



## 270 - 280 Wp

## AXIworldpower

60 cell polycrystalline  
High performance photovoltaic module

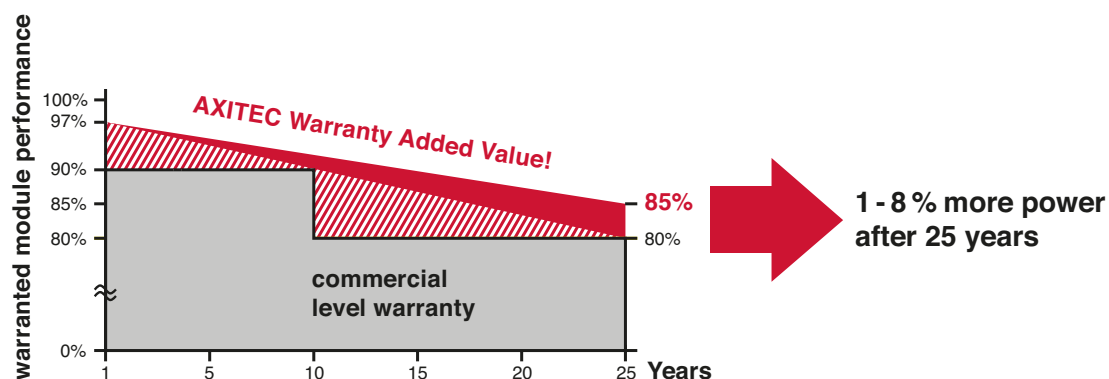
### The advantages:

- 15** Years 15 years manufacturer's warranty
- P-Max** Highest performance due to specifically selected technologies and materials
- Wp** Guaranteed positive power tolerance from 0-5 Wp by individual measurement
- 5.400 Pa** Maximum 5400 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





## AXIworldpower 270 - 280 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-270P/60S	270 Wp	31,26 V	8,64 A	9,15 A	38,31 V	16,53 %
AC-275P/60S	275 Wp	31,47 V	8,74 A	9,24 A	38,50 V	16,84 %
AC-280P/60S	280 Wp	31,73 V	8,83 A	9,32 A	38,68 V	17,14 %

### Design

Frontside	3,2 mm hardened, low-reflection white glass
Cells	60 polycrystalline high efficiency cells 156 mm x 156 mm (6")
Backside	Composite film
Frame	35 mm silver aluminium frame

### Mechanical data

L x W x H	1650 x 990 x 35 mm
Weight	18,5 kg with frame

### Power connection

Socket	Protection Class IP65 (3 bypass diodes)
Wire	approx. 1,0 m, 4 mm <sup>2</sup>
Plug-in system	Plug/socket IP67

### Limit values

System voltage	1000 VDC
NOCT (nominal operating cell temperature)*	45°C +/-2K
Max. load-carrying capacity	5400 N/m <sup>2</sup>
Reverse current feed IR	15,0 A
Permissible operating temperature	-40°C to 85°C / -40F to 185F

(No external voltages greater than U<sub>oc</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

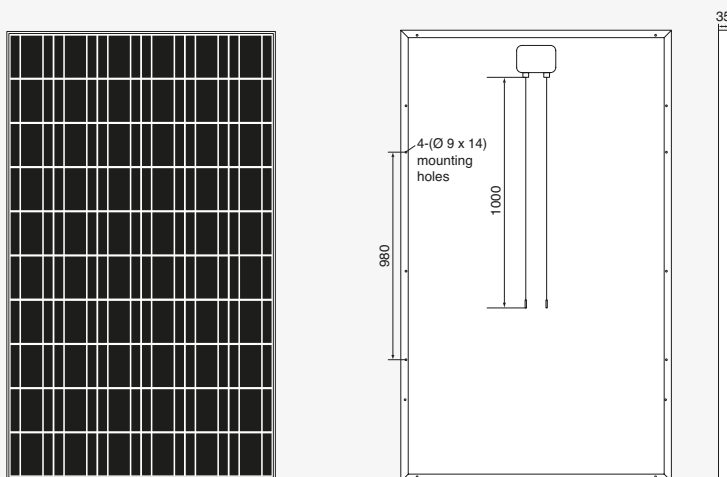
### Temperature coefficients

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-280P/60S)

I-U characteristic curve	Current I <sub>pp</sub>	Voltage U <sub>pp</sub>
200 W/m <sup>2</sup>	2,06 A	30,10 V
400 W/m <sup>2</sup>	3,55 A	30,56 V
600 W/m <sup>2</sup>	5,08 A	31,15 V
800 W/m <sup>2</sup>	7,25 A	31,44 V
1000 W/m <sup>2</sup>	8,83 A	31,73 V



All dimensions in mm