

AXIbiperfect GL WB 430 - 450 Wp

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

The advantages:

30 years Manufacturer's warranty

30 years 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



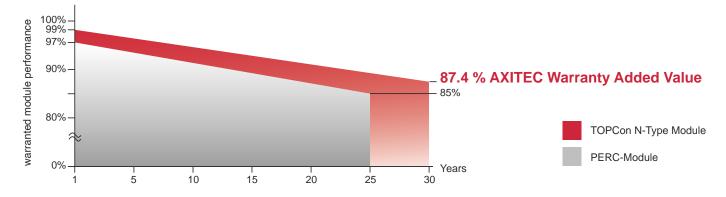
Increased safety through improved fire protection



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-430TGB/108WB	AC-435TGB/108WB	AC-440TGB/108WB	AC-445TGB/108WB	AC-450TGB/108WB
Nominal output	430 Wp	435 Wp	440 Wp	445 Wp	450 Wp
Nominal voltage Umpp	32.85 V	33.14 V	33.44 V	33.75 V	34.05 V
Nominal current Impp	13.09 A	13.13 A	13.16 A	13.19 A	13.22 A
Short circuit current Isc	13.57 A	13.58 A	13.59 A	13.6 A	13.61 A
Open circuit voltag Uoc	39.53 V	40.02 V	40.31 V	40.60 V	41.90 V
Module conversion efficiency	21.52 %	21.77 %	22.02 %	22.27 %	22.52 %
Bifacial output - Backside Power g	ain				
10% Power output	473 Wp	479 Wp	484 Wp	490 Wp	495 Wp
Module Effiency	23.67 %	23.95 %	24.22 %	24.50 %	24.77 %
20% Power output	516 Wn	522 Wn	528 Wn	534 Wn	540 Wn

26 12 %

566 Wp

28.30 %

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

25 82 %

559 Wp

27.98 %

Frame 30 mm black aluminium frame

Mechanical data

Module Effiency

Module Effiency

30% Power output

L x W x H 1762 x 1134 x 30 mm Weight 21.7 kg with frame

Mechanical load

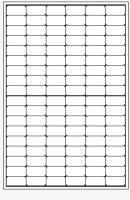
Design load (pressure/suction) 3600 Pa / 1600 Pa Test load (pressure/suction) 5400 Pa / 2400 Pa

Power connection

Socket Protection Class IP68, 3 bypass diodes

Wire approx. 1.2 m, 4 mm²

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



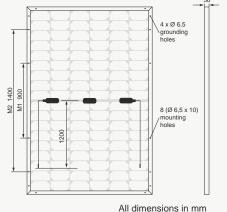


Fig. principle sketch All dimensions in n

Limit values

26 42 %

572 Wp

28 63 %

System voltage 1500 VDC

NOCT (nominal operating cell temperature)* 45°C +/-2K

Reverse current feed IR 25.0 A

26 73 %

579 Wp

28.95 %

27 03 %

585 Wp

29.28 %

Permissible operating

temperature -40°C to 85°C / -40F to 185F Bifaciality 80 % \pm 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 450TGB/108WB)

I-U characteristic curve	Current Ipp	Voltage Upp
200 W/m ²	2.70 A	32.77 V
400 W/m ²	5.45 A	33.15 V
600 W/m ²	8.14 A	33.41 V
800 W/m ²	10.77 A	33.69 V
1000 W/m ²	13.22 A	34.05 V

Packaging

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

