



## AXIbiperfect GXXL TS

### 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
- 
**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!

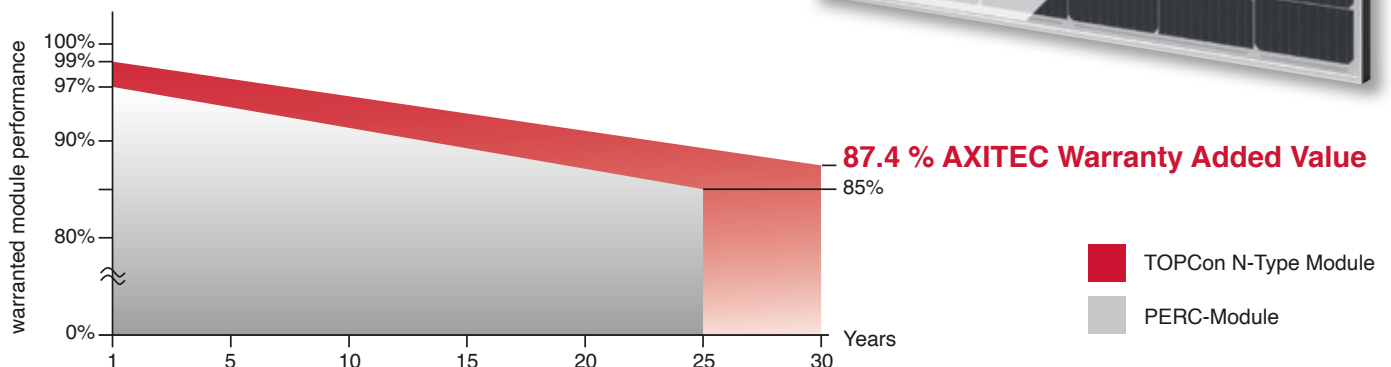


Fig. similar 144TGBEN240604A

## AXIbiperfect GXXL TS 570 - 585 Wp

### Electrical data

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

Type	AC-570TGB/144TS	AC-575TGB/144TS	AC-580TGB/144TS	AC-585TGB/144TS
Nominal output	570 Wp	575 Wp	580 Wp	585 Wp
Nominal voltage U <sub>mpp</sub>	43.52 V	43.73 V	43.94 V	44.16 V
Nominal current I <sub>mpp</sub>	13.10 A	13.15 A	13.20 A	13.25 A
Short circuit current I <sub>sc</sub>	13.99 A	14.05 A	14.11 A	14.17 A
Open circuit voltag U <sub>oc</sub>	51.55 V	51.80 V	52.03 V	52.26 V
Module conversion efficiency	22.07 %	22.26 %	22.45 %	22.65 %

at BNPI test conditions: irradiance frontside 1000 W/m<sup>2</sup>, backside 135 W/m<sup>2</sup>, with spectrum AM 1.5 at a cell temperature of 25°C

Nominal output P <sub>mpp</sub>	628 Wp	634 Wp	640 Wp	645 Wp
Short circuit current I <sub>sc</sub>	15.43 A	15.49 A	15.56 A	15.62 A
Open circuit voltag U <sub>oc</sub>	51.55 V	51.80 V	52.03 V	52.26 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	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 <sup>2</sup>
Plug-in system	IP68, MC4-EVO 2, MC4-EVO 2A, JM608

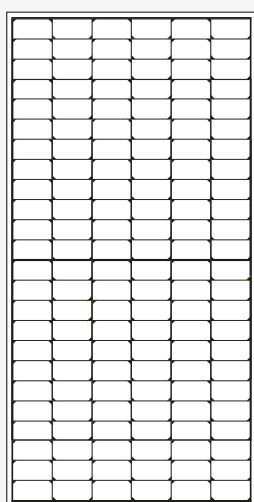
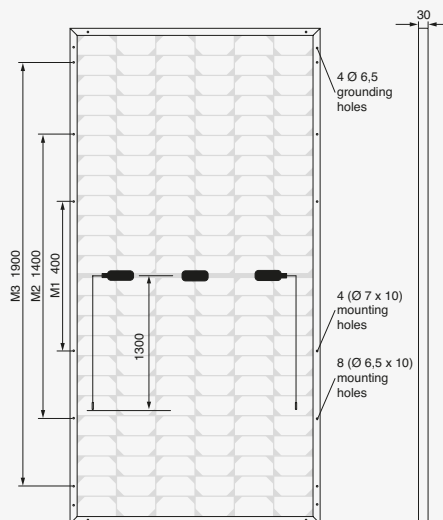


Fig. principle sketch



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
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-585TGB/144TS)

I-U characteristic curve	Current I <sub>pp</sub>	Voltage U <sub>pp</sub>
200 W/m <sup>2</sup>	2.71 A	42.50 V
400 W/m <sup>2</sup>	5.46 A	42.99 V
600 W/m <sup>2</sup>	8.16 A	43.33 V
800 W/m <sup>2</sup>	10.79 A	43.70 V
1000 W/m <sup>2</sup>	13.25 A	44.16 V

### Packaging

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

