

## AXIperfect GQ WB 460 - 470 Wp

High performance solar module  
96 halfcell, glass/glass, N-Type

### The advantages:






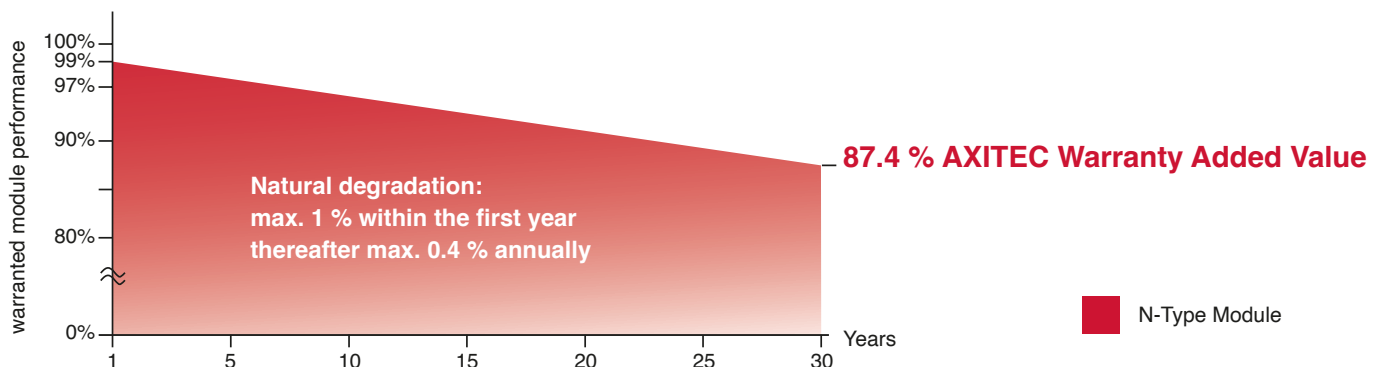
-  30 years Manufacturer's warranty and Performance guarantee
-  More performance through innovative N-Type Technology
-  PID reduced through glass/glass-Technology
-  Increased safety through improved fire protection
-  Positive power sorting from 0-5 Wp



Fig. similar 96TGMEN260422A-167/1

### Exclusive linear AXITEC high performance guarantee!



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### 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-460TGM/96WB	AC-465TGM/96WB	AC-470TGM/96WB
Nominal output	<b>460 Wp</b>	<b>465 Wp</b>	<b>470 Wp</b>
Nominal voltage U <sub>mpp</sub>	30.31 V	30.56 V	30.80 V
Nominal current I <sub>mpp</sub>	15.18 A	15.22 A	15.26 A
Short circuit current I <sub>sc</sub>	15.89 A	15.92 A	15.95 A
Open circuit voltag U <sub>oc</sub>	36.25 V	36.40 V	36.55 V
Module conversion efficiency	23.02 %	23.27 %	23.52 %

### Design

Frontside	2.0 mm semi tempered AR Solar glass
Backside	2.0 mm glass, cell spaces white
Cells	96 N-Type high efficiency cells
Frame	30 mm black aluminium frame

### Mechanical data

L x W x H	1762 x 1134 x 30 mm
Weight	24.3 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. 1.2 m, 4 mm <sup>2</sup>
Plug-in system	IP68, MC4-EVO 2A

### 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>	-0.24 %/K
Current I <sub>sc</sub>	0.046 %/K
Output P <sub>mpp</sub>	-0.28 %/K

### Low-light performance (Example for AC-470TGM/96WB)

I-U characteristic curve	Current I <sub>pp</sub>	Voltage U <sub>pp</sub>
200 W/m <sup>2</sup>	3.13 A	29.88 V
400 W/m <sup>2</sup>	6.31 A	30.23 V
600 W/m <sup>2</sup>	9.42 A	30.46 V
800 W/m <sup>2</sup>	12.46 A	30.72 V
1000 W/m <sup>2</sup>	15.30 A	31.05 V

### Packaging

Module pieces per pallet	36
Module pieces per HC-container	936

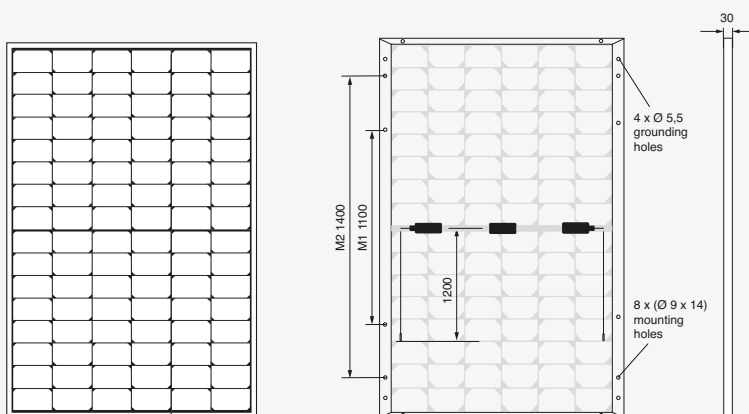


Fig. principle sketch

All dimensions in mm

