



AC-300P/156-72S
 AC-305P/156-72S
 AC-310P/156-72S

www.axitecsolar.us

AXITEC[®]
 high quality german solar brand

AXIpower

72 cell/polycrystalline photovoltaic modules
 High performance photovoltaic modules



German engineered – made for America



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



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



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



50 PSF
 Snow load of up to 50 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



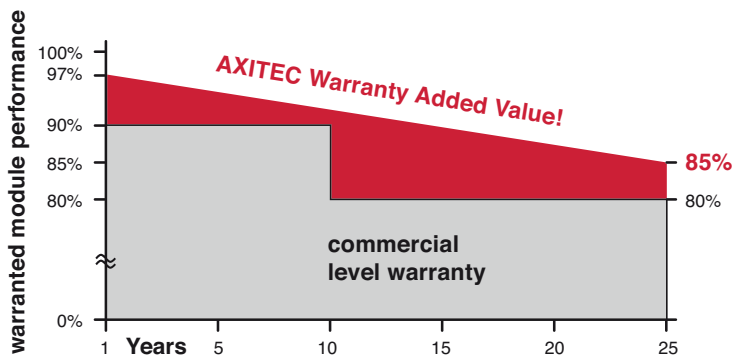
IP 67
 High quality junction box and connector system for a longer life time



Fig. similar 72P156USA150608A

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
- Warrants around 6% more than the market standard



Intertek

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

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-300P/156-72S	300 Wp	36.73 V	8.18 A	8.71 A	45.48 V	15.46 %
AC-305P/156-72S	305 Wp	36.85 V	8.28 A	8.81 A	45.50 V	15.72 %
AC-310P/156-72S	310 Wp	37.02 V	8.39 A	8.89 A	45.52 V	15.98 %

Design

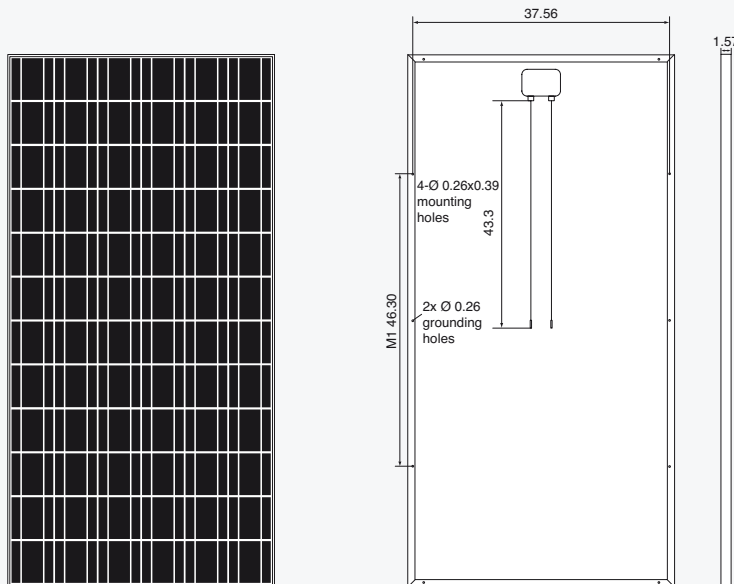
Frontside	0.13 inch (3.2 mm) hardened, low-reflection white glass
Cells	72 polycrystalline high efficiency cells 6 inch (156 x 156 mm)
Backside	Composite film
Frame	1.57 inch (40 mm) silver anodized aluminium frame

Mechanical data

L x W x H	77.01 x 39.06 x 1.57 inch (1956 x 992 x 40 mm)
Weight	50.7 lbs (23 kg) with frame

Power connection

Socket	Protection Class IP65 (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	50 PSF
Reverse current feed IR	15.0 A
Permissible operating temperature	-40C to 85C / -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 _{mp}	-0,42 %/K

Low-light performance (Example for AC-300P/156-72S)

I-U characteristic curve	Current I _{pp}	Voltage U _{pp}
200 W/m ²	1,69 A	34,55 V
400 W/m ²	3,30 A	35,42 V
600 W/m ²	4,93 A	35,70 V
800 W/m ²	6,48 A	36,21 V
1000 W/m ²	8,18 A	36,73 V

Packaging

Module pieces per pallet	25
Module pieces per HC-container	550