



270 - 280 Wp

AXITEC
high quality german solar brand

AXIpower

High performance solar module
60 cell, polycrystalline

The advantages:

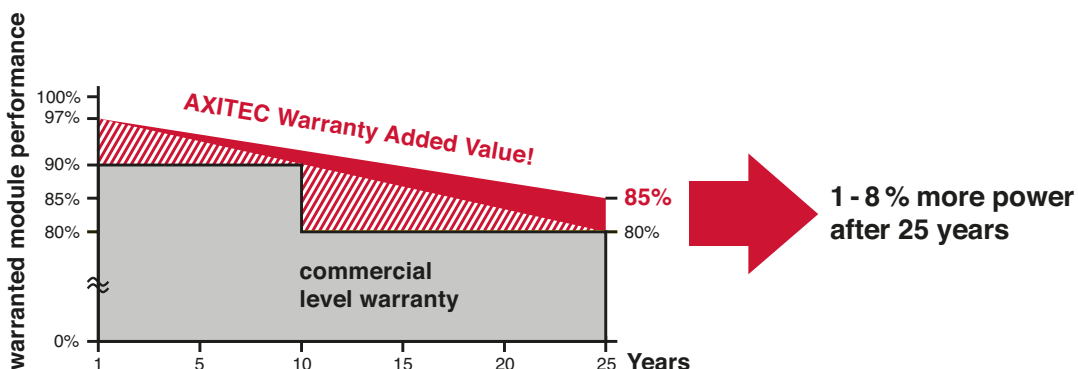
- 15** Years 15 years Manufacturer's warranty
- P-Max** High performance due to selected technologies and materials
- + Wp** Guaranteed positive power tolerance from 0-5 Wp by individual measurement
- 100%** 100% visual electroluminescence inspection in production
- Frame** High stability due to innovative frame design
- IP 68** High quality junction box and connector systems



Fig. similar 60PEN210517A

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



AXIpower 270 - 280 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-270P/60S	270 Wp	31.26 V	8.64 A	9.15 A	38.31 V	16.50 %
AC-275P/60S	275 Wp	31.47 V	8.74 A	9.24 A	38.50 V	16.80 %
AC-280P/60S	280 Wp	31.73 V	8.83 A	9.32 A	38.68 V	17.11 %

Design

Frontside	3.2 mm hardened, low-reflection white glass
Cells	60 polycrystalline high efficiency cells
Backside	Composite film
Frame	35 mm silver aluminium frame

Mechanical data

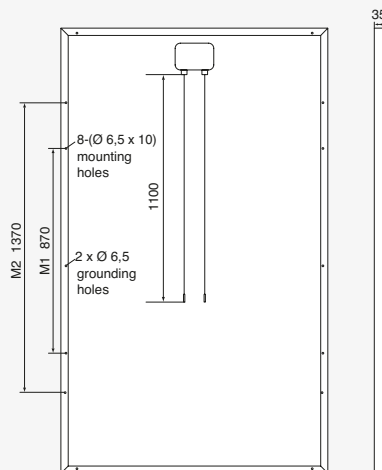
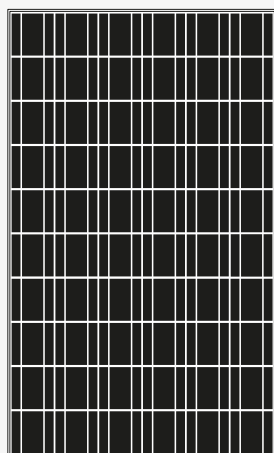
L x W x H	1650 x 992 x 35 mm
Weight	18.1 kg with frame

Mechanical load

Design load (pressure/suction)	3600 Pa / 1600 Pa
Test load (pressure/suction)	5400 Pa / 2400 Pa

Power connection

Socket	Protection Class IP68 (3 bypass diodes)
Wire	approx. 1.1 m, 4 mm ²
Plug-in system	Plug/socket IP68, Stäubli MC4 / MC4 pluggable



All dimensions in mm

Limit values

System voltage	1000 VDC
NOCT (nominal operating cell temperature)*	45°C +/-2K
Reverse current feed IR	20.0 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}	-0.40 %/K

Low-light performance (Example for AC-280P/60S)

I-U characteristic curve	Current I _{pp}	Voltage U _{pp}
200 W/m ²	1.80 A	30.54 V
400 W/m ²	3.64 A	30.89 V
600 W/m ²	5.44 A	31.13 V
800 W/m ²	7.19 A	31.40 V
1000 W/m ²	8.83 A	31.73 V