

AX P-60^{3.2} premium

*Photovoltaic modules from German manufacturer -
developed and manufactured with
German quality demand*

**reliable . powerful . attractive
passionate . honest . empathic**

- ▶ *Front with 3.2 mm tempered safety solar glass*
- ▶ *Optimal use of the sun by high-efficiency polycrystalline cells*
- ▶ *Plus sorting for extra yield*
- ▶ *PID free*
- ▶ *100% EL tested*
- ▶ *100% Made in Germany*



- ▶ **15 years product guarantee**
on products with tempered safety solar glass
- ▶ **12 years product guarantee** on premium products with ARC tempered safety solar glass (anti-reflection coating)
- ▶ **25 year performance guarantee**
very good performance tolerance 0/+5Wp
compatible with all common inverters
- ▶ constant production control
- ▶ processing of high quality components according to German quality standards
- ▶ further option of integrated Solaredge Power Optimizer maximizing the kWh output up to 25%



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www.axsun.de

Basic data

| | |
|--|--|
| Dimensions (LxWxH) | 1655 x 995 x 40 mm |
| Weight | 18 kg |
| Cells | 60 polycrystalline solar cells (156x156 mm) |
| Glass | 3.2 mm hardened safety glass, optional with anti-reflection coating |
| Frame | Anodised aluminium section with hollow chamber and drainage holes, black or silver anodised |
| Bypass diodes | 3 pieces |
| Connection socket | Connecting socket plastic, IP65 type of protection, optional with embedded Solaredge power optimizer |
| Cable, plug | 4mm ² solar cable, 1000 mm long, high-quality plug system, KSK4 (MC4) |
| Max. Voltage | 1000 V |
| Max. return current | 15 A |
| Temperature range | -40°C to 85°C |
| Max. pressure load <small>(with third mounting rail, please follow installation instructions)</small> | 7200 Pascal |
| Max. pressure load | 5400 Pascal |
| Max. dynamic load | 2400 Pascal |
| Application class <small>(acc. to IEC 61730)</small> | A |
| Fire class <small>(acc. to IEC 61730)</small> | C |
| Protection class | II |
| Laminate | Dimensions 1648 x 988 x 5 mm, Weight 16.9 kg |

Electrical data

under standard test conditions *

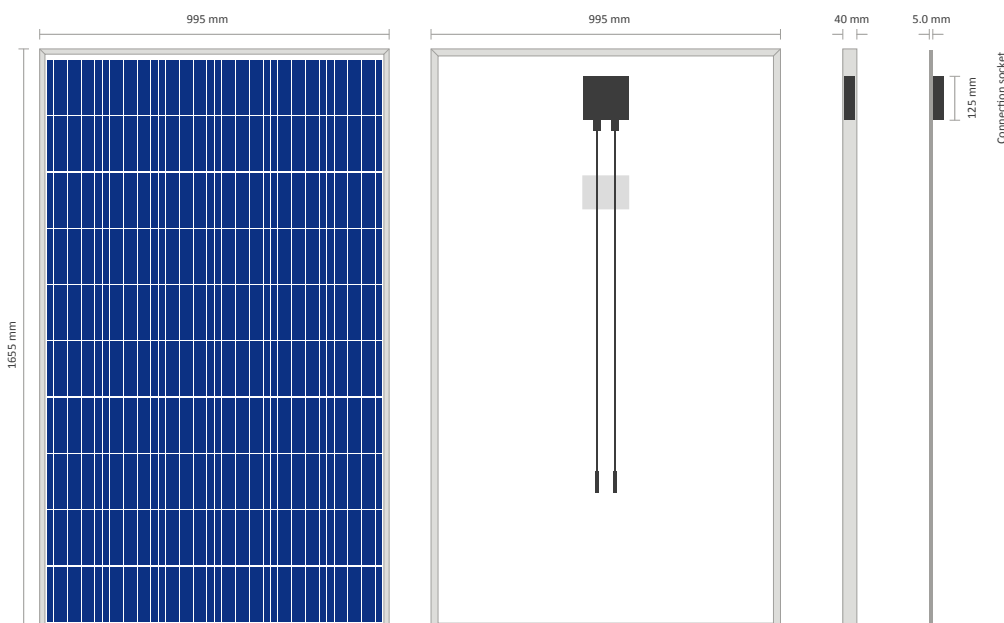
| | | AX P-60 270 | AX P-60 275 | AX P-60 280 |
|-----------------------|----------------------|----------------|----------------|----------------|
| Rated power | P_{MPP} [Wattpeak] | 270 Wp | 275 Wp | 280 Wp |
| Rated voltage | U_{MPP} [Volt] | 31.03 V | 31.36 V | 31.67 V |
| Rated current | I_{MPP} [Ampere] | 8.70 A | 8.77 A | 8.84 A |
| No-load voltage | U_{OC} [Volt] | 38.17 V | 38.57 V | 38.96 V |
| Short-circuit current | I_{SC} [Ampere] | 9.30 A | 9.38 A | 9.45 A |
| Efficiency | η | 16.40 % | 16.70 % | 17.00 % |

Electrical behaviour under NOCT**

| | | | | |
|-----------------------|-----------------------|---------|---------|---------|
| Rated power NOCT | P_{NOCT} [Wattpeak] | 196 Wp | 199 Wp | 203 Wp |
| Rated voltage | U_{MPP} [Volt] | 27.77 V | 28.06 V | 28.34 V |
| Rated current | I_{MPP} [Ampere] | 7.04 A | 7.10 A | 7.15 A |
| No-load voltage | U_{OC} [Volt] | 34.70 V | 35.06 V | 35.42 V |
| Short-circuit current | I_{SC} [Ampere] | 7.53 A | 7.59 A | 7.65 A |

Temperature coefficient (in case of temperature change)

| | | |
|---------|----------------------|------------------------------|
| Power | P_{MPP} [Wattpeak] | $Tk P_{MPP} = -0.406 \% / K$ |
| Voltage | U_{OC} [Volt] | $Tk U_{OC} = -0.308 \% / K$ |
| Current | I_{SC} [Ampere] | $Tk I_{SC} = 0.057 \% / K$ |



take away
for an easy way



Sales partner AxSun Solar

100%
MADE IN
GERMANY

Certified in accordance with IEC 61215 ed.2 and IEC 61730 • All data on this data sheet comply with DIN EN 50380 • Further information in the assembly and installation instructions •

You can call up our detailed guarantee and performance conditions under www.axsun.de • WEEE-Reg.-Nr. DE 71294982 • Measuring tolerance rated power: +/- 4%;

other values: Measuring tolerance: +/- 10% • * Standard test conditions (STC): Radiation into module plane 1,000 W/m², (AM) 1.5; 25°C •

** Normal Operating Cell Temperature (NOCT): 800 W/m², (AM) 1.5; 47°C