

## AXIbiperfect GQ TS

### 600 - 620 Wp

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

#### The advantages:







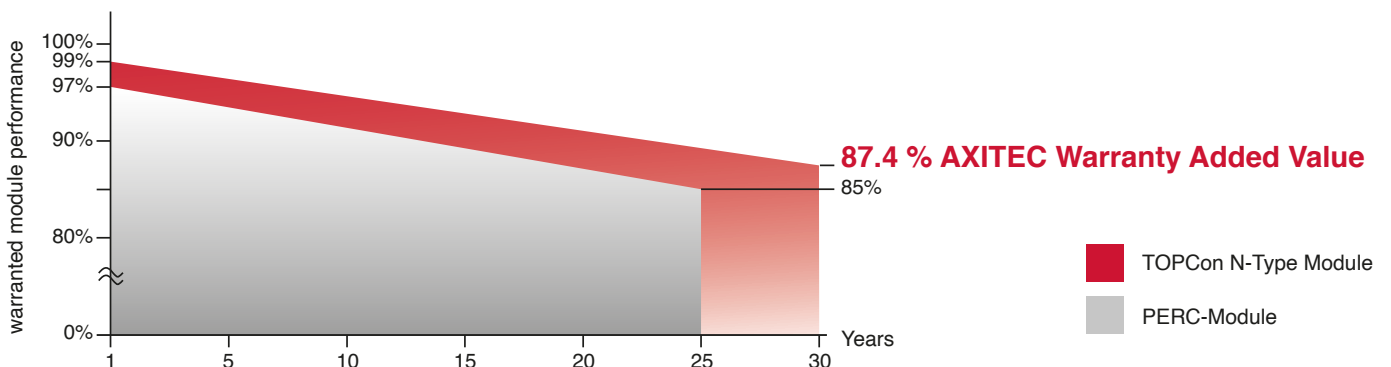
-  30 years Manufacturer's warranty and Performance guarantee
-  Up to 30 % more power output by Bifacial-Technology
-  More performance through innovative N-Type TOPCon-Technology
-  PID reduced through glass/glass-Technology
-  Increased safety through improved fire protection
-  Guaranteed positive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



Fig. similar 132TGBEN240418A

#### Exclusive linear AXITEC high performance guarantee!



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### Electrical data

at standard conditions (STC): irradiance 1000 watt/m<sup>2</sup>, spectrum AM 1.5 at a cell temperature of 25°C

Type	AC-600TGB/132TS	AC-605TGB/132TS	AC-610TGB/132TS	AC-615TGB/132TS	AC-620TGB/132TS
Nominal output P <sub>mpp</sub>	<b>600 Wp</b>	<b>605 Wp</b>	<b>610 Wp</b>	<b>615 Wp</b>	<b>620 Wp</b>
Nominal voltage U <sub>mpp</sub>	39.82 V	40.02 V	40.22 V	40.42 V	40.61 V
Nominal current I <sub>mpp</sub>	15.07 A	15.12 A	15.17 A	15.22 A	15.27 A
Short circuit current I <sub>sc</sub>	16.01 A	16.07 A	16.13 A	16.19 A	16.24 A
Open circuit voltag U <sub>oc</sub>	47.43 V	47.65 V	47.88 V	48.10 V	48.32 V
Module conversion efficiency	22.21 %	22.40 %	22.58 %	22.77 %	22.95 %

at BNPI test conditions: irradiance frontside 1000W/m<sup>2</sup>, backside 135W/m<sup>2</sup>, with spectrum AM 1,5 at a cell temperature of 25°C

Nominal output P <sub>mpp</sub>	661 Wp	667 Wp	673 Wp	678 Wp	684 Wp
Short circuit current I <sub>sc</sub>	17.65 A	17.72 A	17.78 A	17.85 A	17.91 A
Open circuit voltag U <sub>oc</sub>	47.43 V	47.65 V	47.88 V	48.10 V	48.32 V

Bifacial coefficients: φU<sub>oc</sub> 0,98±5%; φI<sub>sc</sub> 0,80±10%; φP<sub>mpp</sub> 0,80±10%

### 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	32.5 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 mm <sup>2</sup>
Plug-in system	IP68, JM608

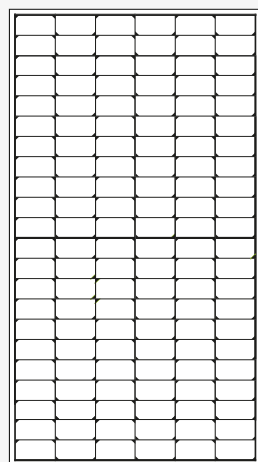
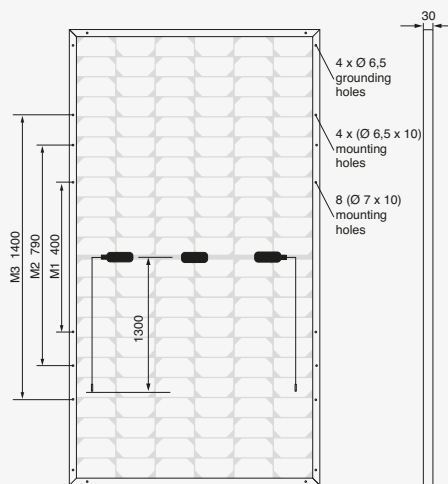


Fig. principle sketch



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
Fire class / Protection class	C (UL790) / II

(No external voltages greater than U<sub>oc</sub> may be applied to the module)

\* NOCT, irradiance 800 W/m<sup>2</sup>; AM 1.5; wind speed 1 m/s; Temperature 20°C

### Temperature coefficients

Voltage U <sub>oc</sub>	-0.26 %/K
Current I <sub>sc</sub>	0.046 %/K
Output P <sub>mpp</sub>	-0.31 %/K

### Low-light performance without Bifacial-effect

(Example for AC-620TGB/132TS)

I-U characteristic curve	Current I <sub>pp</sub>	Voltage U <sub>pp</sub>
200 W/m <sup>2</sup>	3.12 A	39.08 V
400 W/m <sup>2</sup>	6.30 A	39.53 V
600 W/m <sup>2</sup>	9.41 A	39.84 V
800 W/m <sup>2</sup>	12.44 A	40.18 V
1000 W/m <sup>2</sup>	15.27 A	40.61 V

### Packaging

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

