



280 - 300 Wp

www.axitecsolar.us

AXITEC[®]
high quality german solar brand

AXIblackpremium

60 cell monocrystalline, 1000 V
High performance solar module

German engineered – made for America

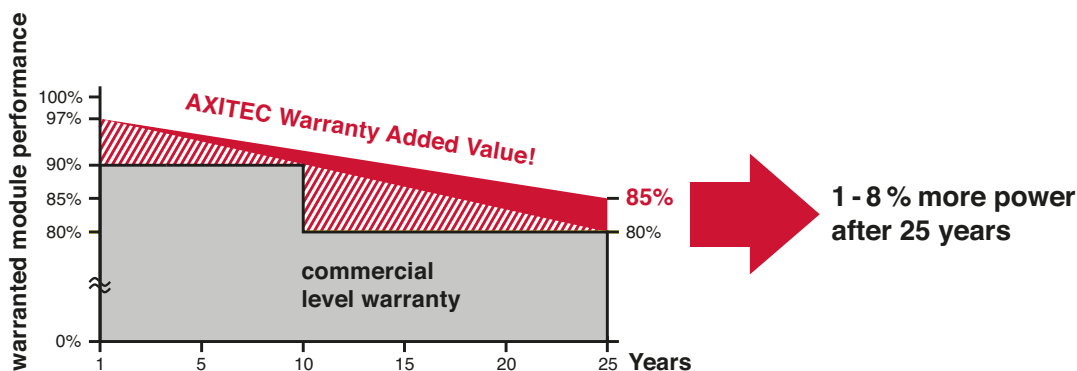
- 15** Years 15 years manufacturer's warranty
Two more years than industry standard
- P-Max** Highest performance due to specifically selected technologies and materials
- Wp** Positive power tolerance from 0-5 Wp
Higher guaranteed yield
- 113 PSF** Snow load of up to 113 psf
Stable module for a long life in extreme conditions
- 100%** 100 % electroluminescence inspection
Micro crack and hotspot free modules
- Soft Grip** Axitec-Soft-Grip-Seam aluminum frame
Higher stability and easier handling
- IP 67** High quality junction box and connector system for a longer life time



Fig. similar 60MUSA180702A

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

AXIblackpremium 280 - 300 Wp

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/60S	280 Wp	31.68 V	8.84 A	9.36 A	39.05 V	17.21 %
AC-285M/60S	285 Wp	31.81 V	8.96 A	9.43 A	39.24 V	17.52 %
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	9.17 A	9.68 A	39.56 V	18.13 %
AC-300M/60S	300 Wp	32.37 V	9.29 A	9.75 A	39.72 V	18.44 %

Design

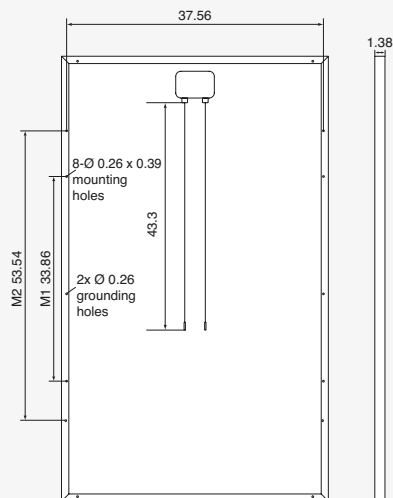
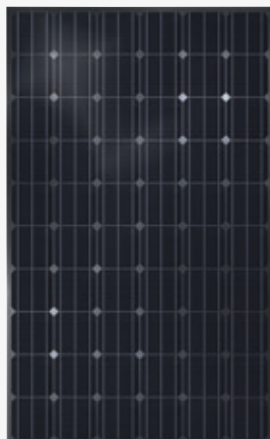
Frontside	0.13 inch (3.2 mm) hardened, low-reflection white glass
Cells	60 monocrystalline high efficiency cells 6 inch (156 x 156 mm)
Backside	Composite film
Frame	1.38 inch (35 mm) black anodized aluminium frame

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)
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_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/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	8.84 A	31.68 V

Packaging

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