

AXIworldperfect GL WB 460 - 465 Wp

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

The advantages:






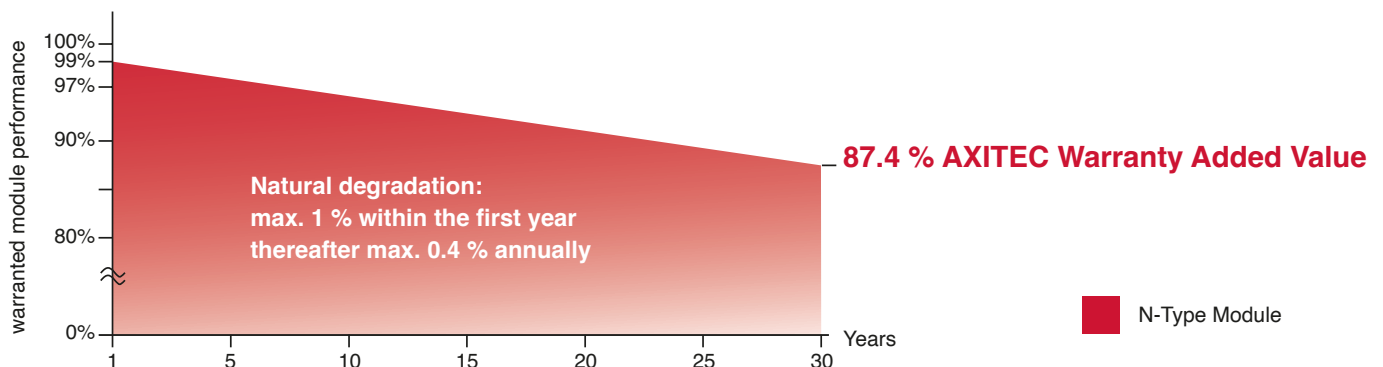
-  30 years Manufacturer's warranty and Performance guarantee
-  More performance through innovative N-Type-Technology
-  PID reduced through glass/glass-Technology
-  Increased safety through improved fire protection
-  Positive power sorting from 0-5 Wp



Fig. similar 108TGMLN260526A-77/1

Exclusive linear AXITEC high performance guarantee!



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Electrical data

at standard conditions (STC): irradiance 1000 W/m², spectrum AM 1.5 at a cell temperature of 25°C

Type	AC-460TGML/108WB	AC-465TGML/108WB			
Nominal output	460 Wp	465 Wp			
Nominal voltage U _{mpp}	33.61 V	33.86 V			
Nominal current I _{mpp}	13.69 A	13.74 A			
Short circuit current I _{sc}	14.36 A	14.42 A			
Open circuit voltag U _{oc}	40.57 V	40.84 V			
Module conversion efficiency	23.02 %	23.27 %			

Design

Frontside	1.6 mm semi tempered AR Solar glass
Backside	1.6 mm glass, cell spaces white
Cells	108 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	22.0 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 ²
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	25.0 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_{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-465TGML/108WB)

I-U characteristic curve	Current I _{pp}	Voltage U _{pp}
200 W/m ²	2.81 A	32.59 V
400 W/m ²	5.67 A	32.96 V
600 W/m ²	8.46 A	33.22 V
800 W/m ²	11.19 A	33.50 V
1000 W/m ²	13.74 A	33.86 V

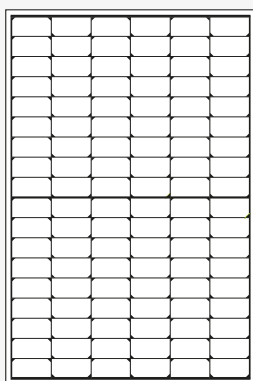
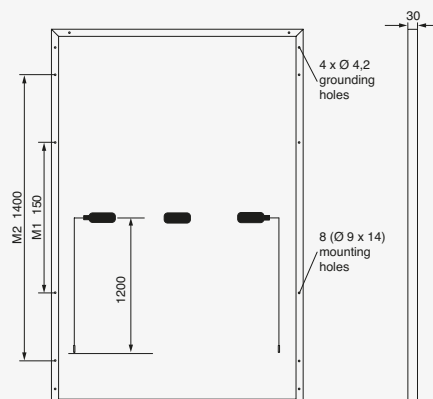


Fig. principle sketch



All dimensions in mm

