AXIblackbiplus BC GR

480 - 495 Wp

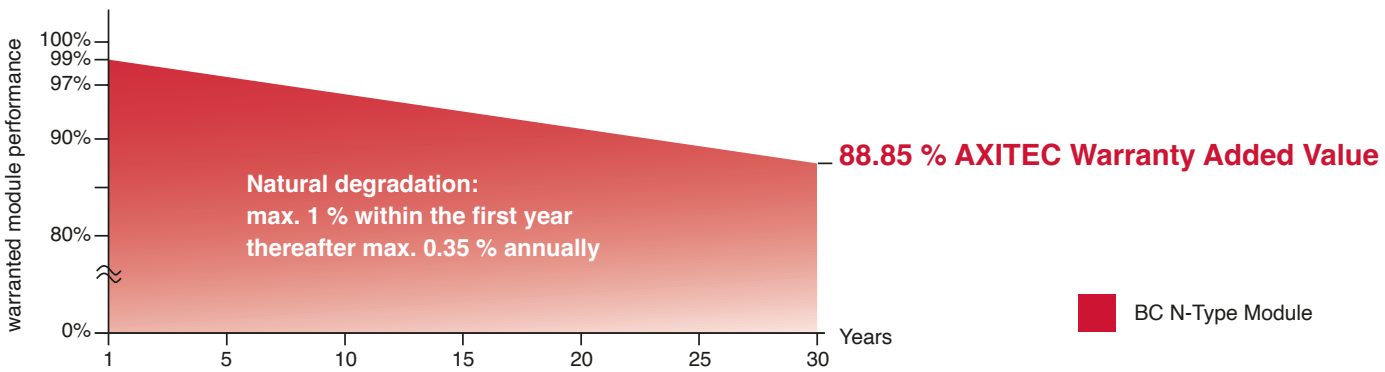
High-performance bifacial solar module
108 half-cell, glass-glass, N-type back-contact

Fig. similar 108BGBEN260505A-16871

The advantages:

- 30 years Manufacturer's warranty and Performance guarantee
- Up to 30 % more power output by Bifacial-Technology
- Highest efficiency up to 24.25 %
- Positive power sorting from 0-5 Wp
- 100 % visual electroluminescence inspection in production
- Increased performance through innovative N-Type back-end contacting (ABC)

Exclusive linear AXITEC high performance guarantee!



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AXIblackbiplus BC GR 480 - 495 Wp

Electrical data

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

Type	AC-480BGB/108BB	AC-485BGB/108BB	AC-490BGB/108BB	AC-495BGB/108BB	
Nominal output	**480 Wp**	**485 Wp**	**490 Wp**	**495 Wp**	
Nominal voltage Umpp	33.84 V	33.94 V	34.04 V	34.14 V	
Nominal current Impp	14.19 A	14.30 A	14.40 A	14.50 A	
Short circuit current Isc	14.96 A	15.03 A	15.10 A	15.17 A	
Open circuit voltag Uoc	40.76 V	40.89 V	41.02 V	41.15 V	
Module conversion efficiency	23.52 %	23.76 %	24.01 %	24.25 %	

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	520 Wp	525 Wp	530 Wp	535 Wp	
Short circuit current Isc	16.16 A	16.26 A	16.36 A	16.46 A	
Open circuit voltag Uoc	40.73 V	40.83 V	40.93 V	41.03 V	

Bifacial coefficients: ϕUoc 1,00±5%; ϕIsc 0,70±5%; ϕPmpp 0,70±5%

Design

Frontside	2,0 mm semi tempered AR Solarglas
Backside	2.0 mm glass, cell spaces black
Cells	108 N-Type bifacial BC high efficiency cells
Frame	30 mm black aluminium frame

Mechanical data

L x W x H	1800 x 1134 x 30 mm
Weight	24.8 kg with frame

Mechanical load

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

* depending on the type of installation according to the installation instructions

Power connection

Socket	Protection Class IP68, 3 bypass diodes
Wire	approx. 1.2 m, 4 mm²
Plug-in system	IP68, MC4-EVO 2A

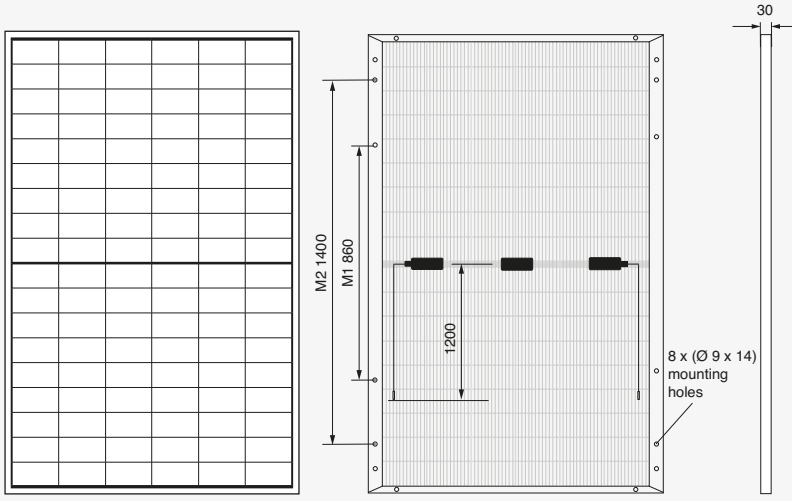

Fig. principle sketch

All dimensions in mm

Limit values

System voltage	1500 VDC
NOCT (nominal operating cell temperature)*	45°C +/-2K
Reverse current feed IR	25.0 A
Permissible operating temperature	-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	-0.22 %/K
Current Isc	0.05 %/K
Output Pmpp	-0.26 %/K

Low-light performance (Example for AC-495BGB/108BB)

I-U characteristic curve	Current Ipp	Voltage Upp
200 W/m²	2.96 A	32.86 V
400 W/m²	5.98 A	33.24 V
600 W/m²	8.93 A	33.49 V
800 W/m²	11.81 A	33.78 V
1000 W/m²	14.50 A	34.14 V

Packaging

Module pieces per pallet	37
Module pieces per HC-container	888