



290 - 300 Wp

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**AXITEC**<sup>®</sup>  
high quality german solar brand

## AXIpremium

60 cell monocrystalline, 1000 V  
High performance solar module

German engineered – made for America








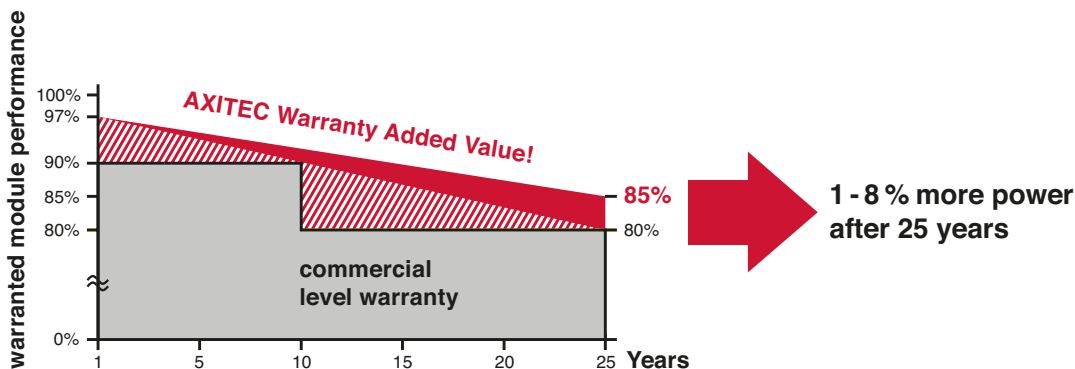
-  15 years manufacturer's warranty  
Two more years than industry standard
-  Highest performance due to specifically selected technologies and materials
-  Positive power tolerance from 0-5 Wp  
Higher guaranteed yield
-  Snow load of up to 113 psf  
Stable module for a long life in extreme conditions
-  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 60MUSA180509A

### 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



(Photovoltaic Module over 600 Volts)  
E487509

# AXIpremium 290 - 300 Wp

**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/60S	290 Wp	32.01 V	9.06 A	9.54 A	39.42 V	17.83 %
AC-295M/60S	295 Wp	32.25 V	9.15 A	9.67 A	39.56 V	18.13 %
AC-300M/60S	300 Wp	32.37 V	9.27 A	9.74 A	39.72 V	18.44 %

## 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

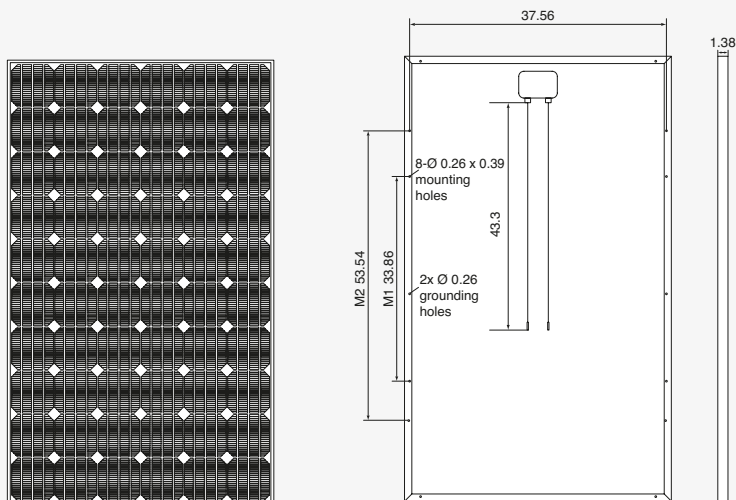
Socket	Protection Class IP67 (3 bypass diodes)
Wire	43.3 inch, AWG 11
Plug-in system	Plug/socket IP67

## Limit values

System voltage	1000 VDC (UL) 1000 VDC (IEC)
Module Fire Performance	TYPE 1 (UL 1703) or CLASS C (IEC 61730)
NOCT (nominal operating cell temperature)*	45°C +/-2K
Max. load-carrying capacity	113 PSF
Reverse current feed IR	20.0 A
Permissible operating temperature	-40°C to 85°C / -40F to 185F

(No external voltages greater than V<sub>o</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



All dimensions in inch

## 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/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>	9.27 A	32.37 V

## Packaging

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