

AXIworldblackperfect FXXL

410 - 430 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



High module performance through Half-Cut-technology and selected materials



Guaranteed positive power tolerance from 0-5 Wp by individual measurement



100% visual electroluminescence inspection in production



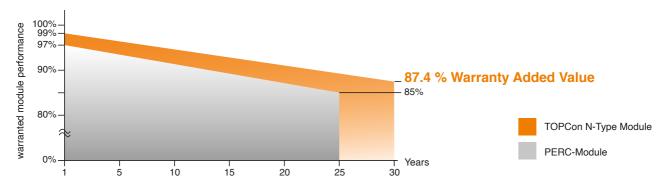
High quality junction box and connector systems



More performance through innovative N-Type TOPCon-Technology



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)

Туре	Nominal output Pmpp	Nominal voltage Umpp	Nominal current Impp	Short circuit current Isc	Open circuit voltage Uoc	Module conversion efficiency
AC-410TFM/108BB	410 Wp	31.13 V	13.18 A	13.91 A	37.73 V	21.01 %
AC-415TFM/108BB	415 Wp	31.32 V	13.26 A	13.99 A	37.92 V	21.27 %
AC-420TFM/108BB	420 Wp	31.51 V	13.33 A	14.07 A	38.11 V	21.53 %
AC-425TFM/108BB	425 Wp	31.70 V	13.41 A	14.15 A	38.30 V	21.76 %
AC-430TFM/108BB	430 Wp	31.88 V	13.49 A	14.23 A	38.49 V	22.04 %

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 1133 x 30 mm Weight 21.5 kg with frame

Mechanical load

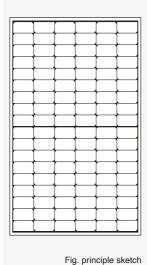
Design load (pressure/suction) 3600 Pa / 1600 Pa Test load (pressure/suction) 5400 Pa / 2400 Pa

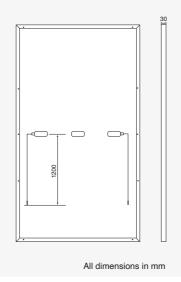
Power connection

Socket Protection Class IP68, 3 bypass diodes

Wire approx. 1.2 m. 4 mm²

Plug-in system IP68. MC4-EVO 2. 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

(No external voltages greater than Uoc 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 Uoc
 -0.26 %/K

 Current Isc
 0.047 %/K

 Output Pmpp
 -0.31 %/K

Low-light performance (Example for AC-430TFM/108BB)

-U characteristic curve	Current Ipp	Voltage Upp
200 W/m ²	2.76 A	30.68 V
400 W/m ²	5.56 A	31.04 V
600 W/m ²	8.31 A	31.28 V
800 W/m ²	10.99 A	31.55 V
1000 W/m ²	13.49 A	31.88 V

