



AC-290M/156-60S  
AC-295M/156-60S  
AC-300M/156-60S

www.axitecsolar.com

**AXITEC**  
high quality german solar brand

## AXIworldblackpremium

60 cell monocrystalline  
High performance photovoltaic module

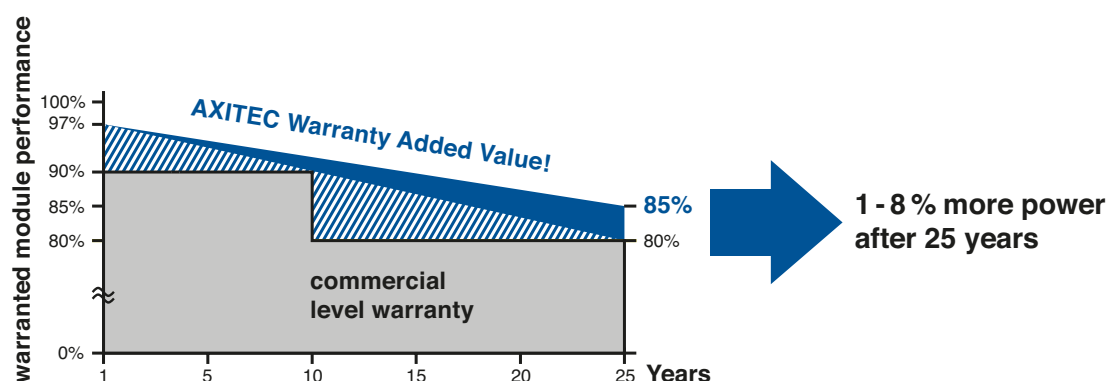
The advantages:

- 12** Years 12 years manufacturer's warranty
- P-Max** Highest performance due to specifically selected technologies and materials
- W<sub>p</sub>** 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



# AXIworld- blackpremium

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**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-290M/156-60S	290 Wp	31,71 V	9,16 A	9,70 A	39,70 V	17,90 %
AC-295M/156-60S	295 Wp	31,80 V	9,29 A	9,75 A	39,95 V	18,21 %
AC-300M/156-60S	300 Wp	32,16 V	9,34 A	9,82 A	40,08 V	18,51 %

## Design

Frontside	3,2 mm hardened, low-reflection white glass
Cells	60 monocrystalline high efficiency cells 156 mm x 156 mm (6")
Backside	Composite film
Frame	35 mm black anodized aluminium frame

## Mechanical data

L x W x H	1645 x 985 x 35 mm
Weight	18,0 kg with frame

## Power connection

Socket	Protection Class IP65 (3 bypass diodes)
Wire	approx. 0,9 m, 4 mm <sup>2</sup>
Plug-in system	Plug/socket IP67

## Limit values

System voltage	1000 VDC
NOCT (nominal operating cell temperature)*	45°C +/-2K
Max. load-carrying capacity	5400 N/m <sup>2</sup>
Reverse current feed IR	15,0 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

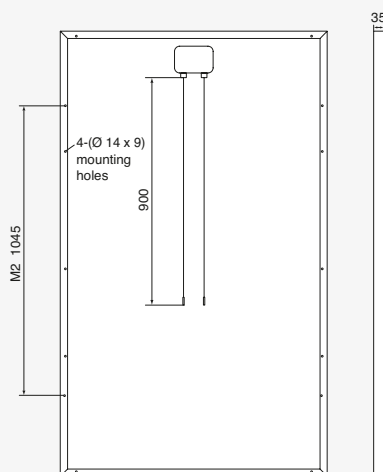
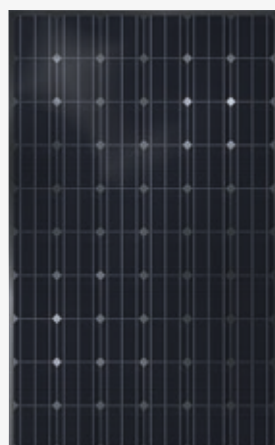
## Temperature coefficients

Voltage U <sub>oc</sub>	-0,30 %/K
Current I <sub>sc</sub>	0,04 %/K
Output P <sub>mpp</sub>	-0,40 %/K

## Low-light performance

 (Example for AC-300M/156-60S)

I-U characteristic curve	Current I <sub>pp</sub>	Voltage U <sub>pp</sub>
200 W/m <sup>2</sup>	2,15 A	30,17 V
400 W/m <sup>2</sup>	3,71 A	31,20 V
600 W/m <sup>2</sup>	6,05 A	31,81 V
800 W/m <sup>2</sup>	7,57 A	32,10 V
1000 W/m <sup>2</sup>	9,34 A	32,16 V



All dimensions in mm