

# AX M-54<sup>3.2</sup> premium

**AXSUN** Solar  
„German Modules with Character“

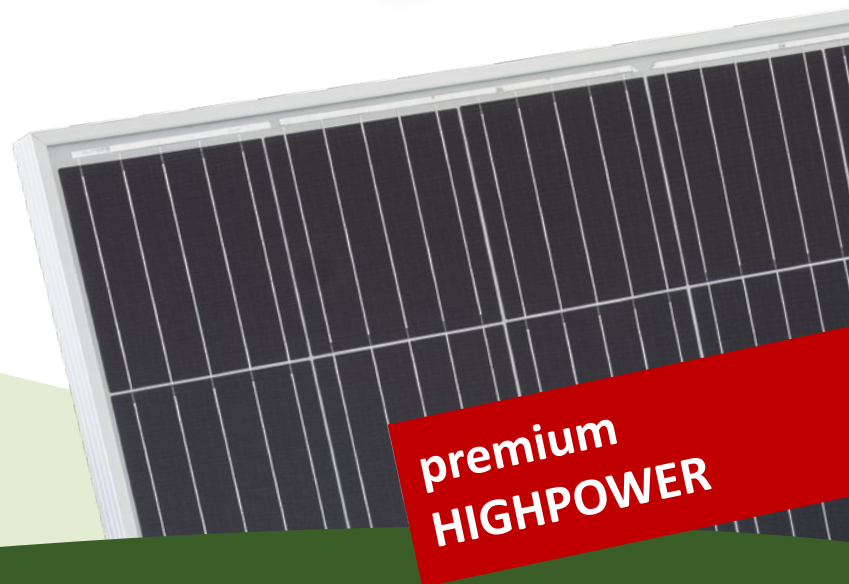
*Photovoltaic modules from German manufacturer -  
developed and manufactured with German quality demand*

**reliable . powerful . attractive**

## Extremely powerful Photovoltaic solar module

- ▶ High mechanical resistance
- ▶ Optimal use of the sun by high-efficiency monocrystalline PERC cells
- ▶ Plus sorting for extra yield
- ▶ PID free
- ▶ EL tested

MADE IN  
GERMANY 



- ▶ 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



[www.axsun.de](http://www.axsun.de)

# AX M-54 3.2

## premium

www.axsun.de

### Basic data

|  |   |
|--|---|
| Dimensions (LxWxH)   | 1505 x 1002 x 40 mm   |
| Weight   | 16.1kg  |
| Cells  | 54 monocrystalline solar cells (158x158 mm)   |
| Glass  | 3.2 mm hardened safety glass, with anti-reflection coating                                  |
| Frame  | Anodised aluminium section with hollow chamber and drainage holes, black or silver anodised |
| Bypass diodes  | 3 pieces (SMD diodes with cooling plate)  |
| Connection socket  | Connecting 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 (with third mounting rail, please follow installation instructions) | 7200 Pascal   |
| 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  |
| Laminate   | Dimensions 1499 x 996 x 5 mm, Weight 13.6 kg  |

### 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            | $\eta$               | 18.90 %     | 19.23 %     | 19.56 %     |

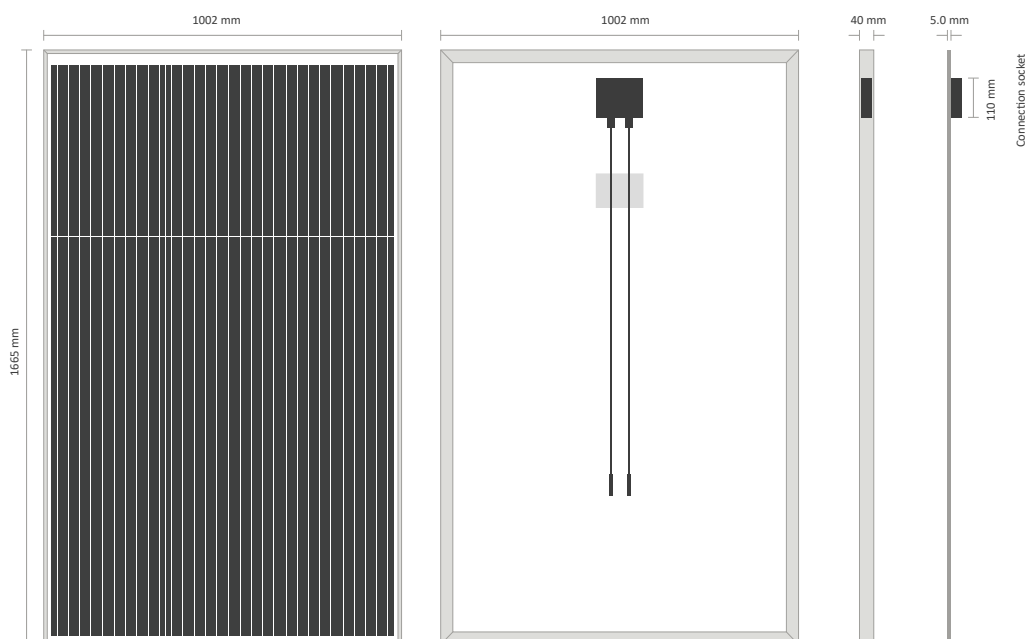
### Electrical behaviour

under NOCT\*\*

|                       |                       |         |         |         |
|-----------------------|-----------------------|---------|---------|---------|
| 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]    | $Tk I_{SC} = 0.06 \% / K$   |



take away  
for an easy way



Sales partner AxSun Solar

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