



AC-280M/156-60S
 AC-285M/156-60S
 AC-290M/156-60S

www.axitecsolar.com

AXITEC
 high quality german solar brand

AXIworldblackpremium

60 cell monocrystalline
 High performance photovoltaic module

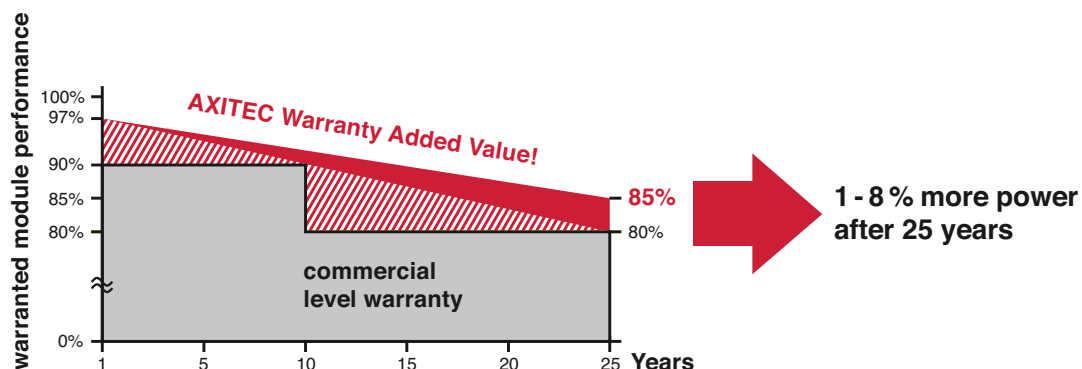
The advantages:

- 12** Years 12 years manufacturer's warranty
- P-Max** Highest performance due to specifically selected technologies and materials
- + 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



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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-280M/156-60S	280 Wp	31,50 V	8,95 A	9,55 A	39,45 V	17,12 %
AC-285M/156-60S	285 Wp	31,59 V	9,09 A	9,68 A	39,56 V	17,43 %
AC-290M/156-60S	290 Wp	31,71 V	9,16 A	9,70 A	39,70 V	17,74 %

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	1650 x 991 x 35 mm
Weight	18,0 kg with frame

Power connection

Socket	Protection Class IP67 (3 bypass diodes)
Wire	approx. 1,0 m, 4 mm ²
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 ²
Reverse current feed IR	15,0 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

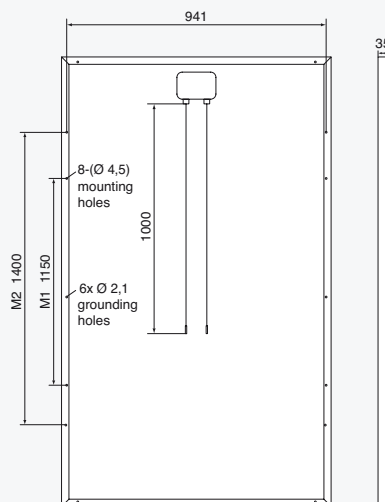
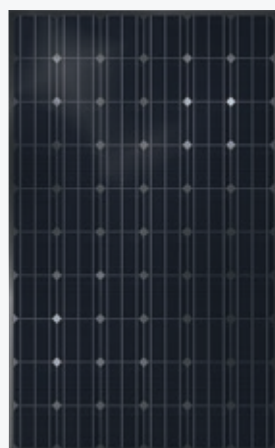
Temperature coefficients

Voltage U _{oc}	-0,30 %/K
Current I _{sc}	0,04 %/K
Output P _{mpp}	-0,40 %/K

Low-light performance

 (Example for AC-285M/156-60S)

I-U characteristic curve	Current I _{pp}	Voltage U _{pp}
200 W/m ²	1,86 A	30,10 V
400 W/m ²	3,74 A	30,30 V
600 W/m ²	5,50 A	31,00 V
800 W/m ²	7,28 A	31,40 V
1000 W/m ²	9,09 A	31,59 V



All dimensions in mm