

# AXIworldblackperfect FXXL

# 410 - 425 Wp

High performance solar module 108 halfcell. N-Type TOPCon

### The advantages:

15 Years

15 years Manufacturer's warranty



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



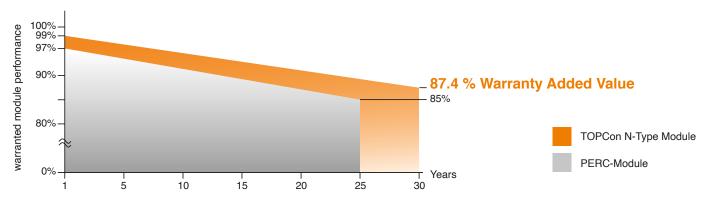
High quality junction box and connector systems



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/m<sup>2</sup>. spectrum AM 1.5 at a cell temperature of 25°C)

Type	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 %

#### 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

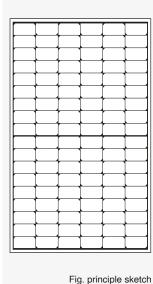
#### Mechanical load

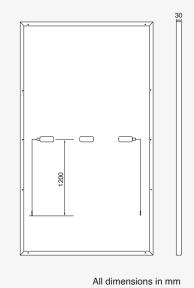
Design load (pressure/suction) 3600 Pa / 1600 Pa Test load (pressure/suction) 5400 Pa / 2400 Pa

#### **Power connection**

Socket Protection Class IP68
Wire approx. 1.2 m. 4 mm²

Plug-in system Plug/socket IP68. Stäubli EVO2





Limit values

System voltage 1500 VDC NOCT (nominal operating cell temperature)\*  $45^{\circ}\text{C}$  +/-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-425TFM/108BB)

I-U characteristic curve	Current lpp	Voltage Upp
200 W/m <sup>2</sup>	2.74 A	30.51 V
400 W/m <sup>2</sup>	5.50 A	30.67 V
600 W/m <sup>2</sup>	8.21 A	30.91 V
800 W/m <sup>2</sup>	10.92 A	31.37 V
1000 W/m <sup>2</sup>	13.41 A	31.70 V

