

## AXIbiperfect FXXL TS

### 560 - 570 Wp

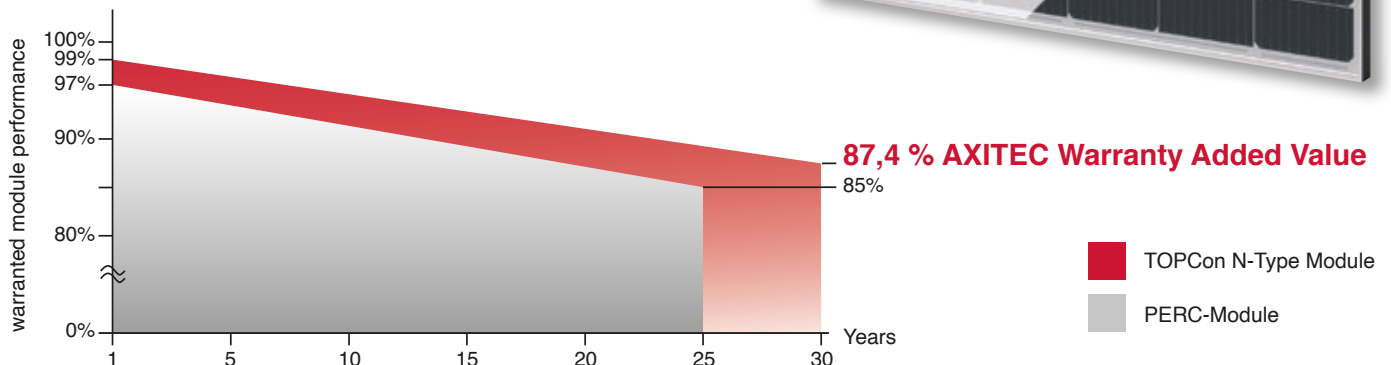
High performance bifacial solar module  
144 halfcell, N-Type TOPCon

#### The advantages:

- 15** Years 15 years Manufacturer's warranty
- 30** Years 30 years Performance guarantee
- +30%** Up to 30 % more power output by Bifacial-Technology
- TOP** More performance through innovative N-Type TOPCon-Technology
- + Wp** Guaranteed positive power tolerance from 0-5 Wp by individual measurement
- 100%** 100 % visual electroluminescence inspection in production



#### Exclusive linear AXITEC high performance guarantee!



## AXIbiperfect FXXL TS 560 - 570 Wp

**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	AC-560TFB/144TS	AC-565TFB/144TS	AC-570TFB/144TS
Nominal output	<b>560 Wp</b>	<b>565 Wp</b>	<b>570 Wp</b>
Nominal voltage U <sub>mpp</sub>	42.40 V	42.60 V	42.80 V
Nominal current I <sub>mpp</sub>	13.21 A	13.27 A	13.32 A
Short circuit current I <sub>sc</sub>	13.97 A	14.03 A	14.08 A
Open circuit voltag U <sub>oc</sub>	50.60 V	50.80 V	51.00 V
Module conversion efficiency	21.68 %	21.87 %	22.07 %

### Bifacial output - Backside Power gain

10% Power output	616.00 Wp	621.50 Wp	627.00 Wp
Module Efficiency	23.85 %	24.06 %	24.27 %
20% Power output	672.00 Wp	678.00 Wp	684.00 Wp
Module Efficiency	26.01 %	26.25 %	26.48 %
30% Power output	728.00 Wp	734.50 Wp	741.00 Wp
Module Efficiency	28.18 %	28.43 %	28.68 %

### Design

Frontside	3.2 mm hardened, low-reflection white glass
Backside	Composite film transparent
Cells	144 N-Type TOPCon bifacial high efficiency cells
Frame	35 mm silver aluminium frame

### Mechanical data

L x W x H	2278 x 1134 x 35 mm
Weight	28.5 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
Wire	approx. 1.3 m, 4 mm <sup>2</sup>
Plug-in system	Plug/socket IP68, JM608

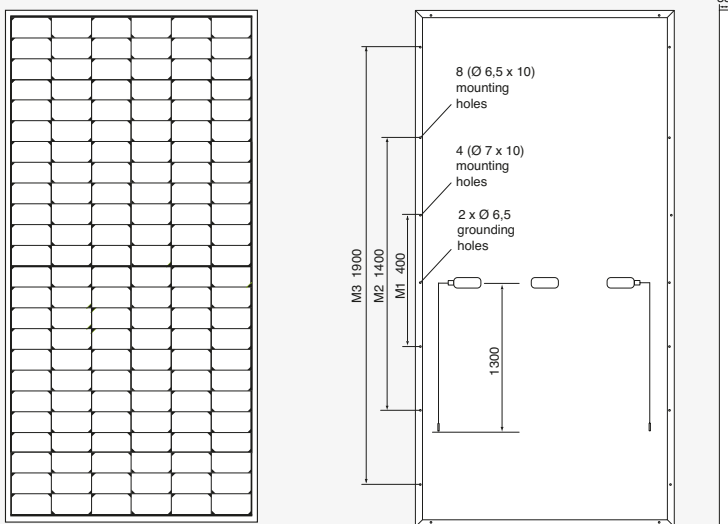


Fig. principle sketch

All dimensions in mm

### 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

Bifaciality 80 % ± 5 %

(No external voltages greater than U<sub>oc</sub> may be applied to the module)

\* NOCT, irradiance 800 W/m<sup>2</sup>; AM 1.5; wind speed 1 m/s; Temperature 20°C

### Temperature coefficients

Voltage U <sub>oc</sub>	-0.26 %/K
Current I <sub>sc</sub>	0.046 %/K
Output P <sub>mpp</sub>	-0.31 %/K

### Low-light performance (Example for AC-570TFB/144TS)

I-U characteristic curve	Current I <sub>pp</sub>	Voltage U <sub>pp</sub>
200 W/m <sup>2</sup>	2.72 A	41.19 V
400 W/m <sup>2</sup>	5.49 A	41.67 V
600 W/m <sup>2</sup>	8.21 A	41.99 V
800 W/m <sup>2</sup>	10.85 A	42.35 V
1000 W/m <sup>2</sup>	13.32 A	42.80 V

### Packaging

Module pieces per pallet	31
Module pieces per HC-container	620

