Solar module

AX M-54 3.2 premium

AxSun Solar

„German Modules with Character"

- **15 year product guarantee***
  on premium and deluxe products with tempered safety solar glass
- 10 year 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
- optional with embedded Solaredge power optimizer for up tp 25 % more energy

* You can call up our detailed guarantee and performance conditions under www.axsun.de.

** Performance guarantee: 97.5% in the 1st year, linearised performance guarantee from the 2nd year onwards with a maximum 0.7% reduction in performance per year. Guaranteed 91.2% of the performance in the 10th year and 80.7% of the performance in the 25th year (related to the specified minimum performance).

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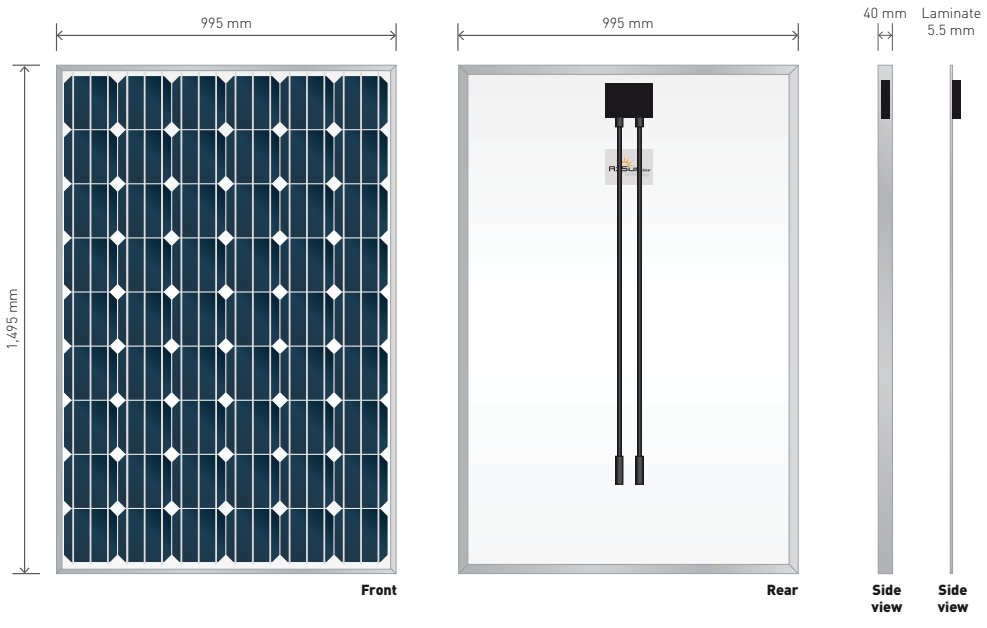
Basic data	Module	Laminate
Dimensions	Length 1,495 mm Width 995 mm Height 40 mm	*Length 1,486 mm* *Width 986 mm* *Height 5.5 mm* *(without connecting socket)*
Weight	16.1 kg	*13.6 kg*
Cells	54 monocrystalline solar cells (156x156mm)	
Glass	3.2 mm hardened safety glass, optional with anti-reflection coating	
Frame	Anodised aluminium section with hollow chamber and drainage holes, black or silver anodised	–
Bypass-diodes	3 pieces	
Connecting socket	plastic, IP65 type of protection, optional with embedded Solaredge power optimizer	
Cable, plug	4 mm² solar cable, 1,000 mm long, high-quality plug system, MC4 compatible	
Max. Voltage	1,000 V	
Max. return current	15 A	
Temperature range	-40°C to 85°C	
Max. pressure load	5,400 Pascal	*
Max. dynamic load	2,400 Pascal	*
Application class (acc. to IEC 61730)	A	
Fire class (acc. to IEC 61730)	C	
Protection class	II	

Electrical data under standard test conditions*		AX M-54 235	AX M-54 240	AX M-54 245
Rated power	P_{MPP} [Wattpeak]	235 Wp	240 Wp	245 Wp
Rated voltage	U_{MPP} [Volt]	26.95 V	27.24 V	27.56 V
Rated current	I_{MPP} [Ampere]	8.72 A	8.81 A	8.89 A
No-load voltage	U_{OC} [Volt]	33.15 V	33.51 V	33.9 V
Short-circuit current	I_{SC} [Ampere]	9.32 A	9.42 A	9.5 A
Efficiency	η	15.80 %	16.13 %	16.47 %

Electrical behaviour under NOCT**				
Rated power NOCT	P_{NOCT} [Wattpeak]	170 Wp	174 Wp	178 Wp
Rated voltage	U_{MPP} [Volt]	24.11 V	24.37 V	24.66 V
Rated current	I_{MPP} [Ampere]	7.06 A	7.13 A	7.19 A
No-load voltage	U_{OC} [Volt]	30.13 V	30.46 V	30.82 V
Short-circuit current	I_{SC} [Ampere]	7.55 A	7.62 A	7.69 A

Temperature coefficient (in case of temperature change)		
Power	P_{MPP} [Watt]	Tk P_{MPP}= -0.46 %/K
Voltage	U_{OC} [Volt]	Tk U_{OC}= -0.367 %/K
Current	I_{SC} [Ampere]	Tk I_{SC}= 0.04 %/K



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Certified in accordance with IEC 61215 ed.2 and IEC 61730 u. p. • Further information in the assembly and installation instructions • All data on this data sheet comply with DIN EN 50380 • Measuring tolerance rated power: +/- 4%; other values: Measuring tolerance: +/- 10% • *depending on roof integration system •
** 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