

AXIbiperfect GXXL TB Extreme 570 - 585 Wp

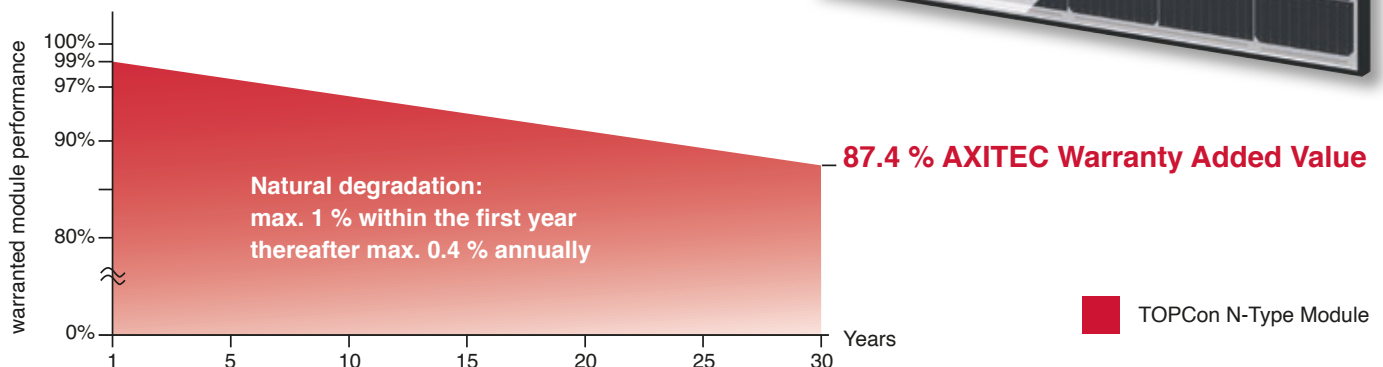
High performance bifacial solar module
144 halfcell, glass/glass, N-Type TOPCon

The advantages:

- 30 Years** 30 years Manufacturer's warranty and Performance guarantee
- +30%** Up to 30 % more power output by Bifacial-Technology
- PID less** PID reduced through glass/glass-Technology
- + Wp** Guaranteed positive power tolerance from 0-5 Wp by individual measurement
- 3000 m** Suitable for extreme weather conditions and alpine applications up to 3000 m
- 35 mm** High stability thanks to reinforced frame design



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

Type	AC-570TGB/144TB-ALP	AC-575TGB/144TB-ALP	AC-580TGB/144TB-ALP	AC-585TGB/144TB-ALP
Nominal output	570 Wp	575 Wp	580 Wp	585 Wp
Nominal voltage U _{mpp}	43.51 V	43.73 V	43.94 V	44.15 V
Nominal current I _{mpp}	13.10 A	13.15 A	13.20 A	13.25 A
Short circuit current I _{sc}	13.99 A	14.05 A	14.11 A	14.17 A
Open circuit voltage U _{oc}	51.41 V	51.63 V	52.03 V	52.10 V
Module conversion efficiency	21.25 %	21.44 %	21.63 %	21.81 %

at BNPI test conditions: irradiance frontside 1000W/m², backside 135W/m², with spectrum AM 1.5 at a cell temperature of 25°C

Nominal output P _{mpp}	628 Wp	634 Wp	640 Wp	645 Wp
Short circuit current I _{sc}	15.43 A	15.49 A	15.56 A	15.62 A
Open circuit voltage U _{oc}	51.41 V	51.63 V	52.03 V	52.10 V

Bifacial coefficients: ϕU_{oc} 0.98±5%; ϕI_{sc} 0.80±10%; ϕP_{mpp} 0.80±10%

Design

Frontside	2,8 mm tempered AR Solar glass
Backside	2,8 mm tempered Solar glass, cell spaces transparent
Cells	144 N-Type TOPCon bifacial high efficiency cells
Frame	35 mm black aluminium frame

Mechanical data

L x W x H	2324 x 1154 x 35 mm
Weight	43.0 kg with frame

Mechanical load

Design load (pressure/suction) **5600 Pa / 4400 Pa ***

Test load (pressure/suction) **8400 Pa / 6600 Pa ***

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

Power connection

Socket	Protection Class IP68, 3 bypass diodes
Wire	approx. 1,65 m, 4 mm ²
Plug-in system	IP68, MC4-EVO 2A

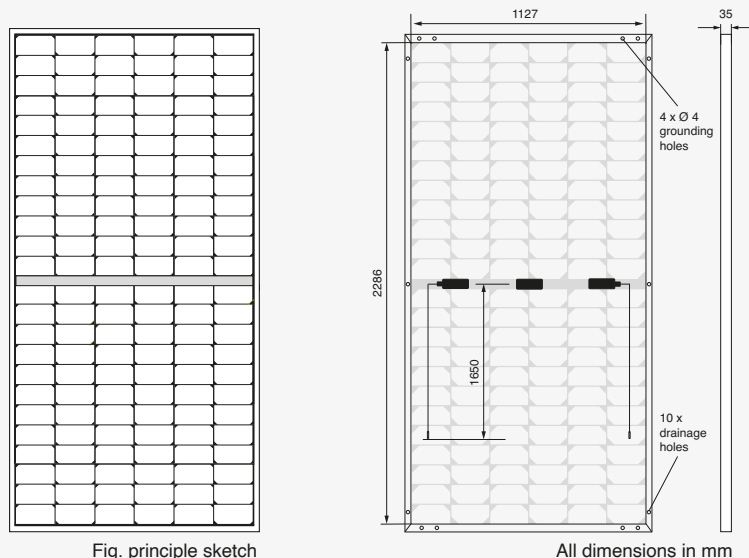


Fig. principle sketch

All dimensions in mm

Limit values

System voltage	1500 VDC
NOCT (nominal operating cell temperature)*	45°C +/-2K
Reverse current feed IR	30.0 A

Permissible operating temperature	-40°C to 85°C / -40°F to 185°F
Fire class / Protection class	C (UL790) / II
Hail resistance	HW4 (Ø 40 mm, 27,5 m/s)
Maximum installation height	3000 m

(No external voltages greater than U_{oc} 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 U _{oc}	-0.26 %/K
Current I _{sc}	0.046 %/K
Output P _{mpp}	-0.31 %/K

Low-light performance without Bifacial-effect

(Example for AC-585TGB/144TB-ALP)

I-U characteristic curve	Current I _{pp}	Voltage U _{pp}
200 W/m ²	2.71 A	42.50 V
400 W/m ²	5.46 A	42.99 V
600 W/m ²	8.16 A	43.33 V
800 W/m ²	10.79 A	43.70 V
1000 W/m ²	13.25 A	44.15 V

Packaging

Module pieces per pallet	31
Module pieces per HC-container	496

