

AXIbiperfect GXXL WB 415 - 430 Wp

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

The advantages:



30 years Manufacturer's warranty and Performance guarantee



Up to 30 % more power output by Bifacial-Technology



More performance through innovative N-Type TOPCon-Technology



PID reduced through glass/glass-Technology



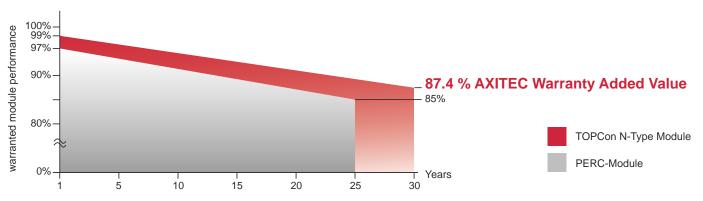
Increased safety through improved fire protection



Guaranteed positive power tolerance from 0-5 Wp by individual measurement



Exclusive linear AXITEC high performance guarantee!





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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)

Туре	AC-415TGB/108WB	AC-420TGB/108WB	AC-425TGB/108WB	AC-430TGB/108WB
Nominal output	415 Wp	420 Wp	425 Wp	430 Wp
Nominal voltage Umpp	31.80 V	32.00 V	32.20 V	32.40 V
Nominal current Impp	13.06 A	13.13 A	13.20 A	13.28 A
Short circuit current Isc	13.96 A	14.04 A	14.11 A	14.18 A
Open circuit voltag Uoc	37.70 V	37.90 V	38.10 V	38.30 V
Module conversion efficiency	21.25 %	21.51 %	21.76 %	22.02 %

Bifacial output - Backside Power gain

10% Power output	456.50 Wp	462.00 Wp	467.50 Wp	473.00 Wp
Module Effiency	23.38 %	23.66 %	23.94 %	24.22 %
20% Power output	498.00 Wp	504.00 Wp	510.00 Wp	516.00 Wp
Module Effiency	25.50 %	25.81 %	26.12 %	26.42 %
30% Power output	539.50 Wp	539.00 Wp	552.50 Wp	559.00 Wp
Module Effiency	27.63 %	27.96 %	28.29 %	28.63 %

Design

Frontside 1.6 mm hardened, low-reflection white glass Backside 1.6 mm hardened glass, cell spaces white Cells 108 N-Type TOPCon bifacial high efficiency cells

Frame 30 mm black aluminium frame

Mechanical data

LxWxH1722 x 1134 x 30 mm Weight 22.0 kg with frame

Mechanical load

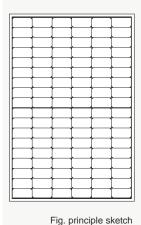
Design load (pressure/suction) 3600 Pa / 1600 Pa Test load (pressure/suction) 5400 Pa / 2400 Pa

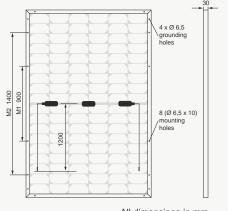
Power connection

Protection Class IP68, 3 bypass diodes Socket

Wire approx. 1.2 m, 4 mm²

IP68, MC4-EVO 2, MC4-EVO 2A, JM608 Plug-in system





All dimensions in mm

Limit values

1500 VDC System voltage 45°C +/-2K NOCT (nominal operating cell temperature)* 25.0 A Reverse current feed IR

Permissible operating

-40°C to 85°C / -40F to 185F temperature Bifaciality 80 % ± 5 % Fire class / Protection class C (UL790) / II

(No external voltages greater than Uoc 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 Uoc -0.26 %/K Current Isc 0.046 %/K Output Pmpp -0.31 %/K

Low-light performance without Bifacial-effect

(Example for 430TGB/108WB)

I-U characteristic curve	Current Ipp	Voltage Upp
200 W/m ²	2.71 A	31.18 V
400 W/m ²	5.48 A	31.54 V
600 W/m ²	8.18 A	31.79 V
800 W/m ²	10.82 A	32.06 V
1000 W/m ²	13.28 A	32.40 V

Packaging

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

