



300 - 315 Wp

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AXITEC
high quality german solar brand

AXIworldblackpremium X

60 cell full-square monocrystalline
High performance solar module

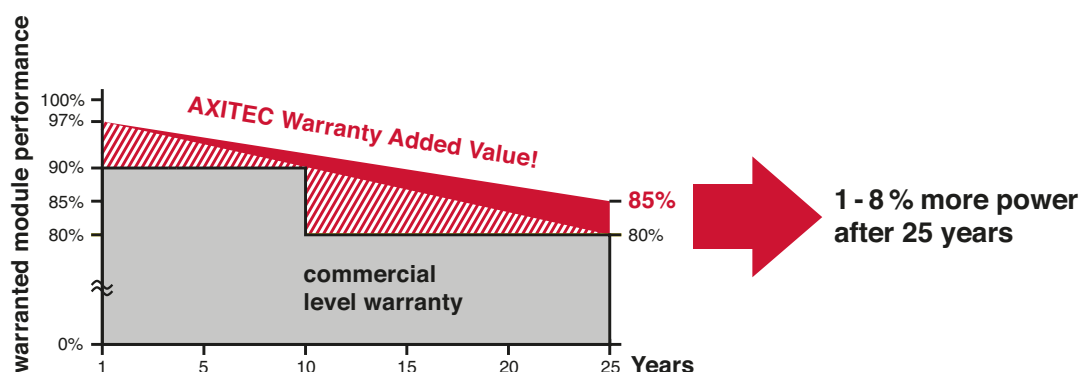
The advantages:

- 15**
Years 15 years manufacturer's warranty
- P-Max** Highest performance due to specifically selected technologies and materials
- + Wp** Guaranteed positive power tolerance from 0-5 Wp by individual measurement
- 5.400 Pa** Maximum 5400 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





AXIworldblackpremium X 300 - 315 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-300M/60S	300 Wp	32,37 V	9,27 A	9,74 A	39,27 V	17,98 %
AC-305M/60S	305 Wp	32,41 V	9,42 A	9,83 A	39,81 V	18,28 %
AC-310M/60S	310 Wp	32,51 V	9,54 A	9,94 A	39,90 V	18,58 %
AC-315M/60S	315 Wp	32,79 V	9,61 A	10,03 A	40,16 V	18,88 %

Design

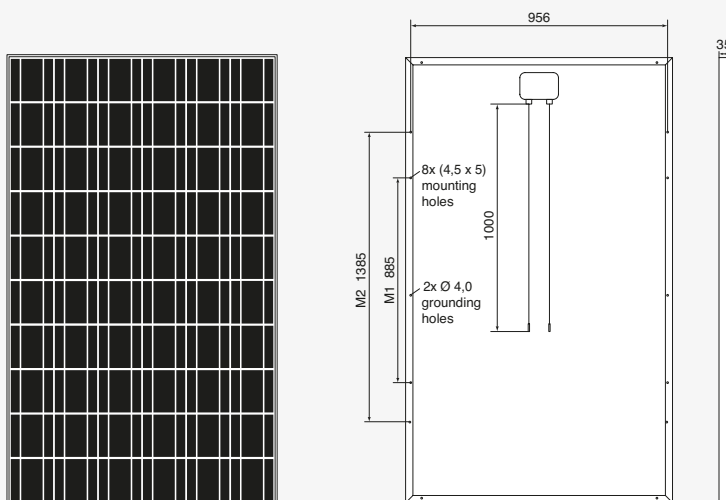
Frontside	3,2 mm hardened, low-reflection white glass
Cells	60 monocrystalline high efficiency cells 158,75 mm x 158,75 mm
Backside	Composite film
Frame	35 mm black aluminium frame

Mechanical data

L x W x H	1665 x 1002 x 35 mm
Weight	19,0 kg with frame

Power connection

Socket	Protection Class IP67
Wire	approx. 1,0 m, 4 mm ²
Plug-in system	Plug/socket IP67



All dimensions in mm

Limit values

System voltage	1000 VDC
NOCT (nominal operating cell temperature)*	45°C +/-2K
Max. load-carrying capacity	5400 N/m ²
Reverse current feed IR	15,0 A
Permissible operating temperature	-40°C to 85°C / -40°F to 185°F

(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}	-0,29 %/K
Current I _{sc}	0,04 %/K
Output P _{mpp}	-0,39 %/K

Low-light performance (Example for AC-300M/60S)

I-U characteristic curve	Current I _{pp}	Voltage U _{pp}
200 W/m ²	2,15 A	30,17 V
400 W/m ²	3,71 A	31,20 V
600 W/m ²	6,05 A	31,81 V
800 W/m ²	7,57 A	32,10 V
1000 W/m ²	9,27 A	32,37 V