22 V	19,33 %
AC-435MH/144S	435 Wp	40,79 V	10,67 A	11,28 A	49,42 V	19,55 %
AC-440MH/144S	440 Wp	40,99 V	10,74 A	11,35 A	49,62 V	19,78 %
AC-445MH/144S	445 Wp	41,19 V	10,81 A	11,41 A	49,86 V	20,00 %
AC-450MH/144S	450 Wp	41,39 V	10,88 A	11,48 A	50,10 V	20,22 %
AC-455MH/144S	455 Wp	41,61 V	10,94 A	11,54 A	50,34 V	20,93 %

Design

Frontside	3,2 mm hardened, low-reflection white glass
Cells	144 monocrystalline high efficiency cells
Backside	Composite film
Frame	35 mm silver aluminium frame

Mechanical data

L x W x H	2094 x 1038 x 35 mm
Weight	23,8 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	1000 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

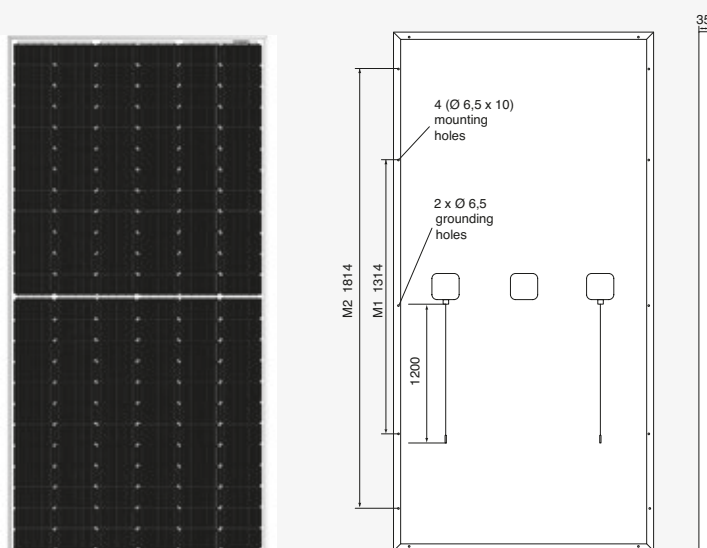
Voltage U _{oc}	-0,27 %/K
Current I _{sc}	0,048 %/K
Output P _{mpp}	-0,35 %/K

Low-light performance (Example for AC-455MH/144S)

I-U characteristic curve	Current I _{pp}	Voltage U _{pp}
200 W/m ²	2,24 A	40,05 V
400 W/m ²	4,51 A	40,51 V
600 W/m ²	6,74 A	40,82 V
800 W/m ²	8,91 A	41,17 V
1000 W/m ²	10,94 A	41,61 V

Packaging

Module pieces per pallet	30
Module pieces per HC-container	660



All dimensions in mm