

## AXIbiperfect GXXL WB 470 Wp

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



German-Australian-Engineering

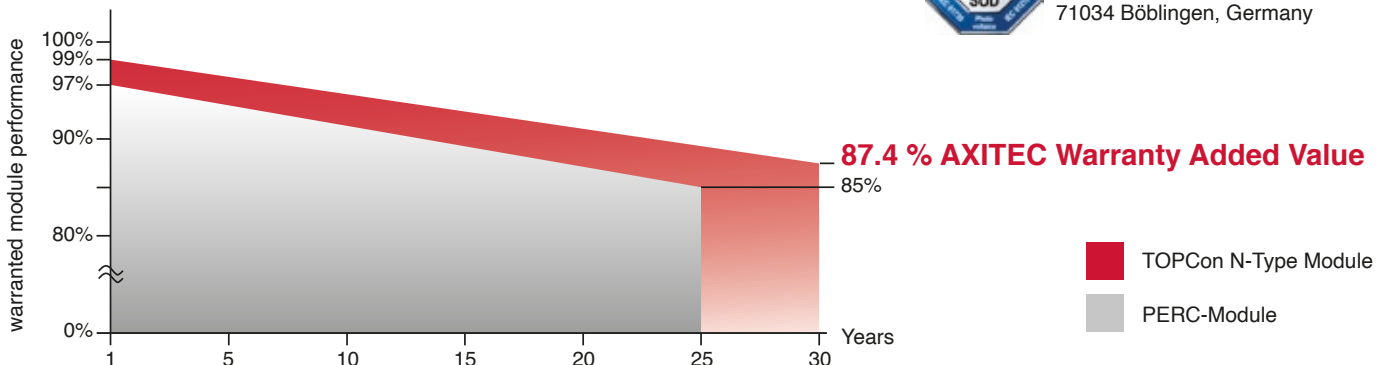
### The advantages:

- 30**  
Years 30 years Manufacturer's Product Warranty
- 30**  
Years 30 years Performance guarantee
- Up to 30 % more power output by Bifacial-Technology
- More performance through innovative N-Type TOPCon-Technology
- Increased safety through improved fire protection
- Guaranteed positive power tolerance from 0-5 Wp by individual measurement



Fig. similar 120TGBAUS231016A

### Exclusive linear AXITEC high performance guarantee!



Lisence holder:  
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## AXIbiperfect GXXL WB 470 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-470TGB/120WBA			
Nominal output (± 3 %)	<b>470 Wp</b>			
Nominal voltage U <sub>mpp</sub>	36.21 V			
Nominal current I <sub>mpp</sub>	12.98 A			
Short circuit current I <sub>sc</sub> (± 3 %)	13.57 A			
Open circuit voltag U <sub>oc</sub> (± 3 %)	43.17 V			
Module conversion efficiency	21.70 %			

### Bifacial output - Backside Power gain

10% Power output	517.00 Wp			
Module Efficiency	26.48 %			
20% Power output	564.00 Wp			
Module Efficiency	28.88 %			
30% Power output	611.00 Wp			
Module Efficiency	31.29 %			

### Design

Frontside	2.0 mm hardened, low-reflection white glass
Backside	2.0 mm hardened, low-reflection white glass
Cells	120 N-Type TOPCon bifacial high efficiency cells
Film	Composite film, intercellular spaces white
Frame	30 mm black aluminium frame

### Mechanical data

L x W x H	1910 x 1134 x 30 mm
Weight	27.3 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

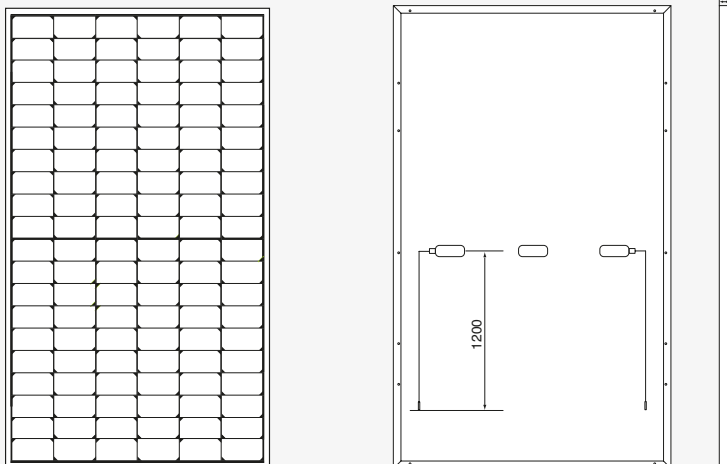


Fig. principle sketch

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 470TGB/120WBA)

I-U characteristic curve	Current I <sub>pp</sub>	Voltage U <sub>pp</sub>
200 W/m <sup>2</sup>	2.65 A	34.85 V
400 W/m <sup>2</sup>	5.35 A	35.25 V
600 W/m <sup>2</sup>	8.00 A	35.53 V
800 W/m <sup>2</sup>	10.57 A	35.83 V
1000 W/m <sup>2</sup>	12.98 A	36.21 V

### Packaging

Module pieces per pallet	36
Module pieces per HC-container	864

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

