

AXIbiperfect GXXL TS

560 - 580 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
- 
TOP
More performance through innovative N-Type TOPCon-Technology
- 
PID less
PID reduced through glass/glass-Technology
- 
Safe
Increased safety through improved fire protection
- 
+ Wp
Guaranteed positive power tolerance from 0-5 Wp by individual measurement



Exclusive linear AXITEC high performance guarantee!

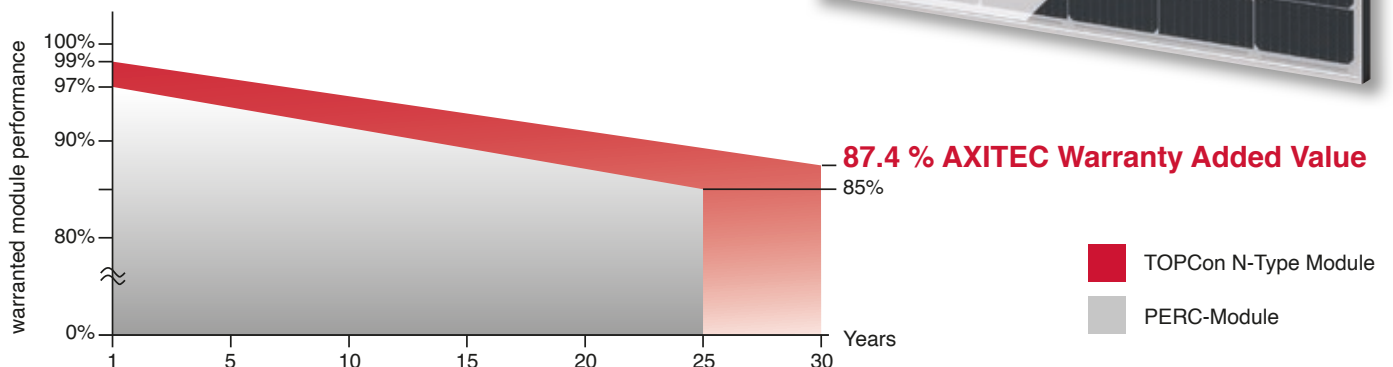


Fig. similar 144TGBEN240214A

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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-560TGB/144TS	AC-565TGB/144TS	AC-570TGB/144TS	AC-575TGB/144TS	AC-580TGB/144TS
Nominal output	560 Wp	565 Wp	570 Wp	575 Wp	580 Wp
Nominal voltage U _{mpp}	42.40 V	42.60 V	42.80 V	43.00 V	43.20 V
Nominal current I _{mpp}	13.21 A	13.27 A	13.32 A	13.38 A	13.43 A
Short circuit current I _{sc}	13.97 A	14.03 A	14.08 A	14.14 A	14.18 A
Open circuit voltag U _{oc}	50.60 V	50.80 V	51.00 V	51.20 V	51.40 V
Module conversion efficiency	21.68 %	21.87 %	22.07 %	22.26 %	22.45 %

Bifacial output - Backside Power gain

10% Power output	616.00 Wp	621.50 Wp	627.00 Wp	632.50 Wp	638.00 Wp
Module Efficiency	23.85 %	24.06 %	24.27 %	24.48 %	24.70 %
20% Power output	672.00 Wp	678.00 Wp	684.00 Wp	690.00 Wp	696.00 Wp
Module Efficiency	26.01 %	26.25 %	26.48 %	26.71 %	26.94 %
30% Power output	728.00 Wp	734.50 Wp	741.00 Wp	747.50 Wp	754.00 Wp
Module Efficiency	28.18 %	28.43 %	28.68 %	28.94 %	29.19 %

Design

Frontside	2.0 mm low-reflection white glass
Backside	2.0 mm glass, cell spaces transparent
Cells	144 N-Type TOPCon bifacial high efficiency cells
Frame	30 mm silver aluminium frame

Mechanical data

L x W x H	2278 x 1134 x 30 mm
Weight	31.2 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 mm ²
Plug-in system	IP68, MC4-EVO 2, MC4-EVO 2A, JM608

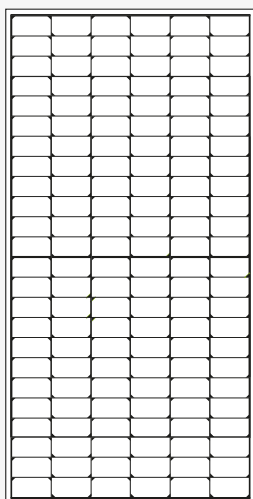
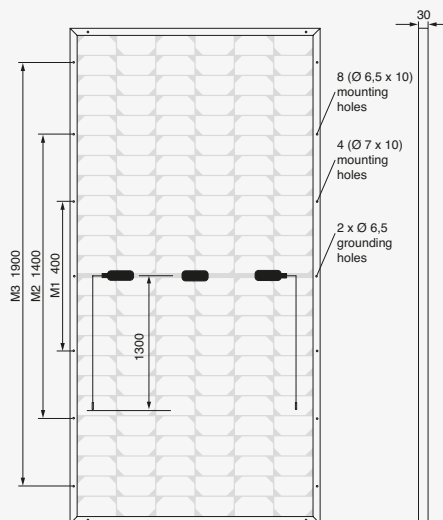


Fig. principle sketch



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 / -40F to 185F
Bifaciality	80 % ± 5 %
Fire class / Protection class	C (UL790) / II

(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 (Example for AC-580TGB/144TS)

I-U characteristic curve	Current I _{pp}	Voltage U _{pp}
200 W/m ²	2.74 A	41.58 V
400 W/m ²	5.54 A	42.06 V
600 W/m ²	8.27 A	42.38 V
800 W/m ²	10.94 A	42.75 V
1000 W/m ²	13.43 A	43.20 V

Packaging

Module pieces per pallet	36
Module pieces per HC-container	720

