AXIworldbiperfect GXQ WS

710 - 720 Wp

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

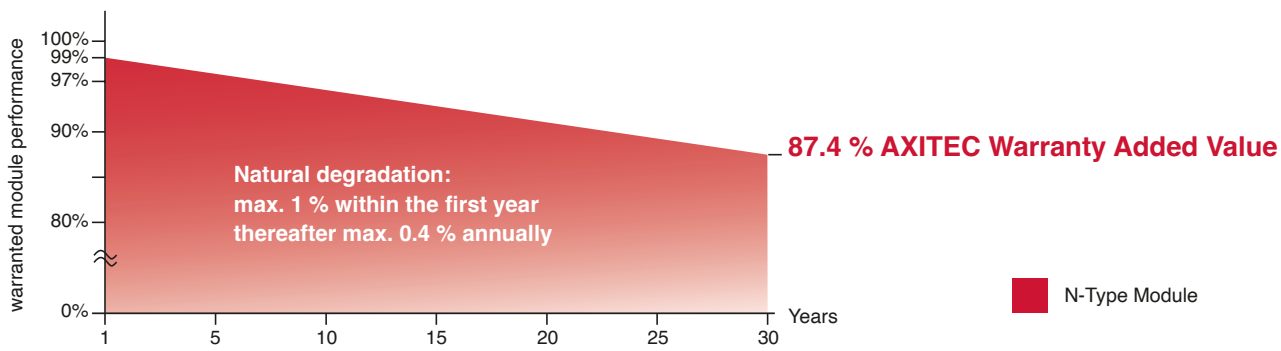


Fig. similar 132TGBEN260707A-27/1

The advantages:

- 30 Years — 30 years Manufacturer's warranty and Performance guarantee
- +30% — Up to 30 % more power output by Bifacial-Technology
- TOP — More performance through innovative N-Type-Technology
- PID less — PID reduced through glass/glass-Technology
- Safe — Increased safety through improved fire protection
- Wp — Positive power sorting from 0-5 Wp

Exclusive linear AXITEC high performance guarantee!



AXITEC

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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-710TGB/132WS	AC-715TGB/132WS	AC-720TGB/132WS		
Nominal output Pmpp	**710 Wp**	**715 Wp**	**720 Wp**		
Nominal voltage Umpp	40.79 V	40.96 V	41.12 V		
Nominal current Impp	17.41 A	17.46 A	17.51 A		
Short circuit current Isc	18.52 A	18.58 A	18.64 A		
Open circuit voltag Uoc	48.51 V	48.60 V	48.69 V		
Module conversion efficiency	22.86 %	23.02 %	23.18 %		

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	783 Wp	788 Wp	794 Wp		
Short circuit current Isc	20.43 A	20.49 A	20.55 A		
Open circuit voltag Uoc	48.51 V	48.60 V	48.69 V		

Bifacial coefficients: φUoc 0,98±5%; φIsc 0,80±10%; φPmpp 0,80±10%

Design

Frontside	2.0 mm semi tempered AR Solar glass
Backside	2.0 mm glass, cell spaces white
Cells	132 N-Type bifacial high efficiency cells
Frame	33 mm silver aluminium frame

Mechanical data

L x W x H	2384 x 1303 x 33 mm
Weight	37.5 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. 1.3 m, 4 mm²
Plug-in system	IP68, MC4-EVO 2A

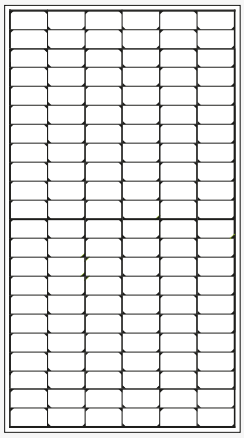
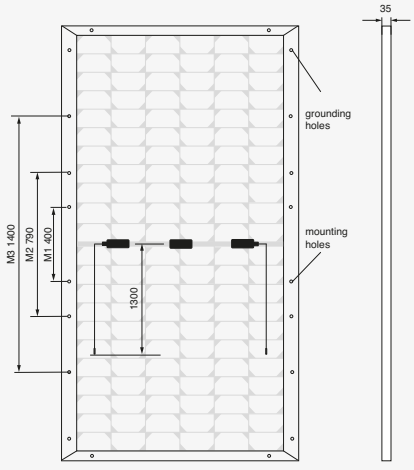


Fig. principle sketch



All dimensions in mm

Limit values

System voltage	1500 VDC
NOCT (nominal operating cell temperature)*	45°C +/-2K
Reverse current feed IR	35.0 A
Permissible operating temperature	-40°C to 85°C / -40F to 185F
Fire class / Protection class	C (UL790) / II
Hail resistance	HW3 (Ø 30 mm, 23.6 m/s)

(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 AC-720TGB/132WS)

I-U characteristic curve	Current Ipp	Voltage Upp
200 W/m²	3.58 A	39.57 V
400 W/m²	7.22 A	40.03 V
600 W/m²	10.79 A	40.34 V
800 W/m²	14.26 A	40.69 V
1000 W/m²	17.51 A	41.12 V

Packaging

Module pieces per pallet	33
Module pieces per HC-container	594

Technical data are subject to change without prior notice. errors excepted. The measurement tolerances are +/-3%. Please be aware: All technical data provided in our data sheets are property of Axitec Energy GmbH & Co. KG and intended for information purposes for our customers only. We cannot accept any guarantee of completeness or accuracy. These data are prohibited for any kind of commercial use.