

## AXIbiperfect GXXL WB 440 Wp

High performance bifacial solar module  
108 halfcell, glass/glass, N-Type TOPCon



German-Australian-Engineering

The advantages:

- 30 Years** 30 years Manufacturer's Product Warranty
- 30 Years** 30 years Performance guarantee
- +30%** Up to 30 % more power output by Bifacial-Technology
- TOP** More performance through innovative N-Type TOPCon-Technology
- Safe** Increased safety through improved fire protection

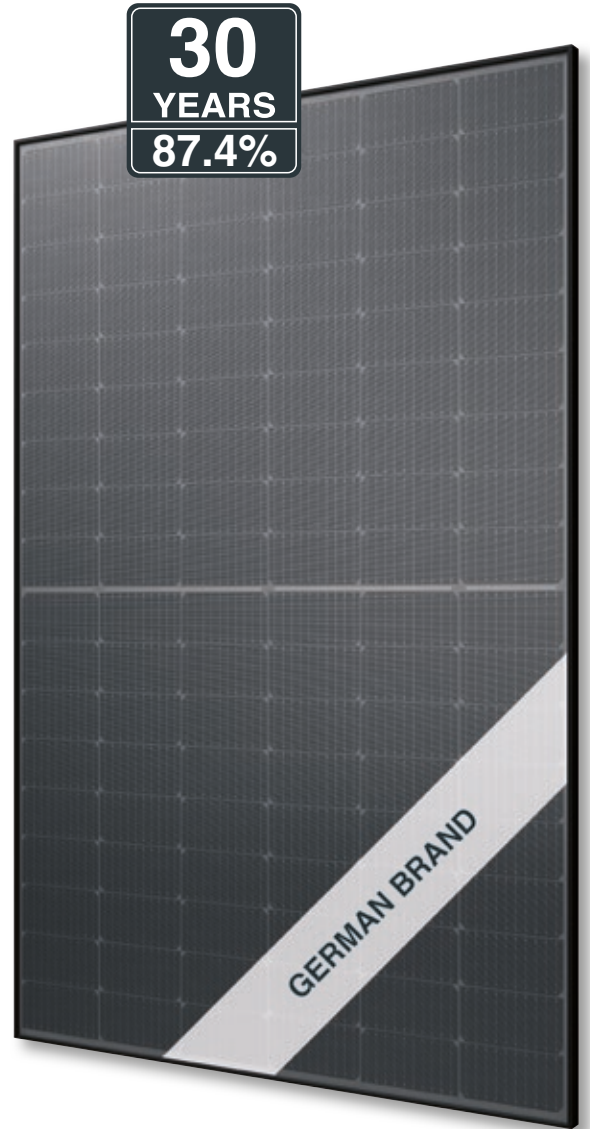
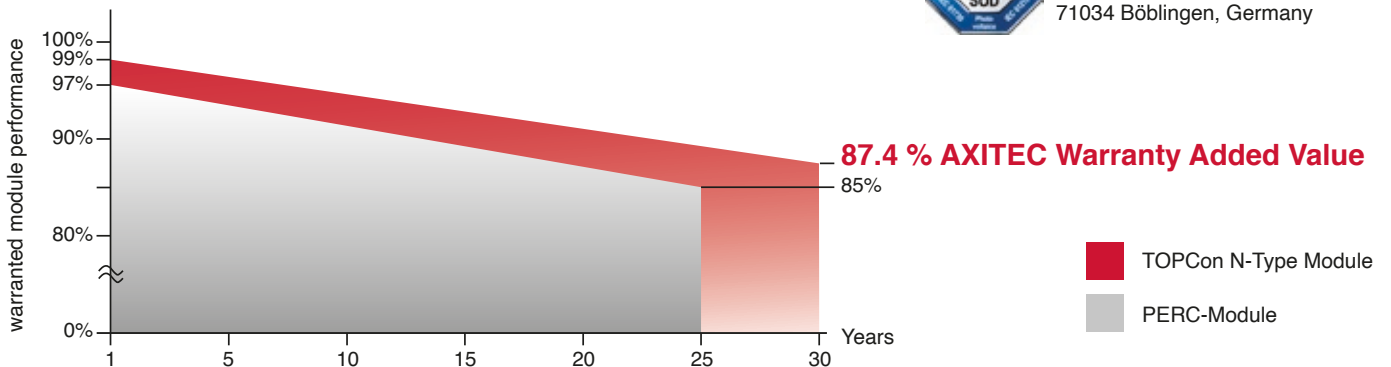


Fig. similar 108TGBAUS231016A

### Exclusive linear AXITEC high performance guarantee!



Lisence holder:  
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## AXIbiperfect GXXL WB 440 Wp

**Electrical data** (at standard conditions (STC) irradiance 1000 watt/m<sup>2</sup>, spectrum AM 1.5 at a cell temperature of 25°C)

Type	AC-440TGB/108WBA			
Nominal output (± 3 %)	<b>440 Wp</b>			
Nominal voltage U <sub>mpp</sub>	33.44 V			
Nominal current I <sub>mpp</sub>	13.16 A			
Short circuit current I <sub>sc</sub> (± 3 %)	13.59 A			
Open circuit voltag U <sub>oc</sub> (± 3 %)	40.31 V			
Module conversion efficiency	22.53 %			

### Bifacial output - Backside Power gain

10% Power output	484.00 Wp			
Module Efficiency	24.79 %			
20% Power output	528.00 Wp			
Module Efficiency	27.04 %			
30% Power output	572.00 Wp			
Module Efficiency	29.29 %			

### Design

Frontside	1.6 mm hardened, low-reflection white glass
Backside	1.6 mm hardened glass, intercellular spaces white
Cells	108 N-Type TOPCon bifacial high efficiency cells
Frame	30 mm black aluminium frame

### Mechanical data

L x W x H	1722 x 1134 x 30 mm
Weight	21.3 kg with frame

### Mechanical load

Design load (pressure/suction)	3600 Pa / 1600 Pa
Test load (pressure/suction)	5400 Pa / 2400 Pa

### Power connection

Socket	Protection Class IP68
Wire	approx. 1.2 m, 4 mm <sup>2</sup>
Plug-in system	Stäubli MC4 PV-KST4-EVO 2 / PV-KBT4-EVO 2

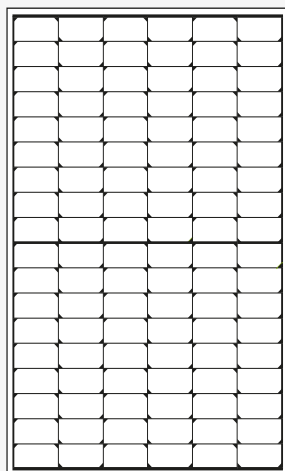
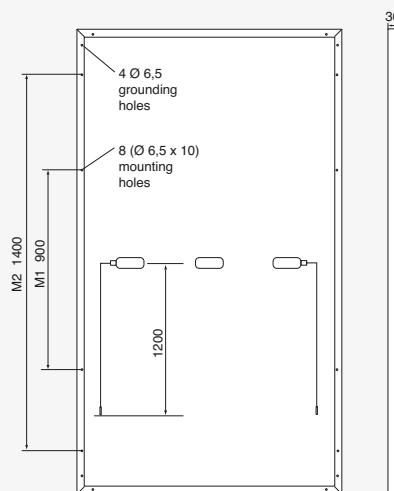


Fig. principle sketch



All dimensions in mm

### Limit values

System voltage	1500 VDC
Module Fire Performance	CLASS C
NOCT (nominal operating cell temperature)*	45°C +/-2K
Reverse current feed IR	30.0 A

Permissible operating temperature -40°C to 85°C / -40F to 185F

Bifaciality 80 % ± 5 %

(No external voltages greater than U<sub>oc</sub> may be applied to the module)

\* NOCT, irradiance 800 W/m<sup>2</sup>; AM 1.5; wind speed 1 m/s; Temperature 20°C

### Temperature coefficients

Voltage U <sub>oc</sub>	-0.26 %/K
Current I <sub>sc</sub>	0.046 %/K
Output P <sub>mpp</sub>	-0.31 %/K

### Low-light performance without Bifacial-effect

(Example for 440TGB/108WBA)

I-U characteristic curve	Current I <sub>pp</sub>	Voltage U <sub>pp</sub>
200 W/m <sup>2</sup>	2.69 A	32.18 V
400 W/m <sup>2</sup>	5.43 A	32.55 V
600 W/m <sup>2</sup>	8.11 A	32.81 V
800 W/m <sup>2</sup>	10.72 A	33.09 V
1000 W/m <sup>2</sup>	13.16 A	33.44 V

### Packaging

Module pieces per pallet	36
Module pieces per HC-container	936

country of origin:  
made in People's Republic of China

