

AXIbiperfect GXXL WB 440 Wp

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



German-Australian-Engineering

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

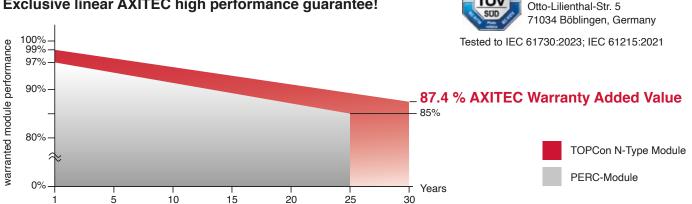


Lisence holder:

AXITEC Energy GmbH & Co. KG

144TGBAUS240909A

Exclusive linear AXITEC high performance guarantee!





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Electrical data

at standard conditions (STC): irradiance 1000 W/m². spectrum AM 1.5 at a cell temperature of 25°C

Type	AC-440TGB/108WBA		
Nominal output	440 Wp		
Nominal voltage Umpp	33.49 V		
Nominal current Impp	13.14 A		
Short circuit current Isc	13.83 A		
Open circuit voltag Uoc	40.28 V		
Module conversion efficiency	22.53 %		

at BNPI test conditions: irradiance frontside 1000 W/m², backside 135 W/m², with spectrum AM 1,5 at a cell temperature of 25°C

Nominal output Pmpp	485 Wp		
Short circuit current Isc	15.25 A		
Open circuit voltag Uoc	40.28 V		

Bifacial coefficients: $\phi Uoc~0.98\pm5\%$; $\phi Isc~0.80\pm10\%$; $\phi Pmpp~0.80\pm10\%$

with 5 % bifacial gain:

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Nominal output Pmpp	462 Wp		
Nominal voltage Umpp	33.49 V		
Nominal current Impp	13.80 A		
Short circuit current Isc	14.52 A		
Open circuit voltag Uoc	40.28 V		

^{*}The bifacial gain is the additional gain from the back side of PV. It depends on the mounting method, orientation, tilt angle of the PV module and the albedo of the ground.

Design

Frontside 1.6 mm low-reflection white glass
Backside 1.6 mm glass, cell 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

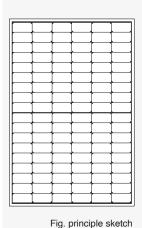
Design load (pressure/suction) 3600 Pa / 1600 Pa Test load (pressure/suction) 5400 Pa / 2400 Pa

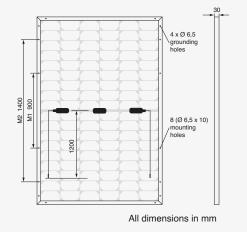
Power connection

Socket Protection Class IP68, 3 bypass diodes

Wire approx. 1.2 m, 4 mm²

Plug-in system IP68, PV-KST4-EVO2A/xy,PV-KBT4-EVO2A/xy





Limit values

System voltage 1500 VDC

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

Max Series Fuse Current 30.0 A

Permissible operating temp. -40°C to 85°C / -40F to 185F 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 %/°C

 Current Isc
 0.046 %/°C

 Output Pmpp
 -0.31 %/°C

Low-light performance without Bifacial-effect

(Example for AC-440TGB/108WBA)

I-U characteristic curve	Current Ipp	Voltage Upp
200 W/m ²	2.87 A	32.23 V
400 W/m ²	5.42 A	32.60 V
600 W/m ²	8.09 A	32.88 V
800 W/m ²	10.70 A	33.14 V
1000 W/m ²	13 14 A	33 49 V

Packaging

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

country of origin:

made in People's Republic of China

