

# AX M-54 3.2

## premium sol

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

**reliable . powerful . attractive**

## Elegant and powerful In-roof solar module

### 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.



MADE IN  
GERMANY



**HIGHPOWER!**

- ▶ 15 years product guarantee
- ▶ 25 years product guarantee optionally available
- ▶ 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<sup>3.2</sup>

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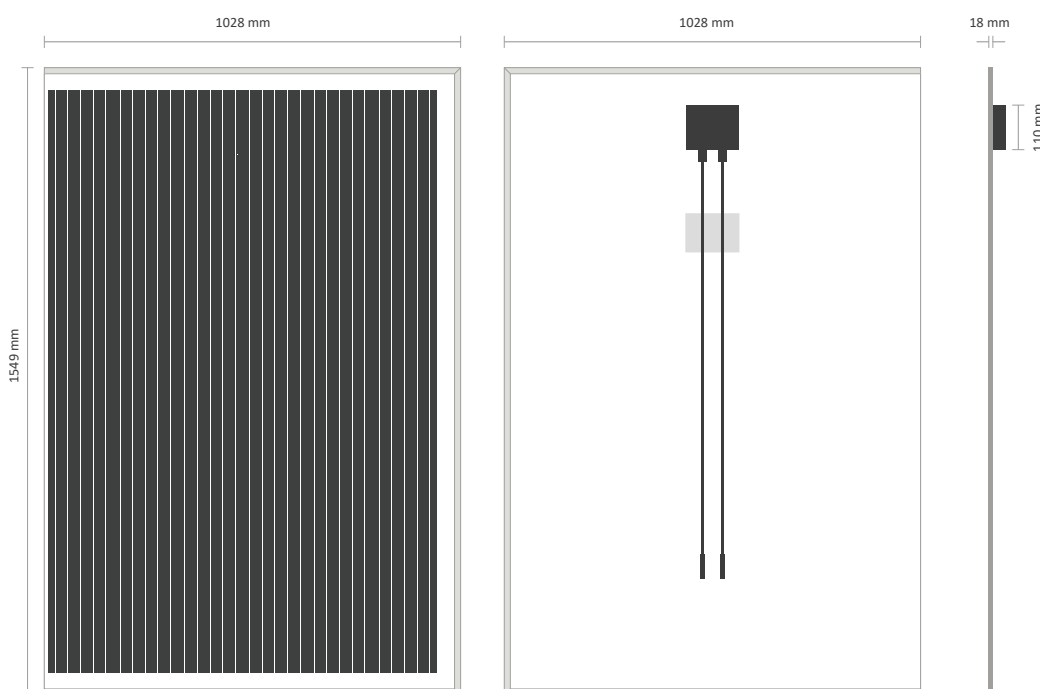
www.axsun.de

Basic data	Sol-Laminate
Dimensions (Length x Width x Height)	1549 x 1028 x 18 mm
Dimensions (Installation) (Length x Width x Height)	1531 x 996 x 18 mm
Weight	15.6 kg
Cells	54 monocrystalline solar cells (159x159 mm)
Glass	3.2 mm hardened safety glass
frame	SOLRIF® frame
Bypass-diodes	3 pieces (SMD diodes with cooling plate)
connection socket	plastic, IP67 type of protection
Cable, plug	4mm <sup>2</sup> 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 (please observe operation manual)
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-54 285	AX M-54 290	AX M-54 295	
Rated power	$P_{MPP}$ [Wattpeak]	285 Wp	290 Wp	295 Wp
Rated voltage	$U_{MPP}$ [Volt]	30.42 V	30.85 V	31.22 V
Rated current	$I_{MPP}$ [Ampere]	9.37 A	9.40 A	9.45 A
No-load voltage	$U_{OC}$ [Volt]	37.41 V	37.95 V	38.40 V
Short-circuit current	$I_{SC}$ [Ampere]	10.02 A	10.05 A	10.10 A
Efficiency	$\eta$	17.90 %	18.21 %	18.53 %

Electrical behaviour under NOCT**		AX M-54 207 Wp	AX M-54 210 Wp	AX M-54 214 Wp
Rated power NOCT	$P_{NOCT}$ [Wattpeak]	207 Wp	210 Wp	214 Wp
Rated voltage	$U_{MPP}$ [Volt]	27.21 V	27.60 V	27.93 V
Rated current	$I_{MPP}$ [Ampere]	7.58 A	7.61 A	7.65 A
No-load voltage	$U_{OC}$ [Volt]	34.01 V	34.50 V	34.91 V
Short-circuit current	$I_{SC}$ [Ampere]	8.11 A	8.13 A	8.18 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]	$Tk I_{SC} = 0.06 \% / K$



takeaway  
for an easy way

CE E SOLAR

Sales partner AxSun Solar

**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](http://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/m<sup>2</sup>, (AM) 1.5; 25°C • \*\* Normal Operating Cell Temperature (NOCT): 800 W/m<sup>2</sup>, (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