

# AXIblackperfect FXXL

# 400 - 425 Wp

High performance solar module 108 halfcell, N-Type TOPCon

## The advantages:

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 stability due to innovative frame design



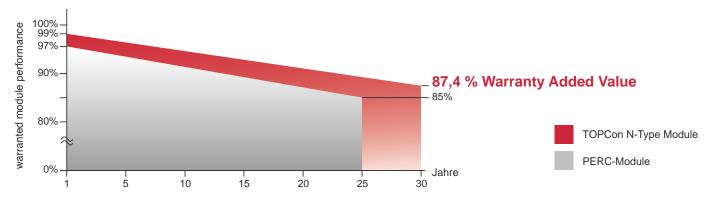
High quality junction box and connector systems



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-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

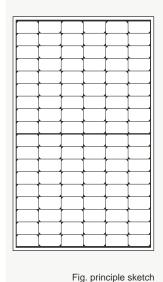
### **Mechanical load**

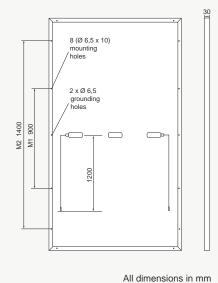
Design load (pressure/suction) 3600 Pa / 1600 Pa Test load (pressure/suction) 5400 Pa / 2400 Pa

#### **Power connection**

 $\begin{tabular}{lll} Socket & Protection Class IP68 \\ Wire & approx. 1.2 m, 4 mm^2 \end{tabular}$ 

Plug-in system Plug/socket IP68, Stäubli EVO2 / EVO2 pluggable





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 Ipp	Voltage Upp
200 W/m <sup>2</sup>	2.74 A	30.51 V
400 W/m <sup>2</sup>	5.53 A	30.86 V
600 W/m <sup>2</sup>	8.26 A	31.10 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

#### Packaging

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

