



AC-270M/156-60S AC-285M/156-60S
AC-275M/156-60S AC-290M/156-60S
AC-280M/156-60S AC-295M/156-60S

www.axitecsolar.us

AXITEC®
high quality german solar brand

AXIpremium

60 cell monocrystalline
High performance photovoltaic module



German engineered – made for America



12 years manufacturer's warranty
Two more years than industry standard



Highest performance due to specifically
selected technologies and materials



Positive power tolerance from 0-5 Wp
Higher guaranteed yield



Snow load of up to 113 psf
Stable module for a long life in extreme conditions



100 % electroluminescence inspection
Micro crack and hotspot free modules



Axitec-Soft-Grip-Seam aluminum frame
Higher stability and easier handling



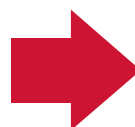
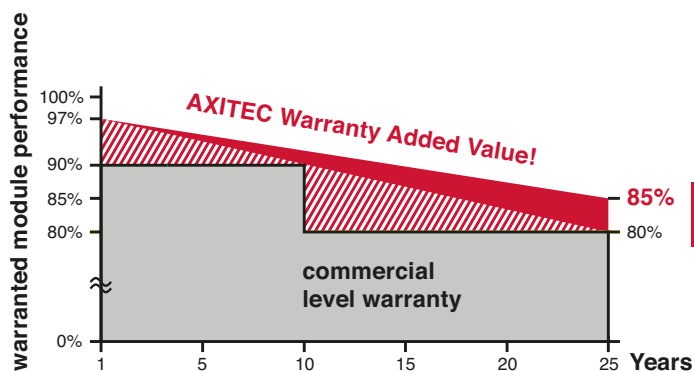
High quality junction box and connector
system for a longer life time



Fig. similar 60M156USA180111A

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



1 - 8 % more power
after 25 years



Module Fire Performance:
TYPE 1 (UL 1703)
CLASS C (IEC61730)

AXI- premium

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Distributed by:

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-270M/156-60S	270 Wp	30.94 V	8.80 A	9.41 A	39.26 V	16.60 %
AC-275M/156-60S	275 Wp	31.20 V	8.86 A	9.50 A	39.32 V	16.90 %
AC-280M/156-60S	280 Wp	31.50 V	8.95 A	9.55 A	39.45 V	17.21 %
AC-285M/156-60S	285 Wp	31.59 V	9.09 A	9.68 A	39.56 V	17.52 %
AC-290M/156-60S	290 Wp	31.71 V	9.16 A	9.70 A	39.70 V	17.83 %
AC-295M/156-60S	295 Wp	31.80 V	9.29 A	9.75 A	39.95 V	18.13 %

Design

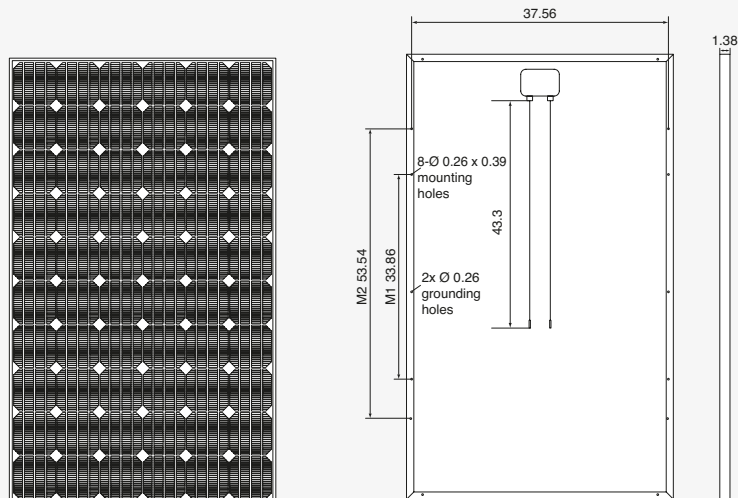
Frontside	0.13 inch (3.2 mm) hardened, low-reflection white glass
Cells	60 monocrystalline high efficiency cells 6 inch (156 x 156 mm)
Backside	Composite film
Frame	1.38 inch (35 mm) silver anodized aluminium frame

Mechanical data

L x W x H	64.57 x 39.06 x 1.38 inch (1640 x 992 x 35 mm)
Weight	39.68 lbs (18.0 kg) with frame

Power connection

Socket	Protection Class IP67 (3 bypass diodes)
Wire	43.3 inch, AWG 11
Plug-in system	Plug/socket IP67



All dimensions in inch

Limit values

System voltage	1000 VDC (UL) 1000 VDC (IEC)
NOCT (nominal operating cell temperature)*	45°C +/-2K
Max. load-carrying capacity	113 PSF
Reverse current feed IR	15.0 A
Permissible operating temperature	-40°C to 85°C / -40F to 185F

(No external voltages greater than V_o 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-280M/156-60S)

I-U characteristic curve	Current I _{pp}	Voltage U _{pp}
200 W/m ²	2.06 A	29.55 V
400 W/m ²	3.55 A	30.56 V
600 W/m ²	5.08 A	31.15 V
800 W/m ²	7.25 A	31.44 V
1000 W/m ²	8.95 A	31.50 V

Packaging

Module pieces per pallet	30
Module pieces per HC-container	840