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Solar Panel Guide Specification Data Sheet

**AxSun Solar GmbH & Co. KG
AX M-54 3.2 premium sol HIGH POWER
AX M-54 275**

Also available on the web at
EnergyPal.com/axsun-solar-gmbh-co-kg-solar-panels/ax-m-54-275

AX M-54 3.2

premium sol
HIGHPOWER

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

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

BIPV

monocrystalline solar module AX M-54 premium sol,
developed for the perfect building integration

SOLRIF®

Solrif has become the market leader with their patented BIPV-System and is well-established due to high yields, functional aesthetics and simple installation. A high efficiency solar roof tile has been developed using PV laminates from AxSun and the Solrif BIPV mounting system from Schweizer. Thus, conventional roof tiles can be totally replaced on a pitched roof.

Our BIPV-System is a real integration compared to roof-mounted PV systems.



- ▶ 15 year product guarantee
- ▶ 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



AX M-54^{3.2}

premium sol HIGHPOWER

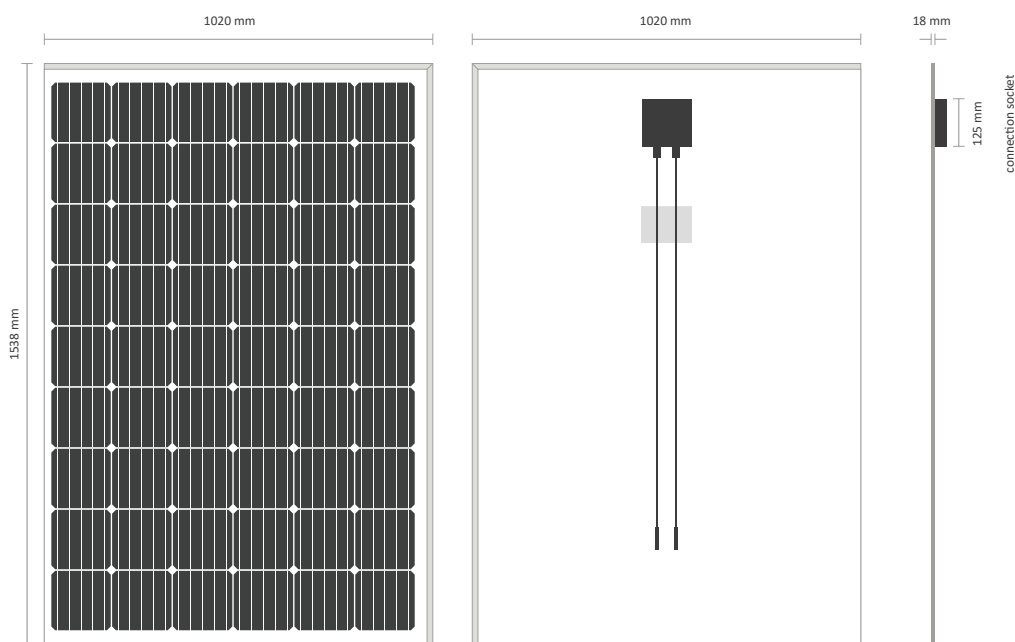
www.axsun.de

Basic data	Sol-Laminate
Dimensions (Length x Width x Height)	1538 x 1020 x 18 mm
Dimensions (Installation) (Length x Width x Height)	1520 x 988 x 18 mm
Weight	15.6 kg
Cells	54 monocrystalline Solarzellen (156x156 mm)
Glass	3.2 mm hardened solar glas
Frame	SOLRIF® frame
Bypass-diodes	3 pieces (SMD diodes with cooling plate)
Connecting socket	plastic, IP67 type of protection
Cable, Plug	4mm ² solar cable, 1.000 mm long, high-quality plug system, original MC4
Max. Voltage	1000 V
Max. return current	20 A
Temperature range	-40°C to 85°C
Max. pressure load	5400 Pascal
Max. dynamic load	2400 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-54 270	AX M-54 275	AX M-54 280
Rated power	P_{MPP} [Wattpeak]	270 Wp	275 Wp	280 Wp
Rated voltage	U_{MPP} [Volt]	29.32 V	29.57 V	29.95 V
Rated current	I_{MPP} [Ampere]	9.21 A	9.30 A	9.35 A
No-load voltage	U_{OC} [Volt]	36.06 V	36.37 V	36.83 V
Short-circuit current	I_{SC} [Ampere]	9.85 A	9.94 A	10.00 A
Efficiency	η	17.21 %	17.53 %	17.85 %

Electrical behaviour under NOCT**				
Rated power NOCT	P_{NOCT} [Wattpeak]	196 Wp	199 Wp	203 Wp
Rated voltage	U_{MPP} [Volt]	26.23 V	26.46 V	26.79 V
Rated current	I_{MPP} [Ampere]	7.45 A	7.52 A	7.57 A
No-load voltage	U_{OC} [Volt]	32.78 V	33.06 V	33.49 V
Short-circuit current	I_{SC} [Ampere]	7.97 A	8.04 A	8.09 A

Temperature coefficient (in case of temperature change)			
Power	P_{MPP} [Wattpeak]		$Tk P_{MPP} = -0.38 \%/K$
Voltage	U_{OC} [Volt]		$Tk U_{OC} = -0.30 \%/K$
Current	I_{SC} [Ampere]		$Tk I_{SC} = 0.07 \%/K$



take way
for an easy way



Sales partner AxSun Solar

100%
MADE IN
GERMANY

Certified in accordance with IEC 61215 ed.2 and IEC 61730 u. p. • 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 • All data on this data sheet comply with DIN EN 50380 • 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 • BIPV-Mounting System Solrif is certified according to TÜVdot. Com. The manufacturer of the system, Ernst Schweizer AG, Hedingen, Switzerland, gives 10 years warranty of the supplied material and parts of the system to AxSun according to the Schweizer terms of warranty, which we send you on demand. In case of warranty please refer to AxSun. The warranty agreement of Ernst Schweizer AG does not refer to the solar modules and the terms of warranty of AxSun Solar GmbH & Co.KG