



AC-270M/156-60S

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AXITEC[®]
high quality german solar brand

AXIworldpremium

60 cell monocrystalline
High performance photovoltaic modules



German engineered – made for America



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



P-Max
Highest performance due to specifically selected technologies and materials



Wp
Positive power tolerance from 0-5 Wp
Higher guaranteed yield



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



100%
100 % electroluminescence inspection
Micro crack and hotspot free modules



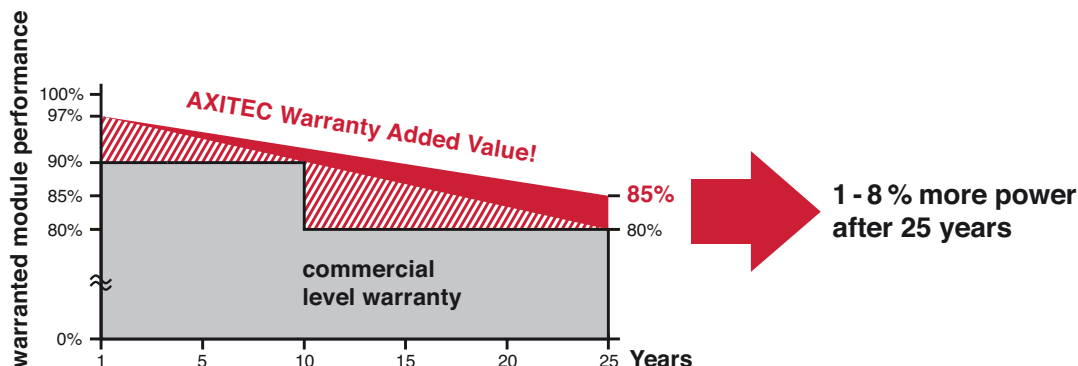
IP 67
High quality junction box and connector system for a longer life time



Fig. similar 60M156USA180816A-122/1

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



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 %

Design

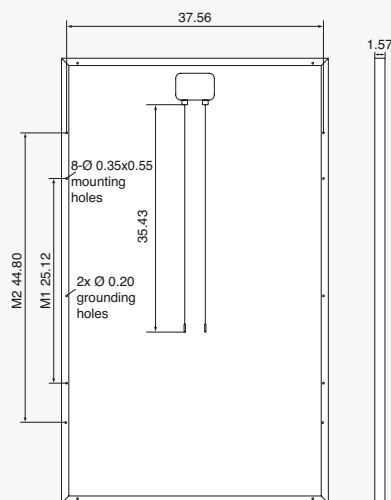
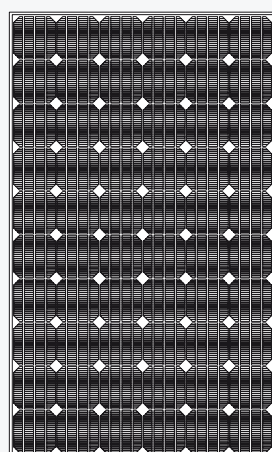
Frontside	0.13 inch (3.2 mm) hardened, low-reflection white glass
Cells	60 monocrystalline high efficiency cells 6 inch (156 x 156 mm)
Backside	Composite film
Frame	1.57 inch (40 mm) silver anodized aluminium frame

Mechanical data

L x W x H	64.57 x 39.05 x 1.57 inch (1640 x 992 x 40 mm)
Weight	44.09 lbs (20 kg) with frame

Power connection

Socket	Protection Class IP65 (3 bypass diodes)
Wire	35.43 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-260M/156-60S)

I-U characteristic curve	Current I _{pp}	Voltage U _{pp}
200 W/m ²	1.71 A	30.00 V
400 W/m ²	3.41 A	30.10 V
600 W/m ²	5.18 A	30.18 V
800 W/m ²	6.89 A	30.36 V
1000 W/m ²	8.60 A	30.42 V