



AC-290P/156-72S
 AC-295P/156-72S
 AC-300P/156-72S
 AC-305P/156-72S

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AXITEC
 high quality german solar brand

AXIworldpower

72 cell/ polycrystalline photovoltaic modules
 High performance photovoltaic modules

The advantages:

- 12** Years 12 years manufacturer's warranty
- A-Max** Highest performance due to specifically selected technologies and materials
- Wp** Guaranteed positive power tolerance from 0-5 Wp by individual measurement
- 2.400 Pa** Maximum 2400 Pa snow load
- 100%** 100% electroluminescence inspection
- IP 67** High quality junction box and connector systems

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

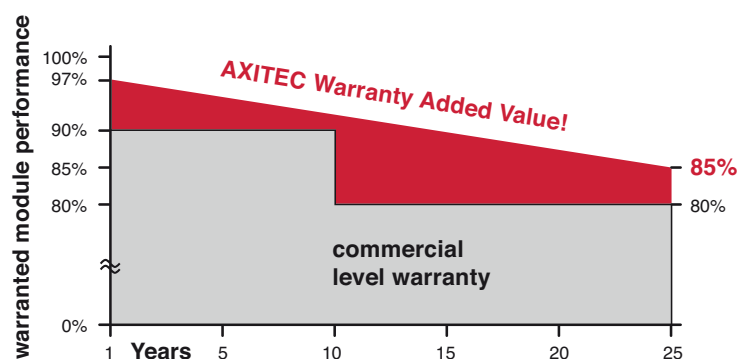


Fig. similar 72P156EN160502-111/1

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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-290P/156-72S	290 Wp	36,19 V	8,02 A	8,59 A	44,86 V	15,46 %
AC-295P/156-72S	295 Wp	36,46 V	8,10 A	8,65 A	45,17 V	15,72 %
AC-300P/156-72S	300 Wp	36,73 V	8,18 A	8,71 A	45,48 V	15,98 %
AC-305P/156-72S	305 Wp	36,85 V	8,28 A	8,81 A	45,50 V	15,72 %

Design

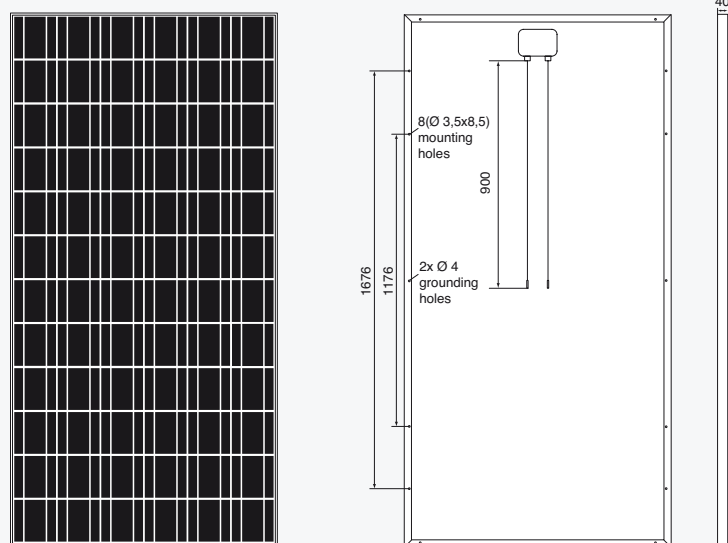
Frontside	3,2 mm hardened, low-reflection white glass
Cells	72 polycrystalline high efficiency cells 156 mm x 156 mm (6")
Backside	Composite film
Frame	40 mm silver anodized aluminium frame

Mechanical data

L x W x H	1956 x 992 x 40 mm
Weight	22,0 kg with frame

Power connection

Socket	Protection Class IP65 (3 bypass diodes)
Wire	approx.0,9 m, 4 mm ²
Plug-in system	Plug/socket IP67



All dimensions in mm

Limit values

System voltage	1000 VDC
NOCT (nominal operating cell temperature)*	45°C +/-2K
Max. load-carrying capacity	2400 N/m ²
Reverse current feed IR	15,0 A
Permissible operating temperature	-40°C to 85°C / -40F to 185F

(No external voltages greater than U_{oc} 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}	-0,42 %/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