

AXIbiperfect GQ TS 605 - 625 Wp

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

The advantages:







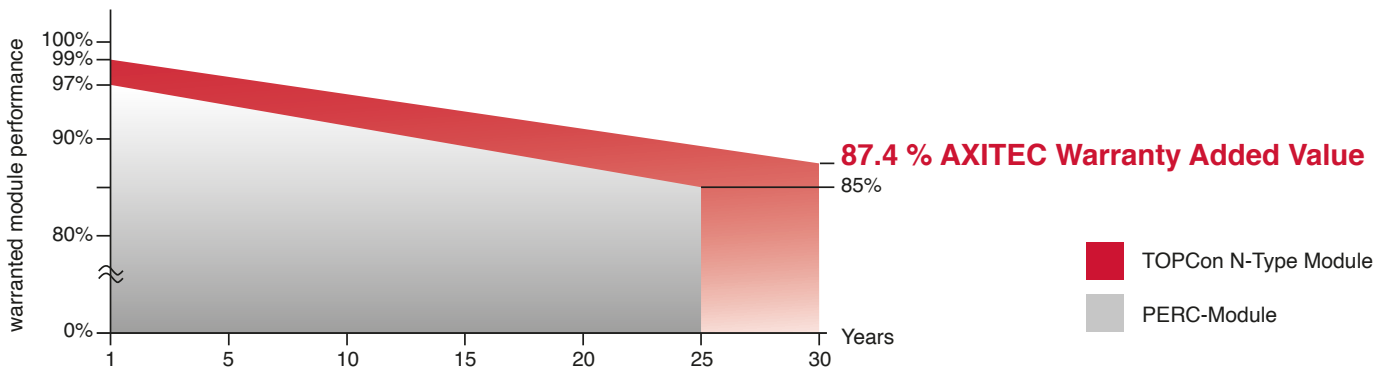
- 
30 Years
 30 years Manufacturer's warranty and Performance guarantee
- 
+30%
 Up to 30 % more power output by Bifacial-Technology
- 
TOP
 More performance through innovative N-Type TOPCon-Technology
- 
PID less
 PID reduced through glass/glass-Technology
- 
Safe
 Increased safety through improved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



Fig. similar 132TGBEN24028A

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-605TGB/132TS	AC-610TGB/132TS	AC-615TGB/132TS	AC-620TGB/132TS	AC-625TGB/132TS
Nominal output	605 Wp	610 Wp	615 Wp	620 Wp	625 Wp
Nominal voltage U _{mpp}	40.31 V	40.46 V	40.60 V	40.74 V	40.88 V
Nominal current I _{mpp}	15.01 A	15.08 A	15.15 A	15.22 A	15.29 A
Short circuit current I _{sc}	15.90 A	15.96 A	16.02 A	16.08 A	16.14 A
Open circuit voltag U _{oc}	48.48 V	48.68 V	48.88 V	49.08 V	49.28 V
Module conversion efficiency	22.40 %	22.58 %	22.77 %	22.95 %	23.14 %

Bifacial output - Backside Power gain

10% Power output	666 Wp	671 Wp	677 Wp	682 Wp	688 Wp
Module Efficiency	24.64 %	24.84 %	25.04 %	25.25 %	25.45 %
20% Power output	726 Wp	732 Wp	738 Wp	744 Wp	750 Wp
Module Efficiency	26.88 %	27.10 %	27.32 %	27.54 %	27.77 %
30% Power output	787 Wp	793 Wp	800 Wp	806 Wp	813 Wp
Module Efficiency	29.12 %	29.36 %	29.60 %	29.84 %	30.08 %

Design

Frontside	2.0 mm low-reflection white glass
Backside	2.0 mm glass, cell spaces transparent
Cells	132 N-Type TOPCon bifacial high efficiency cells
Frame	30 mm silver aluminium frame

Mechanical data

L x W x H	2382 x 1134 x 30 mm
Weight	33.6 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, JM608

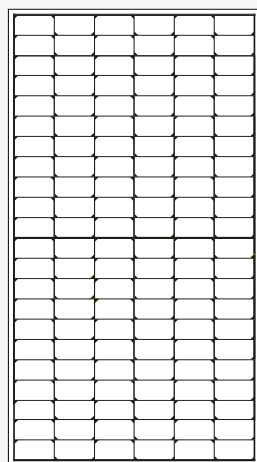
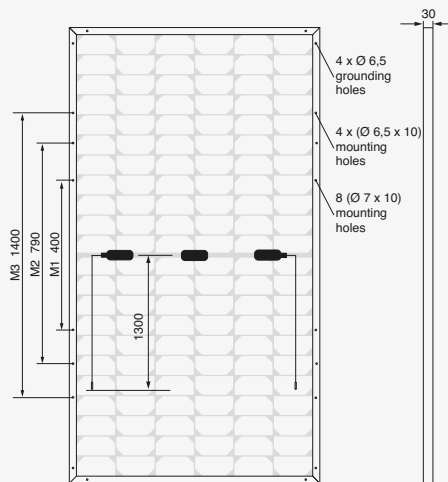


Fig. principle sketch



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}	-0.24 %/K
Current I _{sc}	0.045 %/K
Output P _{mpp}	-0.29 %/K

Low-light performance without Bifacial-effect

(Example for AC-625TGB/132TS)

I-U characteristic curve	Current I _{pp}	Voltage U _{pp}
200 W/m ²	3.12 A	39.34 V
400 W/m ²	6.30 A	39.80 V
600 W/m ²	9.42 A	40.11 V
800 W/m ²	12.45 A	40.45 V
1000 W/m ²	15.29 A	40.88 V

Packaging

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

