

AXIbiperfect GXXL WB 430 - 435 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
- Wp** Guaranteed positive power tolerance from 0-5 Wp by individual measurement

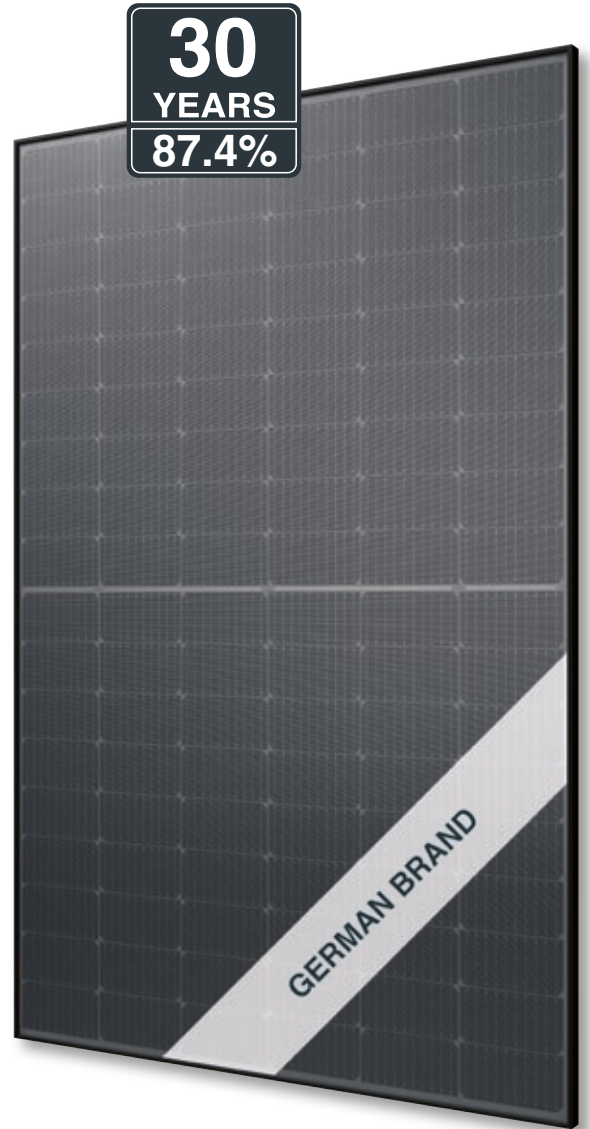
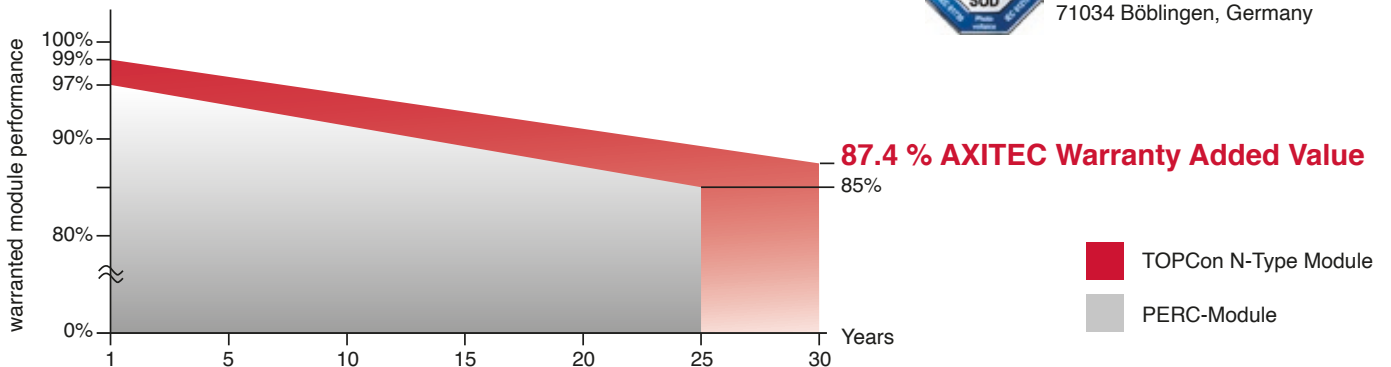


Fig. similar 108TGBAUS231016A

Exclusive linear AXITEC high performance guarantee!



Lisence holder:
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Electrical data (at standard conditions (STC) irradiance 1000 watt/m², spectrum AM 1.5 at a cell temperature of 25°C)

Type	AC-430TGB/108WBA	AC-435TGB/108WBA
Nominal output (± 3 %)	430 Wp	435 Wp
Nominal voltage U _{mpp}	32.85 V	33.14 V
Nominal current I _{mpp}	13.09 A	13.13 A
Short circuit current I _{sc} (± 3 %)	13.57 A	13.58 A
Open circuit voltag U _{oc} (± 3 %)	39.53 V	40.02 V
Module conversion efficiency	22.02 %	22.28 %

Bifacial output - Backside Power gain

10% Power output	473.00 Wp	478.50 Wp
Module Efficiency	24.22 %	24.50 %
20% Power output	516.00 Wp	522.00 Wp
Module Efficiency	26.42 %	26.73 %
30% Power output	559.00 Wp	565.50 Wp
Module Efficiency	28.63 %	28.96 %

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 ²
Plug-in system	Stäubli MC4 PV-KST4-EVO 2 / PV-KBT4-EVO 2

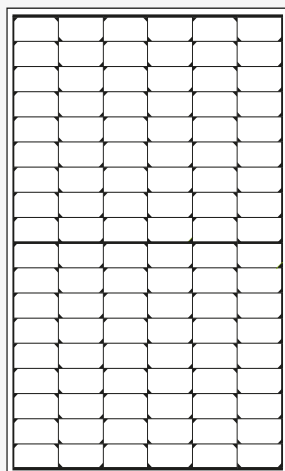
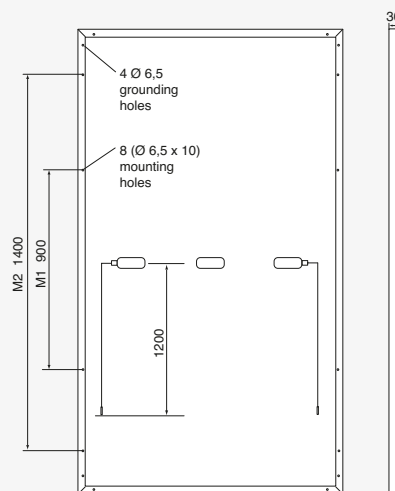


Fig. principle sketch



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_{oc} may be applied to the module)

* NOCT, irradiance 800 W/m²; AM 1.5; wind speed 1 m/s; Temperature 20°C

Temperature coefficients

Voltage U _{oc}	-0.26 %/K
Current I _{sc}	0.046 %/K
Output P _{mpp}	-0.31 %/K

Low-light performance without Bifacial-effect

(Example for 435TGB/108WBA)

I-U characteristic curve	Current I _{pp}	Voltage U _{pp}
200 W/m ²	2.68 A	31.89 V
400 W/m ²	5.41 A	32.26 V
600 W/m ²	8.09 A	32.51 V
800 W/m ²	10.69 A	32.79 V
1000 W/m ²	13.13 A	33.14 V

Packaging

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

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

