

AXIblackperfect FXXL

400 - 425 Wp

High performance solar module
108 halfcell, N-Type TOPCon

30
YEARS
87.4%

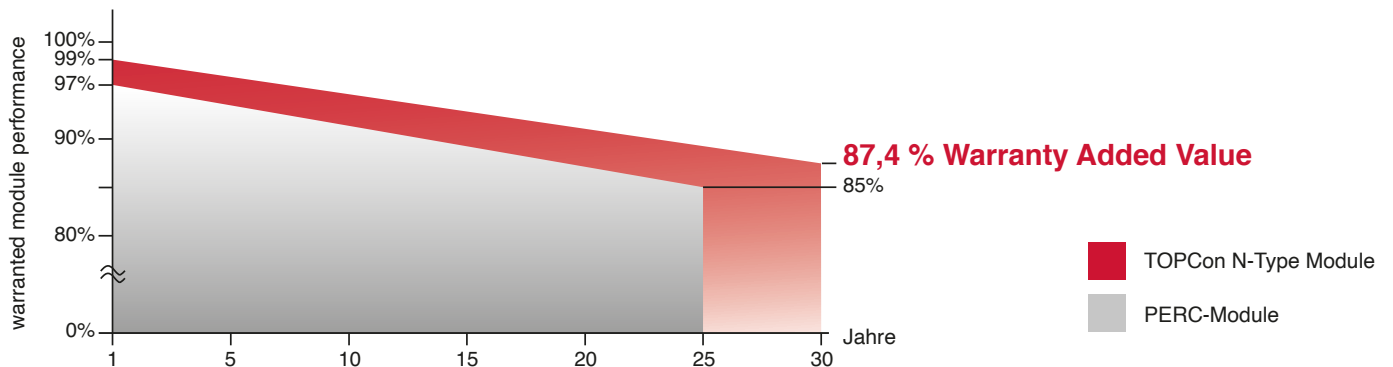
The advantages:

- 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** Guaranteed positive power tolerance from 0-5 Wp by individual measurement
- 100%** 100% visual electroluminescence inspection in production
- Frame** High stability due to innovative frame design
- IP 68** High quality junction box and connector systems
- TOP** More performance through innovative N-Type TOPCon-Technology



Fig. similar 08TFMEN230316A

Exclusive linear AXITEC high performance guarantee!



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

Type	Nominal output P _{mpp}	Nominal voltage U _{mpp}	Nominal current I _{mpp}	Short circuit current I _{sc}	Open circuit voltage U _{oc}	Module conversion efficiency
AC-400TFM/108BB	400 Wp	31.08 V	12.88 A	13.73 A	37.10 V	20.48 %
AC-405TFM/108BB	405 Wp	31.10 V	13.10 A	13.81 A	37.30 V	20.74 %
AC-410TFM/108BB	410 Wp	31.13 V	13.18 A	13.91 A	37.73 V	21.00 %
AC-415TFM/108BB	415 Wp	31.32 V	13.26 A	13.99 A	37.92 V	21.25 %
AC-420TFM/108BB	420 Wp	31.51 V	13.33 A	14.07 A	38.11 V	21.51 %
AC-425TFM/108BB	425 Wp	31.70 V	13.41 A	14.15 A	38.30 V	21.76 %

Design

Frontside	3.2 mm hardened, low-reflection white 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	1722 x 1134 x 30 mm
Weight	21.8 kg with frame

Mechanical load

Design load (pressure/suction)	3600 Pa / 1600 Pa
Test load (pressure/suction)	5400 Pa / 2400 Pa

Power connection

Socket	Protection Class IP68
Wire	approx. 1.2 m, 4 mm ²
Plug-in system	Plug/socket IP68, Stäubli EVO2 / EVO2 pluggable

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

(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}	0.047 %/K
Output P _{mpp}	-0.31 %/K

Low-light performance

 (Example for AC-425TFM/108BB)

I-U characteristic curve	Current I _{pp}	Voltage U _{pp}
200 W/m ²	2.74 A	30.51 V
400 W/m ²	5.53 A	30.86 V
600 W/m ²	8.26 A	31.10 V
800 W/m ²	10.92 A	31.37 V
1000 W/m ²	13.41 A	31.70 V

Packaging

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

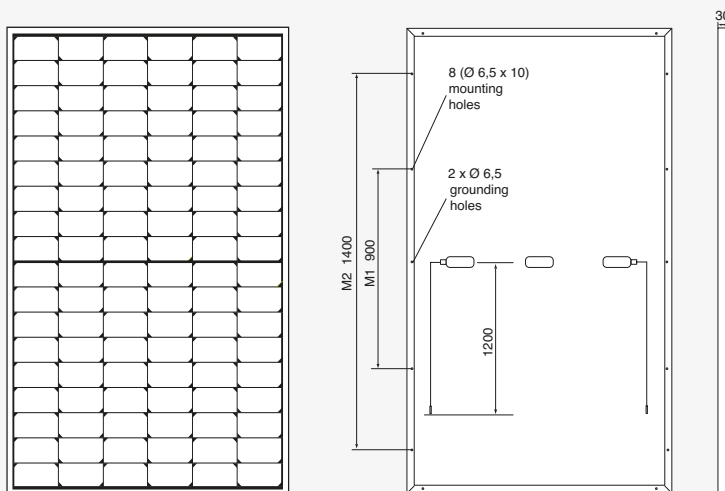


Fig. principle sketch

All dimensions in mm

