

AXIperfect FL WB 450 - 465 Wp

High performance solar module
108 halfcell, N-Type TOPCon

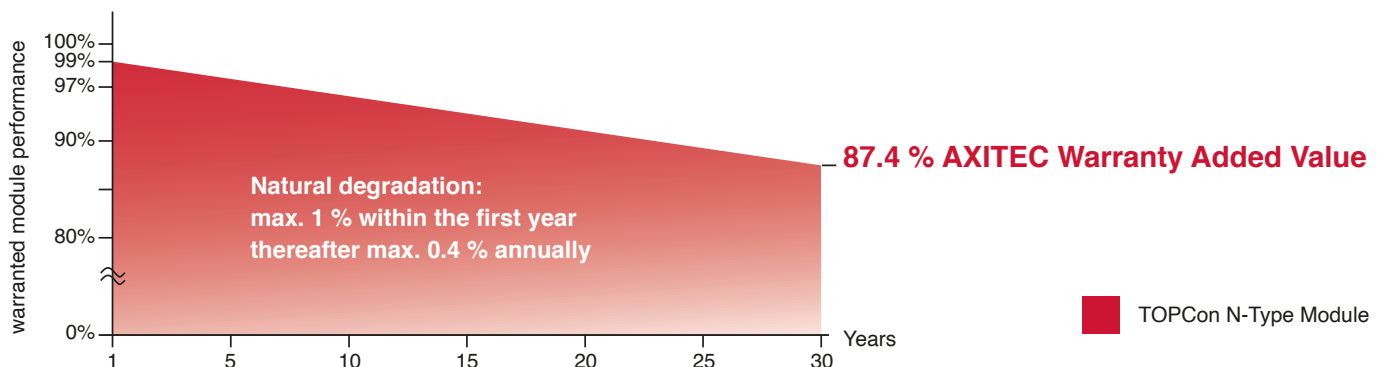
The advantages:

- 15** Years 15 years Manufacturer's warranty
- 30** Years 30 years Performance guarantee
- HC** High module performance through Half-Cut-technology and selected materials
- Wp** Positive power sorting from 0-5 Wp
- 100%** 100 % visual electroluminescence inspection in production
- IP 68** High quality junction box and connector systems
- TOP** More performance through innovative N-Type TOPCon-Technology



Fig. similar 108TFMLEN250806A

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-450TFML/108WB	AC-455TFML/108WB	AC-460TFML/108WB	AC-465TFML/108WB	
Nominal output	450 Wp	455 Wp	460 Wp	465 Wp	
Nominal voltage U _{mpp}	33.24 V	33.41 V	33.61 V	33.86 V	
Nominal current I _{mpp}	13.54 A	13.62 A	13.69 A	13.74 A	
Short circuit current I _{sc}	14.25 A	14.31 A	14.36 A	14.42 A	
Open circuit voltage U _{oc}	39.98 V	40.28 V	40.56 V	40.84 V	
Module conversion efficiency	22.52 %	22.77 %	23.02 %	23.27 %	

Design

Frontside	3.2 mm tempered AR Solar glass
Cells	108 N-Type TOPCon high efficiency cells
Backside	Composite film
Frame	30 mm black aluminium frame

Mechanical data

L x W x H	1762 x 1134 x 30 mm
Weight	22 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, JM608

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
Hail resistance	HW4 (Ø 40 mm, 27.5 m/s)

(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-465TFML/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

Packaging

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

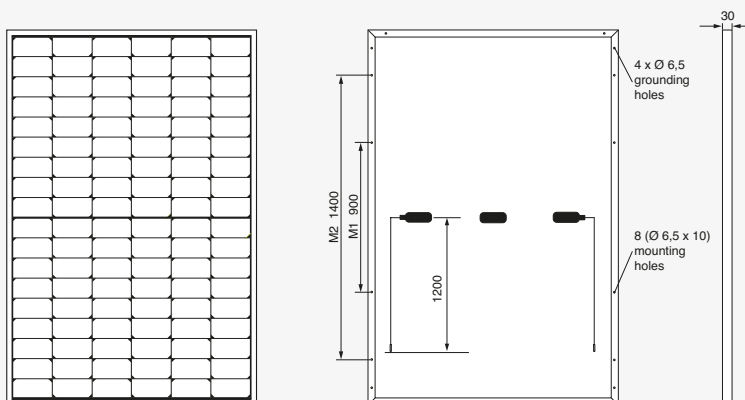


Fig. 1 principle sketch

All dimensions in mm

